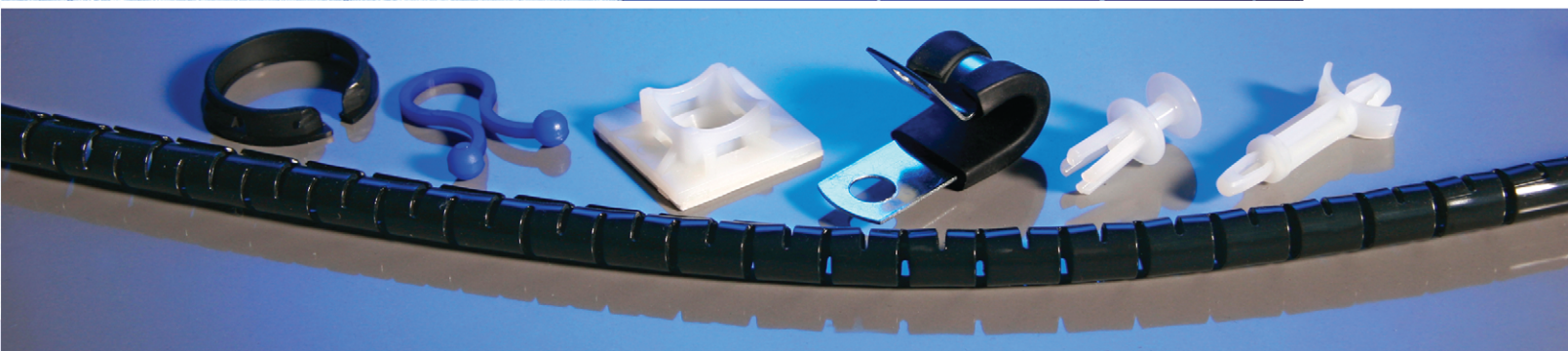




GLOBAL PRESENCE, LOCAL SUPPORT



# www.richco-inc.com

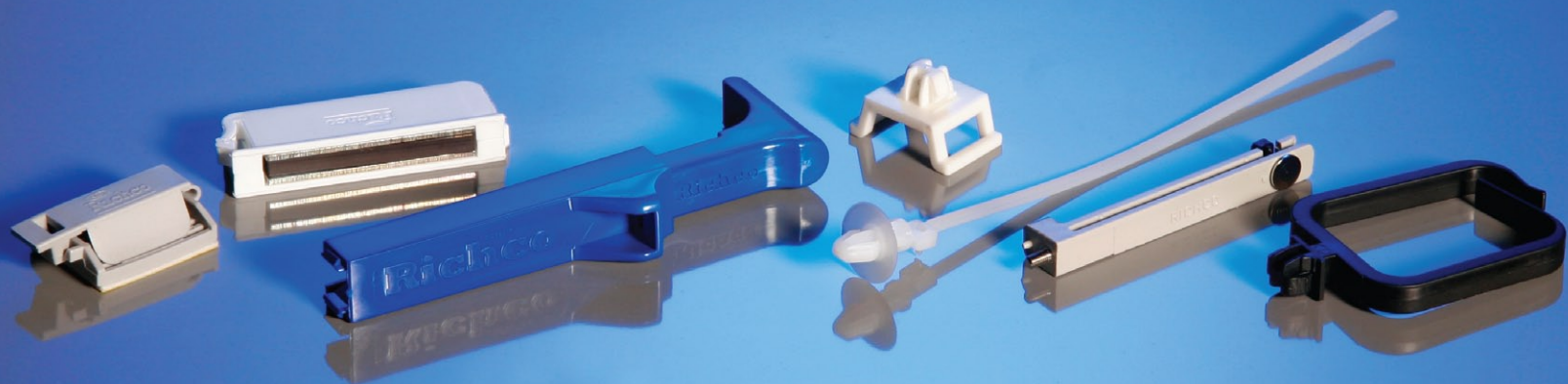


Global Presence,  
Local Support



**NEW  
website**

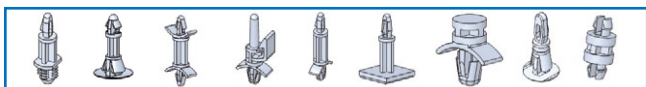
- User friendly interface and navigation
- Extensive NEW products featured
- Quick part search and cross reference
- Interactive online catalog
- Over 15,000 available catalog parts online
- MORE product details and information
- Access and download 3D models
- Site content in multiple languages
- Frequently asked questions
- Distributor/sales office locator



Global Presence,  
Local Support



## Circuit Board Hardware ..... 1-34



Snap-in, screw-mount & adhesive supports;  
spacers & stand-offs

**A**

## Card Guides & Pullers ..... 35-45



Vertical, horizontal & tensioning PC board  
rack card guides; pullers & ejectors

**B**

## Rivets, Screws, Washers & Nuts ..... 46-60



Snap-in, push, blind hole & unscrewing rivets;  
plastic screws, nuts & washers

**C**

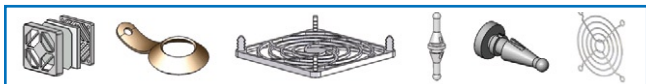
## Motion Control, Bumpers & Feet ..... 61-75



Motion & vibration dampers; bumpers & feet

**D**

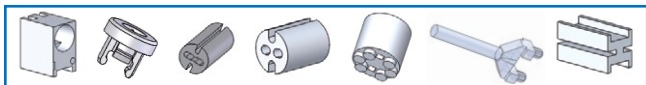
## Fan Accessories ..... 76-81



Screens, guards, filters, and other  
accessories for fans

**E**

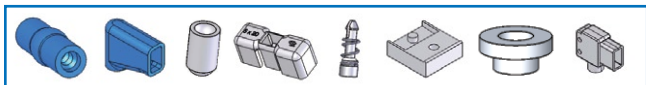
## LED Hardware ..... 82-86



LED mounting and protection hardware;  
light pipes

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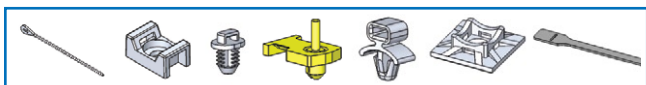
## Insulators ..... 87-93



Fuse mounting hardware, transistor  
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**G**

## Cable Ties & Accessories ..... 94-116



Standard, push mount, screw mount,  
releasable, hook & loop cable ties; tie holders

**H**

## Cable Management ..... 117-167



Clips, clamps, wire routing accessories;  
wraps & ducts

**I**

## Fiber Management ..... 168-190



Fiber routing and protection accessories

**J**

## Grommets, Bushings & Cable Glands ..... 191-203



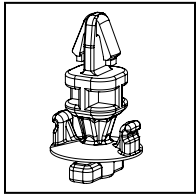
Metal & plastic grommets strips & plug-in  
grommets; bushings; cable glands

**K**

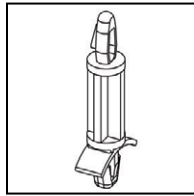
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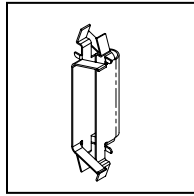
# CIRCUIT BOARD HARDWARE



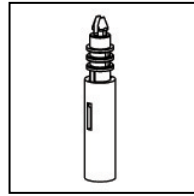
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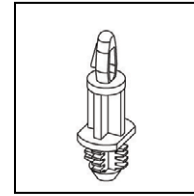
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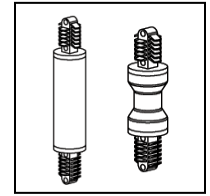
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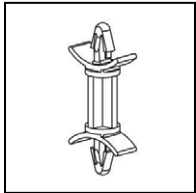
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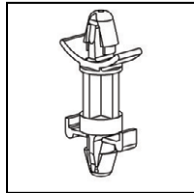
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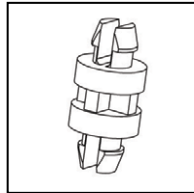
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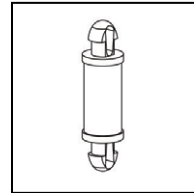
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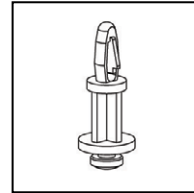
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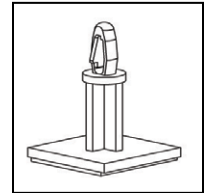
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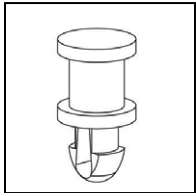
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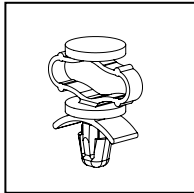
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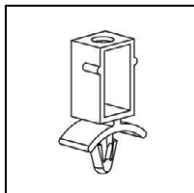
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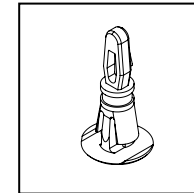
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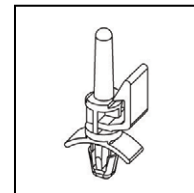
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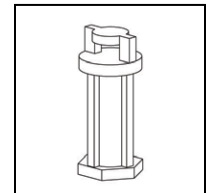
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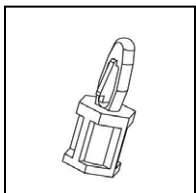
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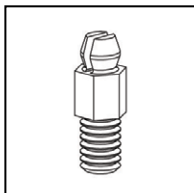
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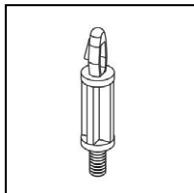
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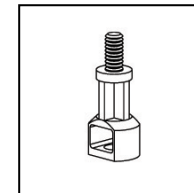
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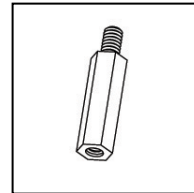
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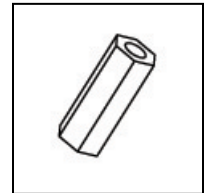
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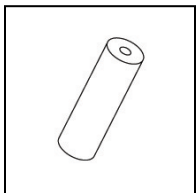
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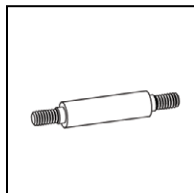
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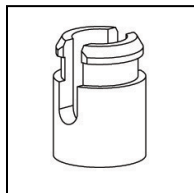
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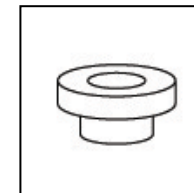
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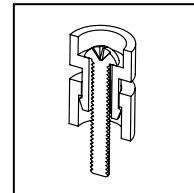
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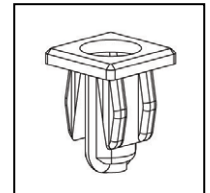
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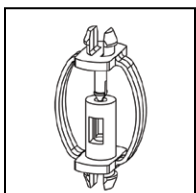
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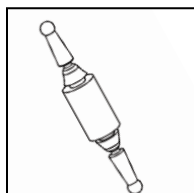
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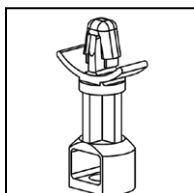
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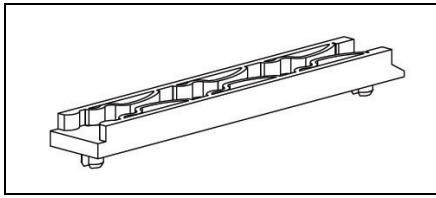
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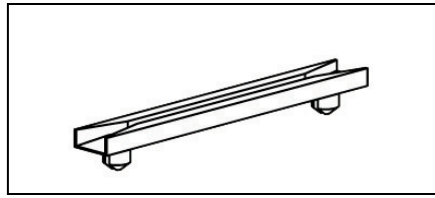
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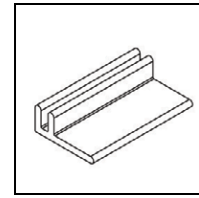
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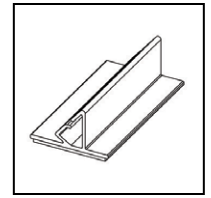
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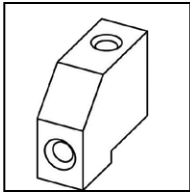
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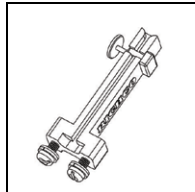
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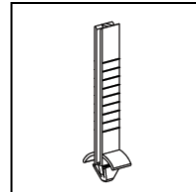
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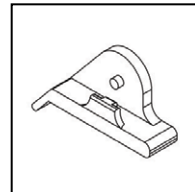
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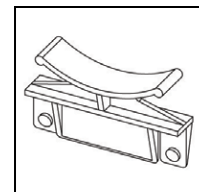
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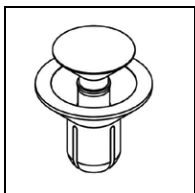


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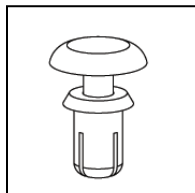


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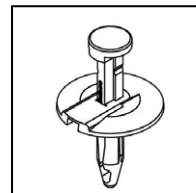
## RIVETS, SCREWS, WASHERS & NUTS



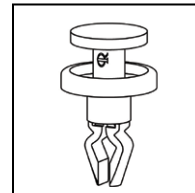
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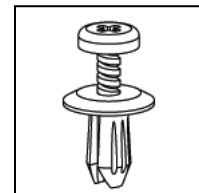
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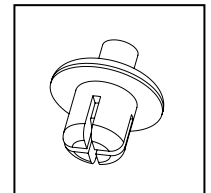
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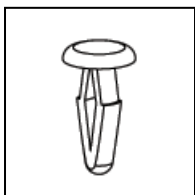
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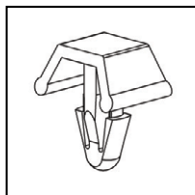
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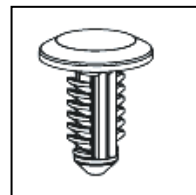
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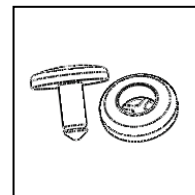
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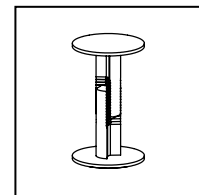
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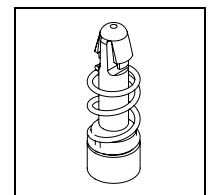
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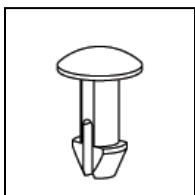
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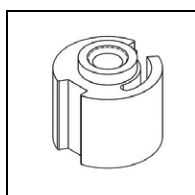
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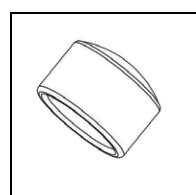
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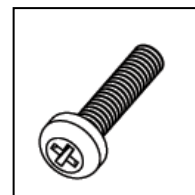
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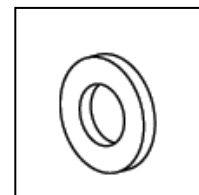
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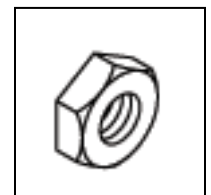
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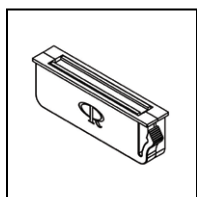
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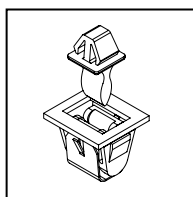
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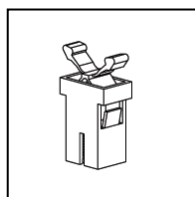
# MOTION CONTROL, BUMPERS & FEET



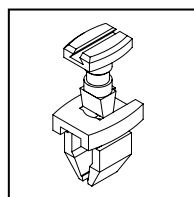
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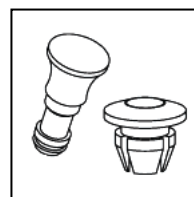
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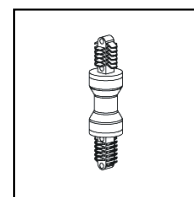
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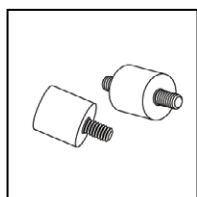
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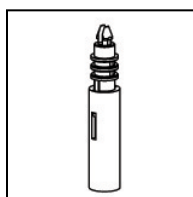
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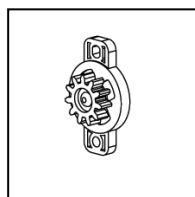
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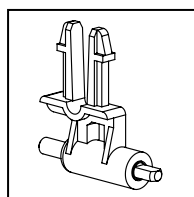
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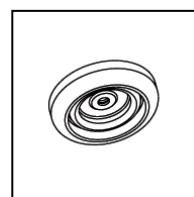
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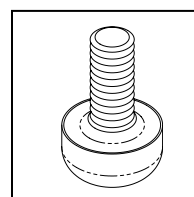
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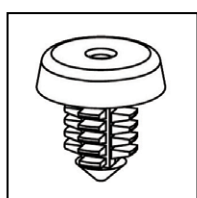
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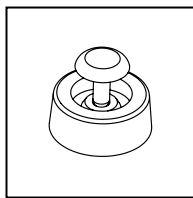
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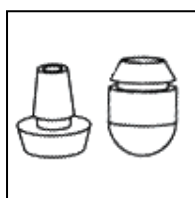
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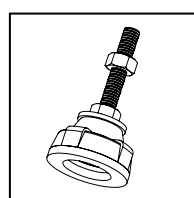
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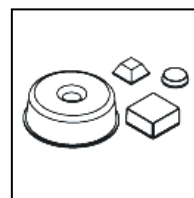
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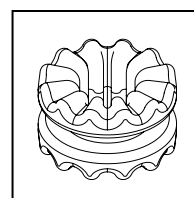
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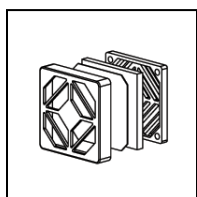


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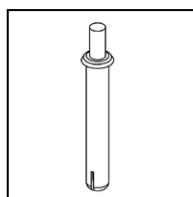


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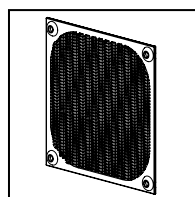
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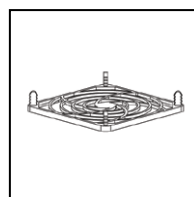
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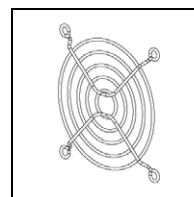
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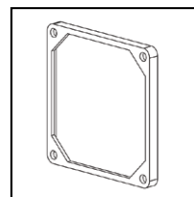
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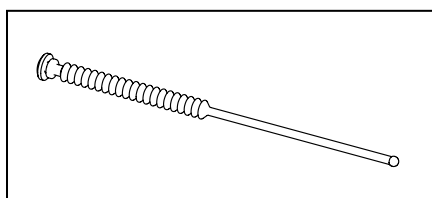
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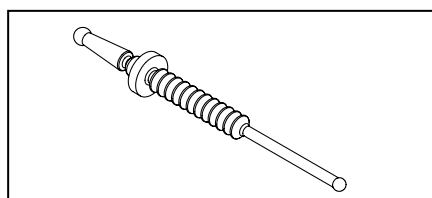
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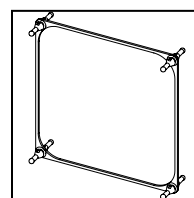
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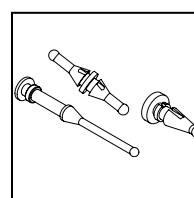
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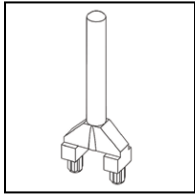


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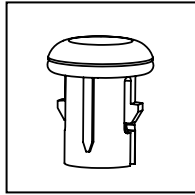


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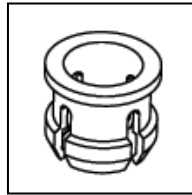
## LED HARDWARE



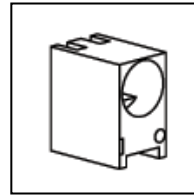
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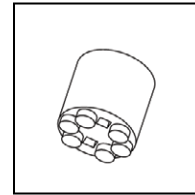
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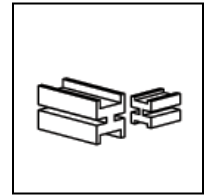
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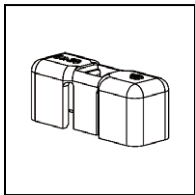


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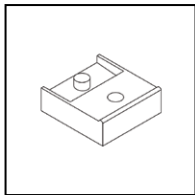


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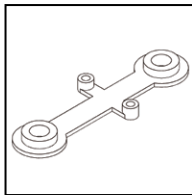
## INSULATORS



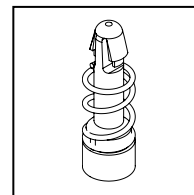
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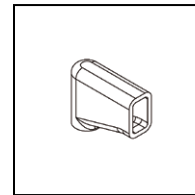
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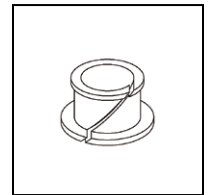
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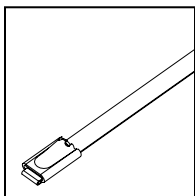


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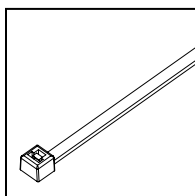


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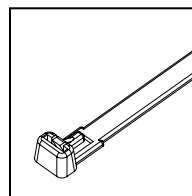
## CABLE TIES & ACCESSORIES



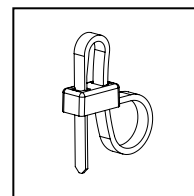
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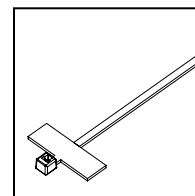
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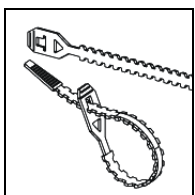
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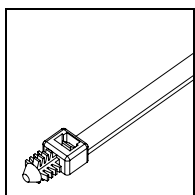
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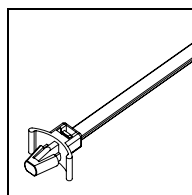
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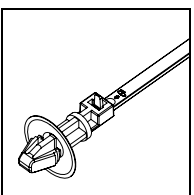
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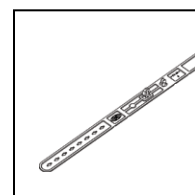
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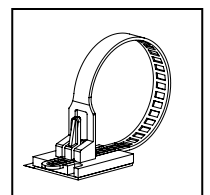
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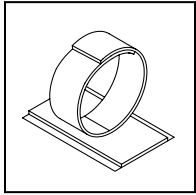


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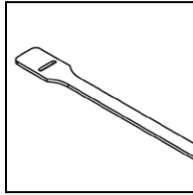


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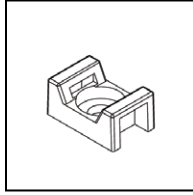
## CABLE TIES & ACCESSORIES



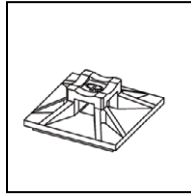
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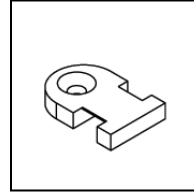
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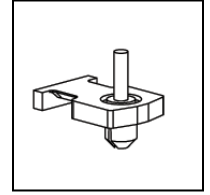
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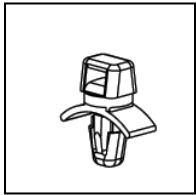
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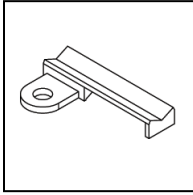
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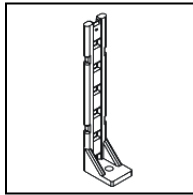
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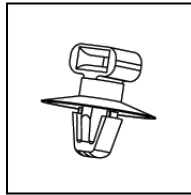
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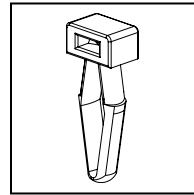
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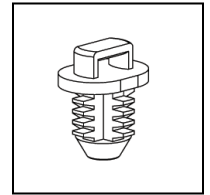
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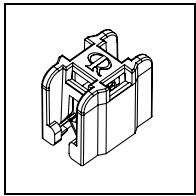
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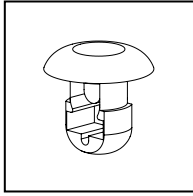
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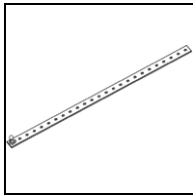
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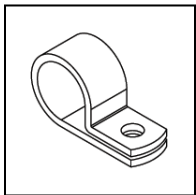


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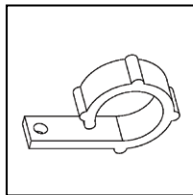


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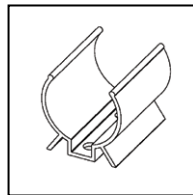
## CABLE MANAGEMENT



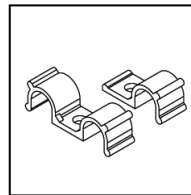
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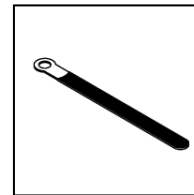
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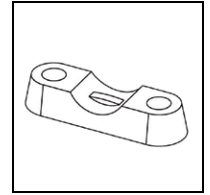
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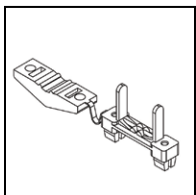
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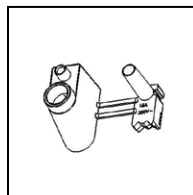
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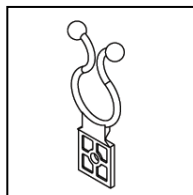
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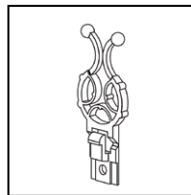
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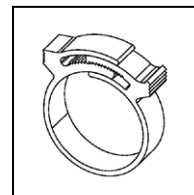
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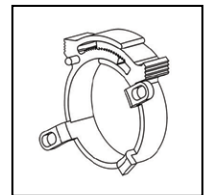
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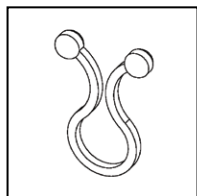


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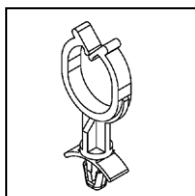


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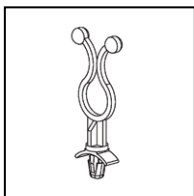




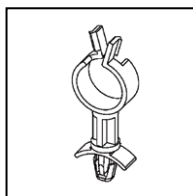
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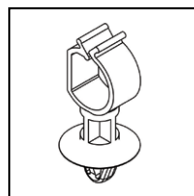
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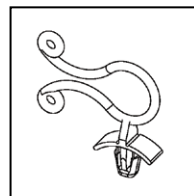
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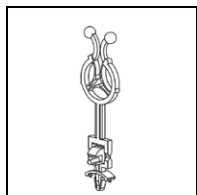
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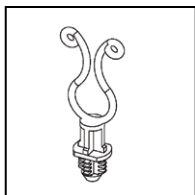
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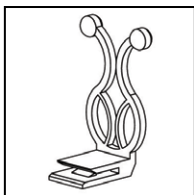
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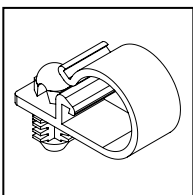
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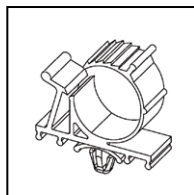
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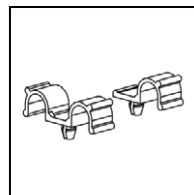
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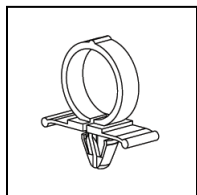
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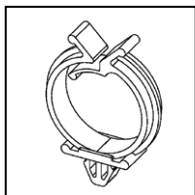
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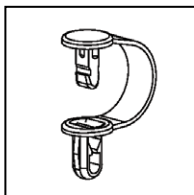
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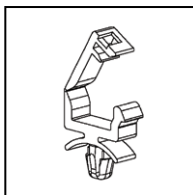
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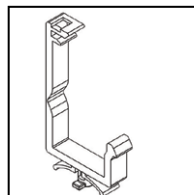
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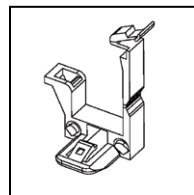
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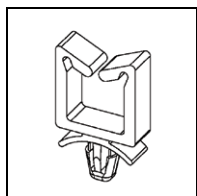
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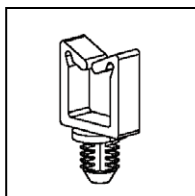
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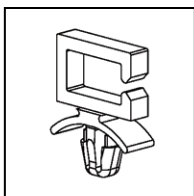
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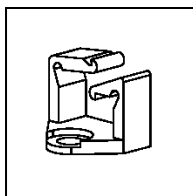
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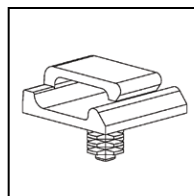
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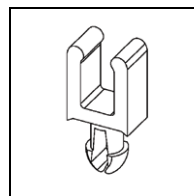
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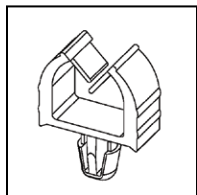
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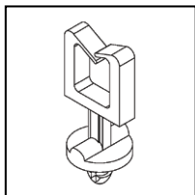
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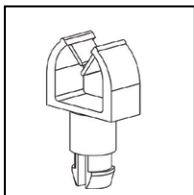
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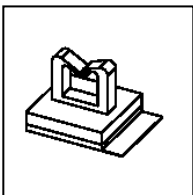
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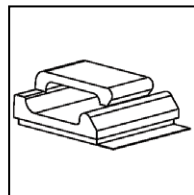
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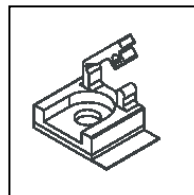
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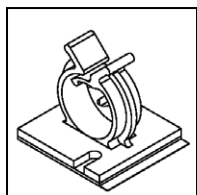
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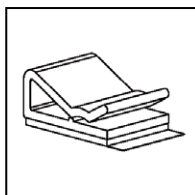
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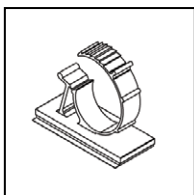
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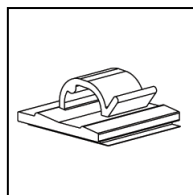
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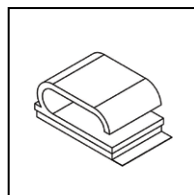
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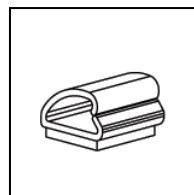
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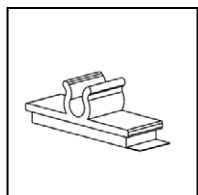


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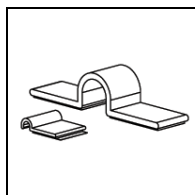


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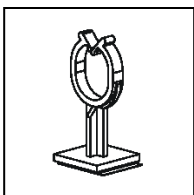
# CABLE MANAGEMENT



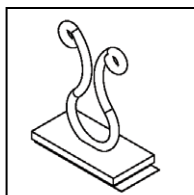
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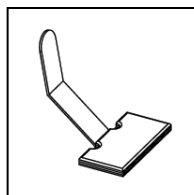
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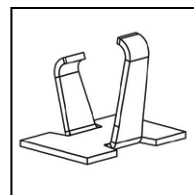
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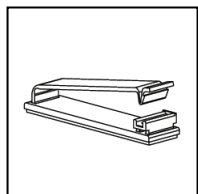
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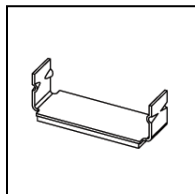
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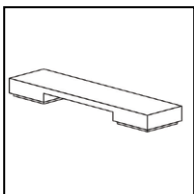
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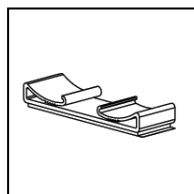
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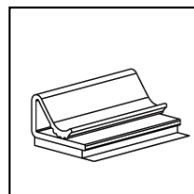
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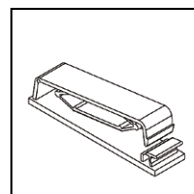
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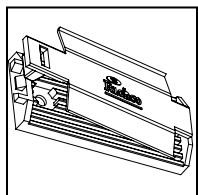
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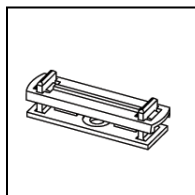
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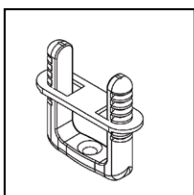
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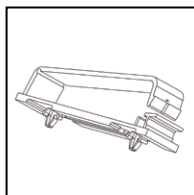
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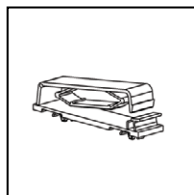
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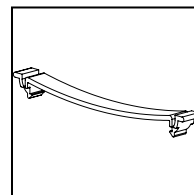
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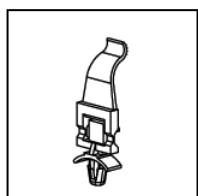
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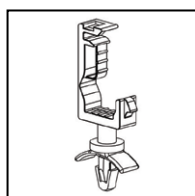
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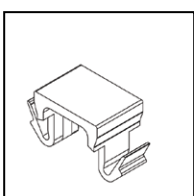
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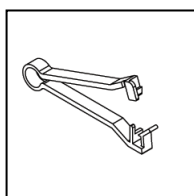
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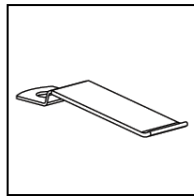
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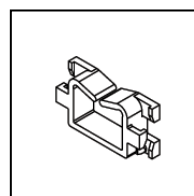
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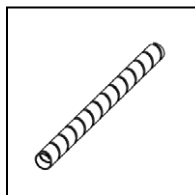
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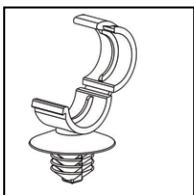
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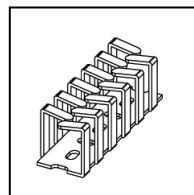
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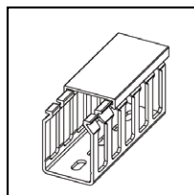
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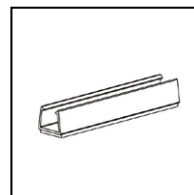
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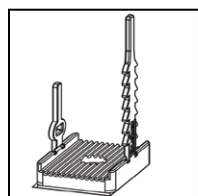
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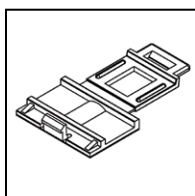
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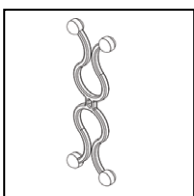
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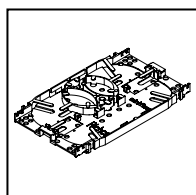
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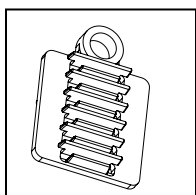
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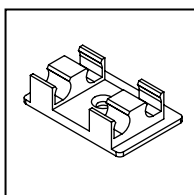
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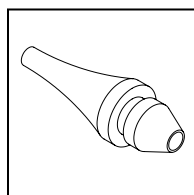
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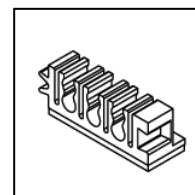
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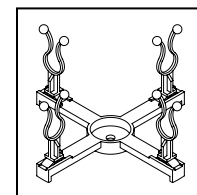
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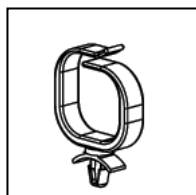
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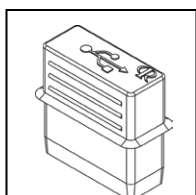
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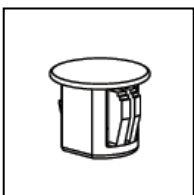
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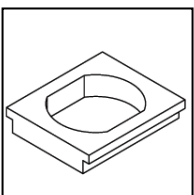
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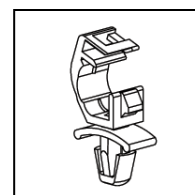
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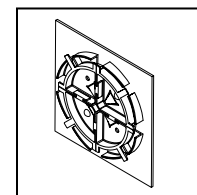
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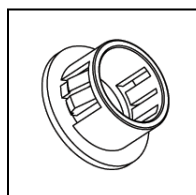


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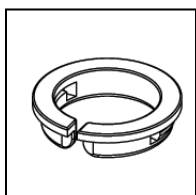


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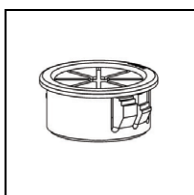
## GROMMETS, BUSHINGS & CABLE GLANDS



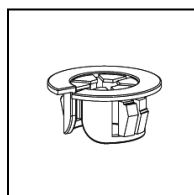
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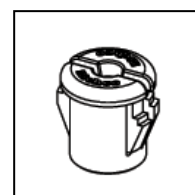
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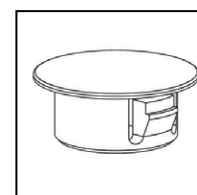
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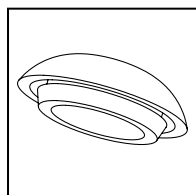
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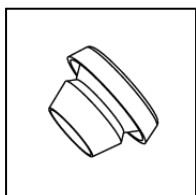
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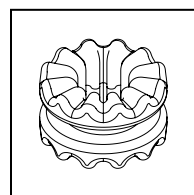
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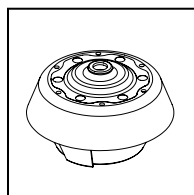
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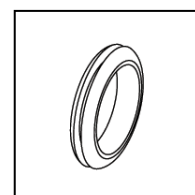
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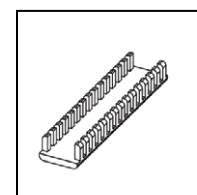
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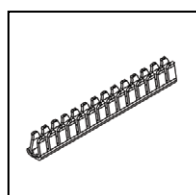
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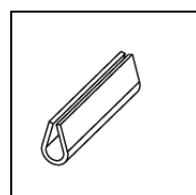
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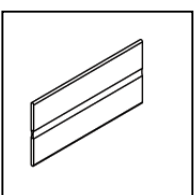
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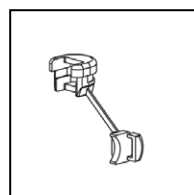
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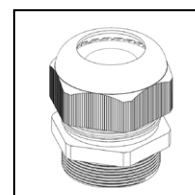
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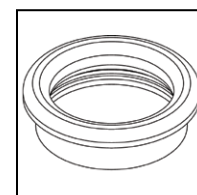
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# GENERAL INFORMATION

## Certifications & Standards

- Richco Manufacturer UL® No. E61981 (N)
- United States Department of Defense Cage Code; 06915
- Richco Inc., Harvard, IL, USA: ISO-9001 & Sony Green Partner
- Richco International Co. Ltd., Gravesend, England: ISO-9001, ISO-14001, and Investors in People
- Richco Española S.L.U., Barcelona, Spain: ISO-9001, TS-16949, ISO-14001, OHSAS-18001 & Sony Green Partner
- Richco Xiamen Precision Fasteners Co. Ltd., Xiamen, P.R.C.: ISO-9001, ISO-14001 & Sony Green Partner

## Specifications & Tolerances

Specifications in this catalog are for reference only. Richco reserves the right to make changes in the specifications of its proprietary products at any time without notice. See engineering drawings on our website at [www.richco-inc.com](http://www.richco-inc.com) for the latest designs, tolerances, downloadable 3D models and material information.

## Nylon Color

All products which are manufactured in UL94 V2 Nylon 6/6, RMS-01 or UL94 V0 Nylon 6/6, RMS-19 are natural color as standard unless otherwise noted. These materials can be colored to match your requirements.

## Nylon Storage Guidelines

Most Richco products are manufactured in high-quality Nylon 6/6. Nylon is a hygroscopic material, which means that it emits and absorbs moisture. Richco Nylon products are manufactured and packaged with the appropriate level of moisture to achieve optimal usage in application. The packaging used by Richco ensures that the moisture content of the products remains constant. Therefore, it is important to store the products in their original packaging to preserve their quality.

## Nylon & Adhesive Ideal Storage Conditions

Original, unopened bags at 73°F (23°C) and 50% Relative Humidity.

## Nylon & Adhesive Shelf Life

If products are kept under the Ideal Storage Conditions above, shelf life is 1 year from date of shipment.

## Release Tab

Most Richco adhesive-mount products have a liner release tab to make removal of the adhesive liner quick & easy. This release tab could exist on any side of a Richco product.

## Raw Material Specifications (RMS)

Richco classifies all raw materials used in our products with an RMS identification number. The RMS number can be found in the product table in each series. More information on the materials is available at the back of this catalog in the RMS Specifications section or visit [www.richco-inc.com](http://www.richco-inc.com).

## Restriction of Hazardous Substances (RoHS)

EU Directive 2002/95/EC restricts the use of 6 substances in electrical and electronic equipment. To determine if a Richco material is RoHS Compliant, please see the RMS Specifications at the back of this catalog or visit [www.richco-inc.com](http://www.richco-inc.com) to download a RoHS Certification Letter.

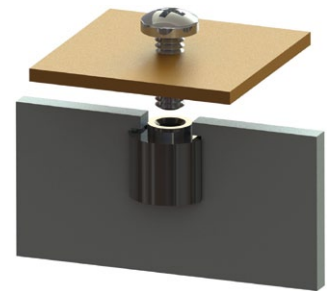
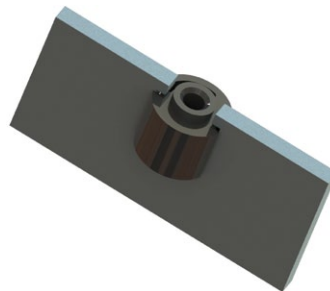
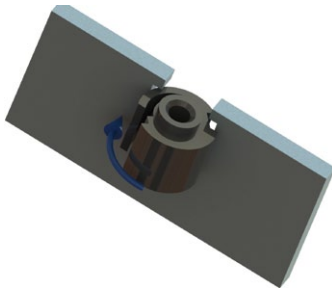
## Waste Electrical and Electronic Equipment (WEEE)

European Parliament Directive 2002/96/EC, establishes recovery, reuse, and recycling targets for each of ten categories of WEEE waste. Most Richco products support the WEEE Directive by allowing easy removal from their applications at End of Life.

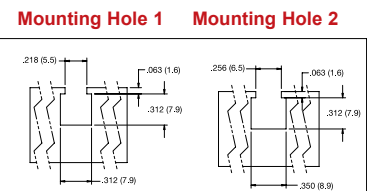
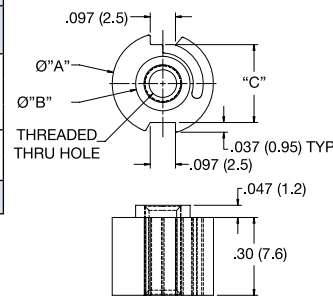


## SEI Sheet Edge Insert

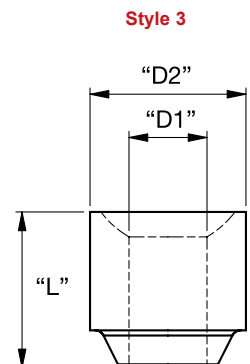
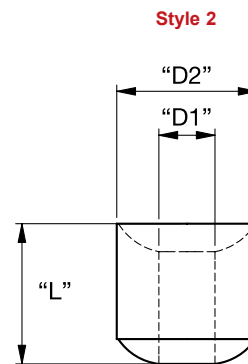
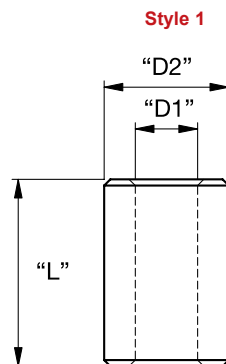
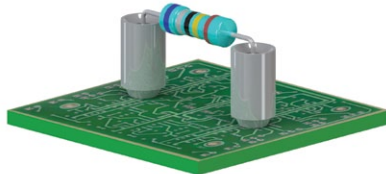
**NEW**



| Material: UL94 V-2 Nylon 6/6, RMS-01    Color: Black |            |           |           |             |                         |               |
|------------------------------------------------------|------------|-----------|-----------|-------------|-------------------------|---------------|
| Standard Pack: 1,000 per bag                         |            |           |           |             |                         |               |
| Part No.                                             | "A" Ø      | "B" Ø     | "C"       | Thread Type | Panel Thickness         | Mounting Hole |
| SEI-1                                                | .39 (9.9)  | .21 (5.3) | .30 (7.6) | #6-32 UNC   | .050 - .095 (1.27-2.41) | 1             |
| SEI-2                                                |            |           |           | M4          | .050 - .091 (1.27-2.3)  |               |
| SEI-3                                                |            |           |           | M3          |                         |               |
| SEI-4                                                | .43 (10.9) | .25 (6.3) | .34 (8.6) | M5          | .050 - .095 (1.27-2.41) | 2             |
| SEI-5                                                |            |           |           | M6          |                         |               |
| Screwdriver required for installation                |            |           |           |             |                         |               |



## CER Ceramic Beads



### Features

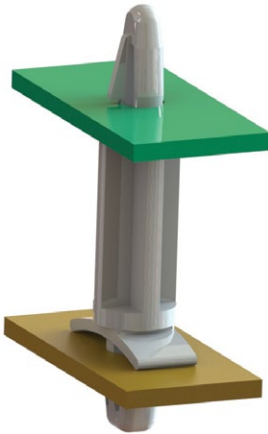
- Max. operating temperature: 1832°F (1000°C)
- Parts are stackable as seen in application photo

| Material: Steatite C220 Ceramic, RMS-170 Color: Natural |            |            |            | Standard Pack: 1,000 per bag |  |
|---------------------------------------------------------|------------|------------|------------|------------------------------|--|
| Part No.                                                | "D1"       | "D2"       | "L"        | Style                        |  |
| CER-1                                                   | .079 (2)   | .158 (4)   | .237 (6)   | 1                            |  |
| CER-2                                                   | .063 (1.6) | .178 (4.5) | .315 (8)   |                              |  |
| CER-3                                                   |            |            | .394 (10)  |                              |  |
| CER-4                                                   | .040 (1)   | .119 (3)   | .119 (3)   | 2                            |  |
| CER-5                                                   | .071 (1.8) | .178 (4.5) | .178 (4.5) |                              |  |
| CER-6                                                   | .040 (1)   | .119 (3)   | .197 (5)   | 3                            |  |
| CER-7                                                   | .098 (2.5) | .197 (5)   |            |                              |  |

A

## LCBS

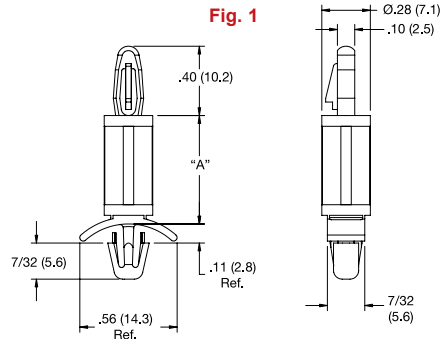
### Locking Circuit Board Support



## LCBS

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 1

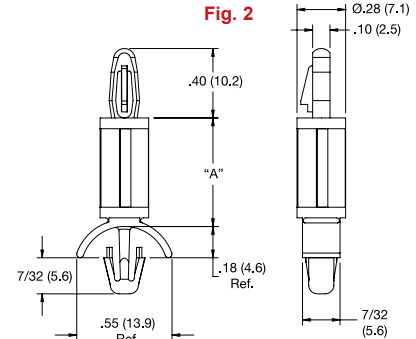


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .031 - .078 (0.79 - 1.98)

## LCBS-2

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 2

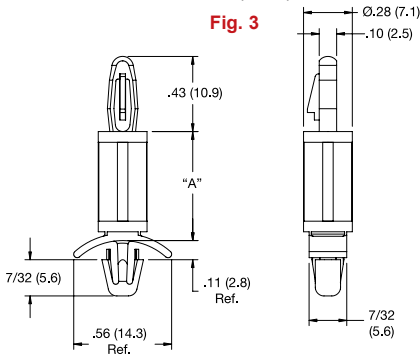


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .078 - .140 (1.98 - 3.56)

## LCBSA-3

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .093 (2.36)

Fig. 3

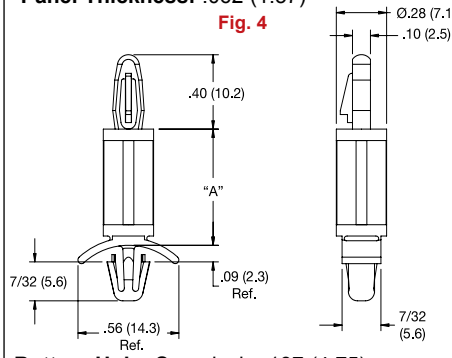


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .031 - .078 (0.79 - 1.98)

## LCBS-8

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 4

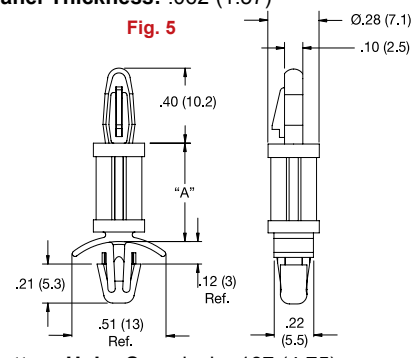


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .008 - .055 (0.2 - 1.4)

## LCBS-HT: High Temp

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 5



Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .031 - .078 (0.79 - 1.98)

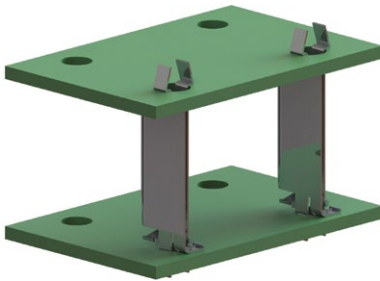
| LCBS (Fig. 1)                                             | LCBS-2 (Fig. 2)                                            | LCBSA-3 (Fig. 3)                                           | LCBS-8 (Fig. 4)                                            | LCBS-HT (Fig. 5)                                                               | Standard Pack:<br>1,000 per bag |
|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-0 PEI,<br>RMS-162<br>Color: Black<br>Max. Temp: 392°F (200°C) | "A"<br>Standoff Height          |
| LCBS-3-01                                                 | LCBS-2-3-01                                                | LCBSA-3-3-01                                               | LCBS-8-3-01                                                | LCBS-3-HT                                                                      | 3/16 (4.8)                      |
| LCBS-6M-01                                                | -                                                          | -                                                          | -                                                          | -                                                                              | .24 (6)                         |
| LCBS-4-01                                                 | LCBS-2-4-01                                                | LCBSA-3-4-01                                               | LCBS-8-4-01                                                | LCBS-4-HT                                                                      | 1/4 (6.4)                       |
| LCBS-5-01                                                 | LCBS-2-5-01                                                | LCBSA-3-5-01                                               | LCBS-8-5-01                                                | LCBS-5-HT                                                                      | 5/16 (7.9)                      |
| LCBS-8M-01                                                | -                                                          | -                                                          | -                                                          | -                                                                              | .31 (8)                         |
| LCBS-6-01                                                 | LCBS-2-6-01                                                | LCBSA-3-6-01                                               | LCBS-8-6-01                                                | LCBS-6-HT                                                                      | 3/8 (9.5)                       |
| LCBS-10M-01                                               | -                                                          | -                                                          | -                                                          | -                                                                              | .39 (10)                        |
| LCBS-7-01                                                 | LCBS-2-7-01                                                | LCBSA-3-7-01                                               | LCBS-8-7-01                                                | LCBS-7-HT                                                                      | 7/16 (11.1)                     |
| LCBS-12M-01                                               | -                                                          | -                                                          | -                                                          | -                                                                              | .47 (12)                        |
| LCBS-8-01                                                 | LCBS-2-8-01                                                | LCBSA-3-8-01                                               | LCBS-8-8-01                                                | LCBS-8-HT                                                                      | 1/2 (12.7)                      |
| LCBS-14M-01                                               | -                                                          | -                                                          | -                                                          | -                                                                              | .55 (14)                        |
| LCBS-10-01                                                | LCBS-2-10-01                                               | LCBSA-3-10-01                                              | LCBS-8-10-01                                               | LCBS-10-HT                                                                     | 5/8 (15.9)                      |
| LCBS-16M-01                                               | -                                                          | -                                                          | -                                                          | -                                                                              | .63 (16)                        |
| LCBS-12-01                                                | LCBS-2-12-01                                               | LCBSA-3-12-01                                              | LCBS-8-12-01                                               | LCBS-12-HT                                                                     | 3/4 (19.1)                      |
| LCBS-14-01                                                | LCBS-2-14-01                                               | LCBSA-3-14-01                                              | LCBS-8-14-01                                               | LCBS-14-HT                                                                     | 7/8 (22.2)                      |
| LCBS-16-01                                                | LCBS-2-16-01                                               | LCBSA-3-16-01                                              | LCBS-8-16-01                                               | LCBS-16-HT                                                                     | 1 (25.4)                        |
| LCBS-18-01                                                | LCBS-2-18-01                                               | LCBSA-3-18-01                                              | LCBS-8-18-01                                               | LCBS-18-HT                                                                     | 1-1/8 (28.6)                    |
| LCBS-20-01                                                | LCBS-2-20-01                                               | LCBSA-3-20-01                                              | LCBS-8-20-01                                               | LCBS-20-HT                                                                     | 1-1/4 (31.7)                    |
| LCBS-22-01                                                | LCBS-2-22-01                                               | LCBSA-3-22-01                                              | LCBS-8-22-01                                               | LCBS-22-HT                                                                     | 1-3/8 (34.9)                    |

Available in UL94 V-0 Material with no minimum. To order, replace -01 with -19.

\*Available in UL94 V-0 material by special order only. To order, replace -01 with -19.

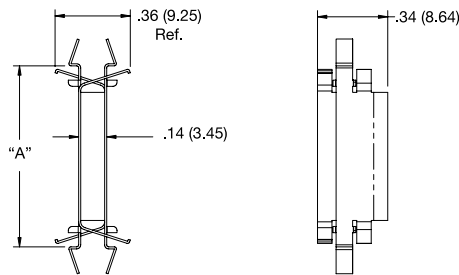
Available by special order; 5,000 piece minimum.

## MDLCBS Metal Dual Locking Circuit Board Support



Patent D456,690

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)



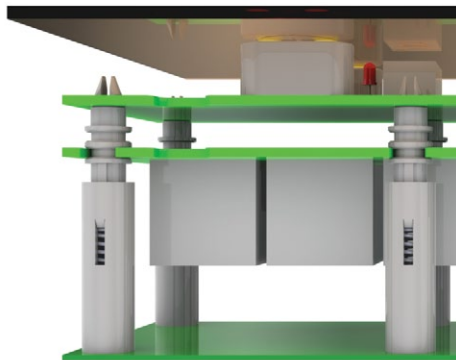
Bottom Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

| Material: 302 Stainless Steel, RMS-320 | Standard Pack: 1,000 per bag |
|----------------------------------------|------------------------------|
|                                        | "A" Standoff Height          |
| MDLCBS-4                               | 3/8 (9.5)                    |
| MDLCBS-6                               | 1/2 (12.7)                   |
| MDLCBS-8                               | 5/8 (15.9)                   |
| MDLCBS-12                              | 7/8 (22.2)                   |
| MDLCBS-16                              | 1-1/8 (28.6)                 |

### Features

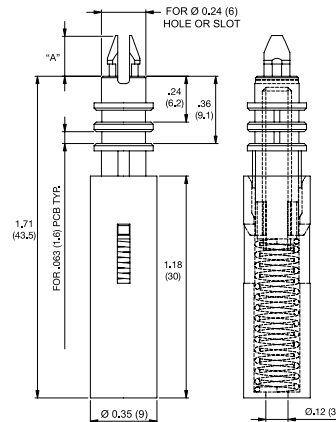
- Highly conductive and impact resistant

## TCS Touch Control Spacer



Patent Pending

Top Hole: Snap-lock: .165 (4.2)  
Panel Thickness: .063 (1.6)



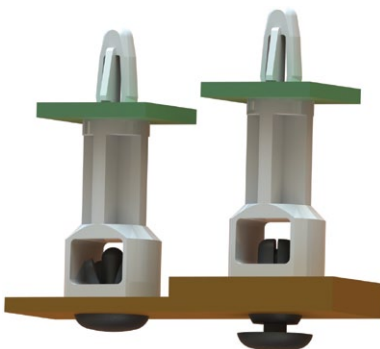
Bottom Hole: To locate over a vertical tab

### Features

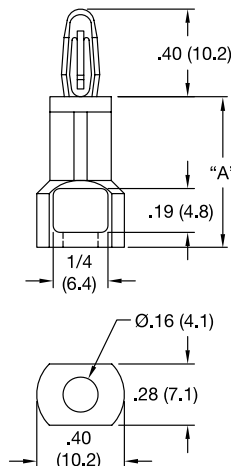
- Spring provides continuous force to light sensors mounted onto a PCB so that they are in constant contact with the cover

| Standard Pack: 500 per bag                |       |                   |                             |
|-------------------------------------------|-------|-------------------|-----------------------------|
| Color:<br>Natural                         | "A"   | Spacer Material   | Spring Material             |
| TCS-1                                     | .21   | Nylon 6/6, RMS-01 | Stainless Steel,<br>RMS-230 |
| TCS-2                                     | (5.4) | Nylon 6/6, RMS-19 |                             |
| TCS-3                                     | .17   | Nylon 6/6, RMS-01 |                             |
| TCS-4                                     | (4.2) | Nylon 6/6, RMS-19 |                             |
| Travel: .12 (3)                           |       |                   |                             |
| Custom designs available by special order |       |                   |                             |

## SRLCBS Snap Rivet Locking Circuit Board Support



Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)



Bottom Hole: For Snap Rivet: .161 - .165 (4.1 - 4.2)  
Panel Thickness: See Rivet Table

| Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural                           | Standard Pack: 1,000 per bag |
|-----------------------------------------------------------------------------------|------------------------------|
|                                                                                   | "A" Standoff Height          |
| SRLCBS-6-01                                                                       | 3/8 (9.5)                    |
| SRLCBS-7-01                                                                       | 7/16 (11.1)                  |
| SRLCBS-8-01                                                                       | 1/2 (12.7)                   |
| SRLCBS-10-01                                                                      | 5/8 (15.9)                   |
| SRLCBS-12-01                                                                      | 3/4 (19.1)                   |
| SRLCBS-14-01                                                                      | 7/8 (22.2)                   |
| SRLCBS-16-01                                                                      | 1 (25.4)                     |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                              |

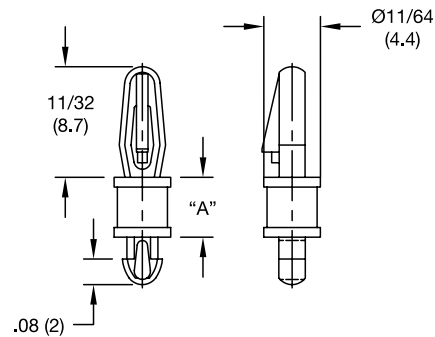
| Use Richco Rivet Part No. | For Chassis Thickness |
|---------------------------|-----------------------|
| SR-4050                   | .026-.062 (0.7-1.6)   |
| SR-4060                   | .062-.105 (1.5-2.7)   |
| SR-4070                   | .105-.145 (2.7-3.7)   |
| SR-4080                   | .145-.184 (3.7-4.7)   |
| SR-4090                   | .184-.223 (4.7-5.7)   |
| SR-4100                   | .223-.263 (5.7-6.7)   |
| SR-4120                   | .282-.341 (7.2-8.7)   |
| See Page Number 47        |                       |

A

**LCBST**

**Top Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .062 (1.57)

**Fig. 1**

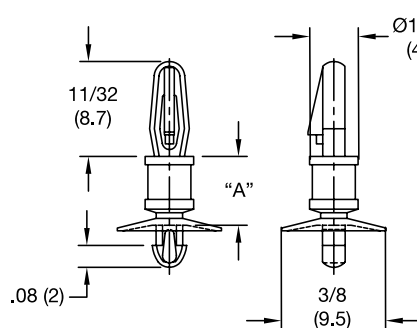


**Bottom Hole:** Snap-lock: .100 (2.54)  
**Panel Thickness:** .064 (1.63) Max.

**CLCBST**

**Top Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .062 (1.57)

**Fig. 2**

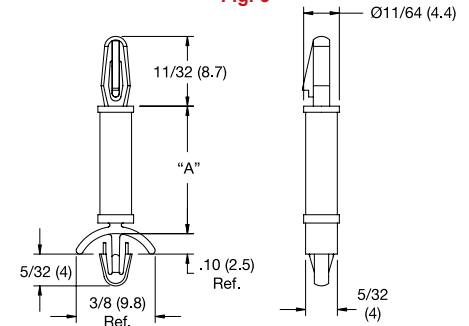


**Bottom Hole:** Snap-lock: .100 (2.54)  
**Panel Thickness:** .062 (1.57)

**LCBSM**

**Top Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .062 (1.57)

**Fig. 3**

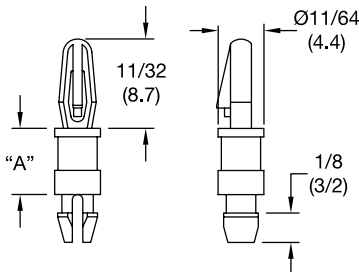


**Bottom Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

**LMSP**

**Top Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .062 (1.57)

**Fig. 4**

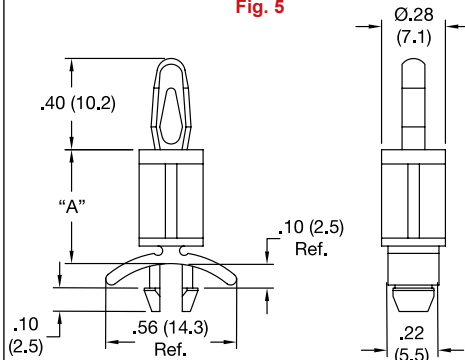


**Bottom Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .062 (1.57)

**CBS**

**Top Hole:** Snap-fit: .156 (4)  
**Panel Thickness:** .062 (1.57)

**Fig. 5**

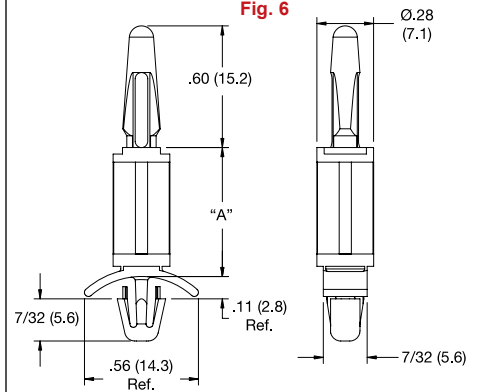


**Bottom Hole:** Snap-lock: .187 (4.75)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

**LNCBS**

**Top Hole:** Snap-fit: .156 (4)  
**Panel Thickness:** .062 (1.57)

**Fig. 6**



**Bottom Hole:** Snap-lock: .187 (4.75)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

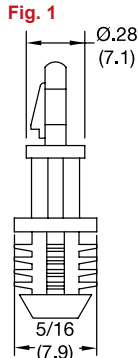
| LCBST (Fig. 1)                                                                         | CLCBST (Fig. 2)                                                   | LCBSM (Fig. 3)                                                    | LMSP (Fig. 4)                                                    | CBS (Fig. 5)                                                     | LNCBS (Fig. 6)                                                    | Standard Pack:<br>1,000 per bag |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------|
| <b>Material:</b> UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural                      | <b>Material:</b> UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | <b>Material:</b> UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | <b>Material:</b> UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural | <b>Material:</b> UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural | <b>Material:</b> UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | <b>"A"</b><br>Standoff Height   |
| LCBST-2-01                                                                             | CLCBST-2-01                                                       | LCBSM-2-01                                                        | LMSP-2-01                                                        | -                                                                | -                                                                 | 1/8 (3.2)                       |
| LCBST-3-01                                                                             | CLCBST-3-01                                                       | LCBSM-3-01                                                        | LMSP-3-01                                                        | CBS-3-01                                                         | LNCBS-3-01                                                        | 3/16 (4.8)                      |
| LCBST-4-01                                                                             | CLCBST-4-01                                                       | LCBSM-4-01                                                        | LMSP-4-01                                                        | CBS-4-01                                                         | LNCBS-4-01                                                        | 1/4 (6.4)                       |
| LCBST-5-01                                                                             | CLCBST-5-01                                                       | LCBSM-5-01                                                        | LMSP-5-01                                                        | -                                                                | -                                                                 | 5/16 (7.9)                      |
| LCBST-6-01                                                                             | CLCBST-6-01                                                       | LCBSM-6-01                                                        | LMSP-6-01                                                        | CBS-6-01                                                         | LNCBS-6-01                                                        | 3/8 (9.5)                       |
| LCBST-7-01                                                                             | CLCBST-7-01                                                       | LCBSM-7-01                                                        | LMSP-7-01                                                        | -                                                                | -                                                                 | 7/16 (11.1)                     |
| LCBST-8-01                                                                             | CLCBST-8-01                                                       | LCBSM-8-01                                                        | LMSP-8-01                                                        | CBS-8-01                                                         | LNCBS-8-01                                                        | 1/2 (12.7)                      |
| LCBST-9-01                                                                             | CLCBST-9-01                                                       | LCBSM-9-01                                                        | LMSP-9-01                                                        | -                                                                | -                                                                 | 9/16 (14.3)                     |
| LCBST-10-01                                                                            | CLCBST-10-01                                                      | LCBSM-10-01                                                       | LMSP-10-01                                                       | CBS-10-01                                                        | LNCBS-10-01                                                       | 5/8 (15.9)                      |
| -                                                                                      | -                                                                 | -                                                                 | LMSP-12-01                                                       | CBS-12-01                                                        | LNCBS-12-01                                                       | 3/4 (19.1)                      |
| -                                                                                      | -                                                                 | -                                                                 | LMSP-14-01                                                       | CBS-14-01                                                        | LNCBS-14-01                                                       | 7/8 (22.2)                      |
| Available in UL94 V-0 material with no minimum. To order, replace -01 with -19.        |                                                                   |                                                                   |                                                                  |                                                                  |                                                                   |                                 |
| *Available in UL94 V-0 material by Special Order only. To order, replace -01 with -19. |                                                                   |                                                                   |                                                                  |                                                                  |                                                                   |                                 |
| Available by special order; 5,000 piece minimum.                                       |                                                                   |                                                                   |                                                                  |                                                                  |                                                                   |                                 |



## BHL/BHC/BHDL

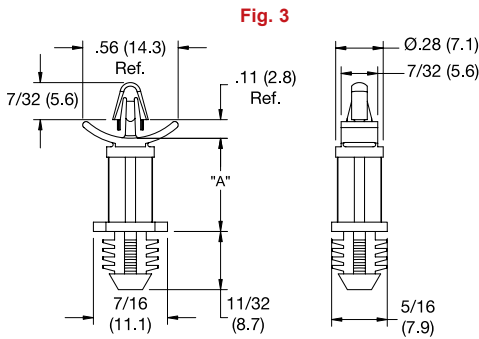
### Blind Hole Mount Circuit Board Supports

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)



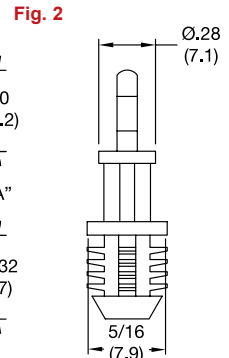
Bottom Hole: Press-fit: .312 (7.92)  
Panel Thickness: 1/4 (6.4) Min.

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .031 - .078 (0.79 - 1.98)



Bottom Hole: Press-fit: .312 (7.92)  
Panel Thickness: 1/4 (6.4) Min.

Top Hole: Snap-fit: .156 (4)  
Panel Thickness: .062 (1.57)



Bottom Hole: Press-fit: .312 (7.92)  
Panel Thickness: 1/4 (6.4) Min.

| BHL (Fig. 1)                                                                      | BHC (Fig. 2)                                            | BHDL (Fig. 3)                                           | Standard Pack: 1,000 per bag |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural                           | Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural | "A" Standoff Height          |
| BHL-3-01                                                                          | BHC-3-01                                                | BHDL-3-01                                               | 3/16 (4.8)                   |
| BHL-4-01                                                                          | BHC-4-01                                                | BHDL-4-01                                               | 1/4 (6.4)                    |
| BHL-6-01                                                                          | BHC-6-01                                                | BHDL-6-01                                               | 3/8 (9.5)                    |
| BHL-7-01                                                                          | -                                                       | -                                                       | 7/16 (11.1)                  |
| BHL-8-01                                                                          | BHC-8-01                                                | BHDL-8-01                                               | 1/2 (12.7)                   |
| BHL-10-01                                                                         | BHC-10-01                                               | BHDL-10-01                                              | 5/8 (15.9)                   |
| BHL-12-01                                                                         | BHC-12-01                                               | BHDL-12-01                                              | 3/4 (19.1)                   |
| BHL-14-01                                                                         | BHC-14-01                                               | BHDL-14-01                                              | 7/8 (22.2)                   |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                                                         |                                                         |                              |
| Available by special order 5,000 piece minimum.                                   |                                                         |                                                         |                              |
| BHL1, BHC1, BHDL1 Series For .250 (6.35) hole available by special order.         |                                                         |                                                         |                              |

## HSCBS/VD

### Vibration and Shock Dampening Spacers



Patent 7,257,870

Fig. 1

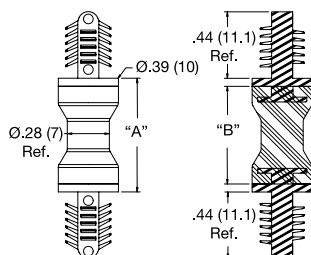


Fig. 2

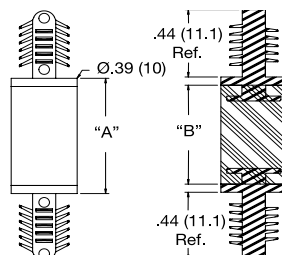
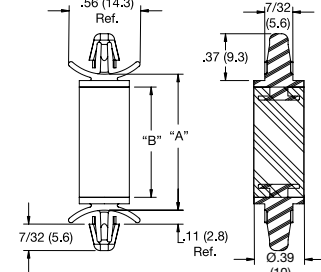


Fig. 3



| End Fix Material: UL94 V-0 Nylon 6/6, RMS-169 Color: Natural |                  |            |             |                           | Standard Pack: 1,000 per bag                       |                |      |
|--------------------------------------------------------------|------------------|------------|-------------|---------------------------|----------------------------------------------------|----------------|------|
| Part No.                                                     | "A" Uncompressed | "B" Ref.   | Hole Ø      | Panel Thickness           | Spacer Material                                    | Target Load    | Fig. |
| VD-2                                                         | .73 (18.5)       | .62 (16.3) | .250 (6.35) | .07 - .31 (1.8 - 7.9)     | UL94 HB TPE 35<br>Shore A, RMS-167<br>Color: Black | 1.0 lbf (4.4N) | 1    |
| VD-3                                                         | .97 (24.7)       | .87 (22)   |             |                           |                                                    |                |      |
| VD-4                                                         | 1.21 (30.7)      | 1.10 (28)  |             |                           |                                                    |                |      |
| VD-5                                                         | .49 (12.4)       | .38 (9.7)  |             |                           |                                                    |                |      |
| VD-6                                                         | .73 (18.5)       | .62 (16.3) |             |                           |                                                    | 1.6 lbf (7.1N) | 2    |
| VD-7                                                         | .97 (24.7)       | .87 (22)   |             |                           |                                                    |                |      |
| VD-8                                                         | 1.21 (30.7)      | 1.10 (28)  |             |                           |                                                    |                |      |
| HSCBS-1                                                      | .59 (14.9)       | .38 (9.7)  | .187 (4.75) | .031 - .078 (0.79 - 1.98) | UL94 HB TPE 45<br>Shore A, RMS-168<br>Color: Black | 2.2 lbf (9.8N) | 3    |
| HSCBS-2                                                      | .83 (21)         | .62 (16.3) |             |                           |                                                    |                |      |
| HSCBS-3                                                      | 1.07 (27.1)      | .87 (22)   |             |                           |                                                    |                |      |
| HSCBS-4                                                      | 1.31 (33.2)      | 1.10 (28)  |             |                           |                                                    |                |      |

A

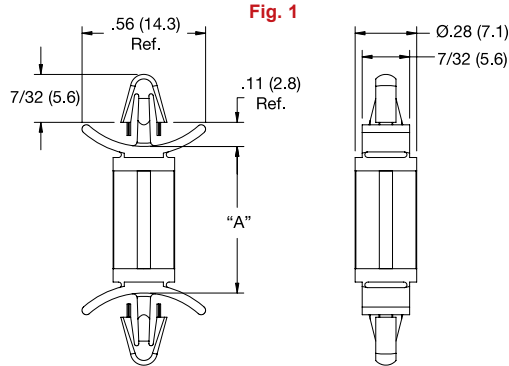
## DLCBS

### Dual Locking Circuit Board Support



## DLCBS

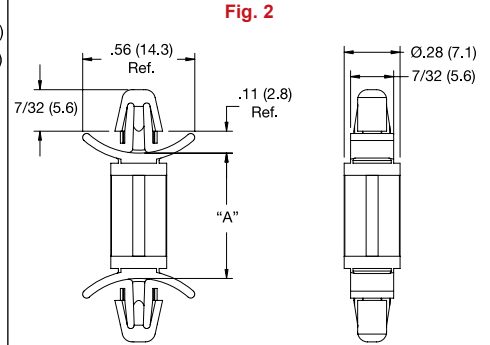
**Top Hole:** Snap-lock: .156 (4)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)



**Bottom Hole:** Snap-lock: .156 (4)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

## DLCBS2

**Top Hole:** Snap-lock: .187 (4.75)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

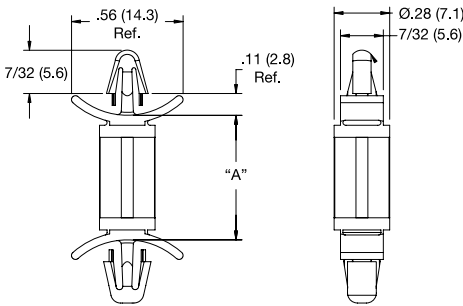


**Bottom Hole:** Snap-lock: .187 (4.75)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

## DLCBS3

**Top Hole:** Snap-lock: .156 (4)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

Fig. 3

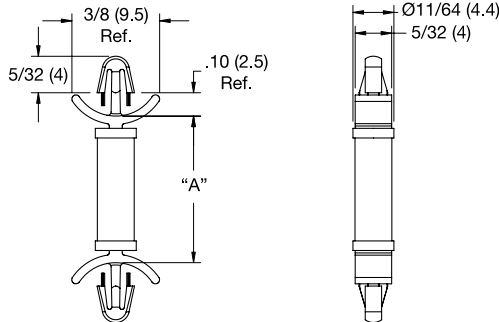


**Bottom Hole:** Snap-lock: .187 (4.75)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

## DLCBSM

**Top Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

Fig. 4

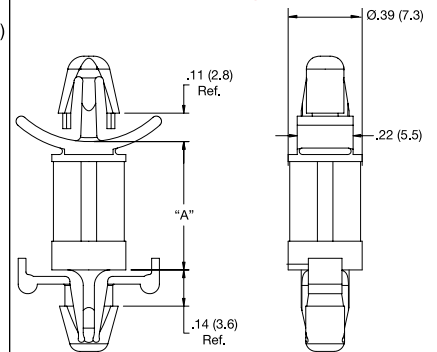


**Bottom Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

## DLCBSRA

**Top Hole:** Snap-lock: .187 (4.75)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

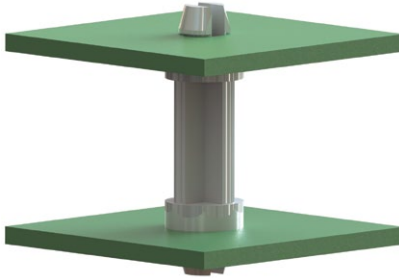
Fig. 5



**Bottom Hole:** Snap-lock: .187 (4.75)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

| DLCBS<br>(Fig. 1)                                                                 | DLCBS-2<br>(Fig. 2)                                       | DLCBS-3<br>(Fig. 3)                                        | DLCBSM<br>(Fig. 4)                                         | DLCBSRA<br>(Fig. 5)                                        | Standard Pack:<br>1,000 per bag |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural                         | Material: UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff Height          |
| DLCBS-3-01                                                                        | DLCBS2-3-01                                               | DLCBS3-3-01                                                | DLCBSM-3-01                                                | DLCBSRA3-6-01                                              | 3/16 (4.8)                      |
| DLCBS-4-01                                                                        | DLCBS2-4-01                                               | DLCBS3-4-01                                                | DLCBSM-4-01                                                | -                                                          | 1/4 (6.4)                       |
| -                                                                                 | -                                                         | -                                                          | DLCBSM-5-01                                                | -                                                          | 5/16 (7.9)                      |
| DLCBS-6-01                                                                        | DLCBS2-6-01                                               | DLCBS3-6-01                                                | DLCBSM-6-01                                                | -                                                          | 3/8 (9.5)                       |
| -                                                                                 | -                                                         | -                                                          | DLCBSM-7-01                                                | -                                                          | 7/16 (11.1)                     |
| DLCBS-8-01                                                                        | DLCBS2-8-01                                               | DLCBS3-8-01                                                | DLCBSM-8-01                                                | DLCBSRA3-8-01                                              | 1/2 (12.7)                      |
| DLCBS-9-01                                                                        | DLCBS2-9-01                                               | -                                                          | DLCBSM-9-01                                                | -                                                          | 9/16 (14.3)                     |
| DLCBS-10-01                                                                       | DLCBS2-10-01                                              | DLCBS3-10-01                                               | DLCBSM-10-01                                               | DLCBSRA3-10-01                                             | 5/8 (15.9)                      |
| DLCBS-12-01                                                                       | DLCBS2-12-01                                              | DLCBS3-12-01                                               | -                                                          | DLCBSRA3-12-01                                             | 3/4 (19.1)                      |
| DLCBS-14-01                                                                       | DLCBS2-14-01                                              | DLCBS3-14-01                                               | -                                                          | DLCBSRA3-14-01                                             | 7/8 (22.2)                      |
| Available in UL94 V-0 material with no minimum. To order, replace -01 with -19.   |                                                           |                                                            |                                                            |                                                            |                                 |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                                                           |                                                            |                                                            |                                                            |                                 |
| Available by special order; 5,000 piece minimum.                                  |                                                           |                                                            |                                                            |                                                            |                                 |

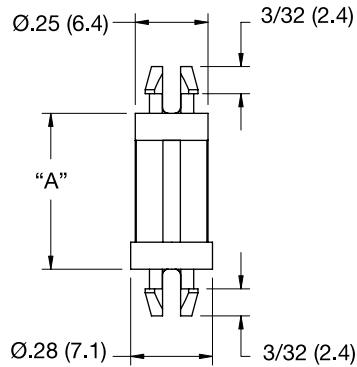
## SP/MSPE Support Post



SP1

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 1

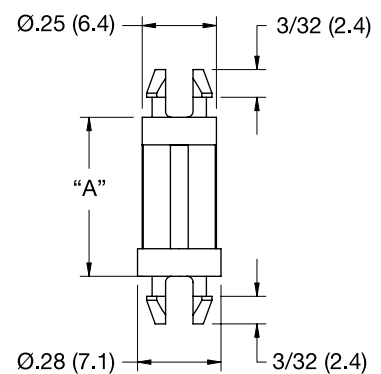


Bottom Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

SP2

Top Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .062 (1.57)

Fig. 2

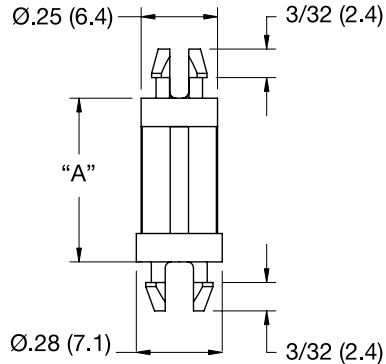


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .062 (1.57)

SP3

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 3

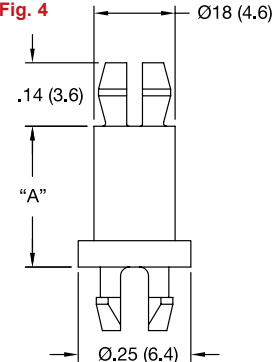


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .062 (1.57)

MSPE

Top Hole: Snap-fit: .152 (3.9)  
Panel Thickness: .062 (1.57)

Fig. 4



Bottom Hole: Snap-lock: .152 (3.9)  
Panel Thickness: .062 (1.57)

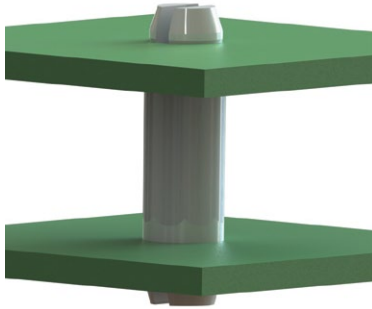
| SP1 (Fig. 1)                                               | SP2 (Fig. 2)                                               | SP3 (Fig. 3)                                               | MSPE (Fig. 4)                                              | Standard Pack:<br>1,000 per bag |
|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff Height          |
| -                                                          | -                                                          | -                                                          | MSPE-2-01                                                  | 1/8 (3.2)                       |
| SP1-3-01                                                   | SP2-3-01                                                   | SP3-3-01                                                   | MSPE-3-01                                                  | 3/16 (4.8)                      |
| SP1-4-01                                                   | SP2-4-01                                                   | SP3-4-01                                                   | MSPE-4-01                                                  | 1/4 (6.4)                       |
| -                                                          | -                                                          | -                                                          | MSPE-5-01                                                  | 5/16 (7.9)                      |
| SP1-6-01                                                   | SP2-6-01                                                   | SP3-6-01                                                   | MSPE-6-01                                                  | 3/8 (9.5)                       |
| -                                                          | -                                                          | -                                                          | MSPE-7-01                                                  | 7/16 (11.1)                     |
| SP1-8-01                                                   | SP2-8-01                                                   | SP3-8-01                                                   | MSPE-8-01                                                  | 1/2 (12.7)                      |
| SP1-10-01                                                  | SP2-10-01                                                  | SP3-10-01                                                  | MSPE-10-01                                                 | 5/8 (15.9)                      |
| -                                                          | -                                                          | -                                                          | MSPE-11-01                                                 | 11/16 (17.5)                    |
| SP1-12-01                                                  | SP2-12-01                                                  | SP3-12-01                                                  | MSPE-12-01                                                 | 3/4 (19.1)                      |
| SP1-14-01                                                  | SP2-14-01                                                  | SP3-14-01                                                  | MSPE-14-01                                                 | 7/8 (22.2)                      |
| SP1-16-01                                                  | SP2-16-01                                                  | SP3-16-01                                                  | MSPE-16-01                                                 | 1 (25.4)                        |
| -                                                          | -                                                          | -                                                          | MSPE-20-01                                                 | 1-1/4 (31.8)                    |
| -                                                          | -                                                          | -                                                          | MSPE-22-01                                                 | 1-3/8 (34.9)                    |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19.

A

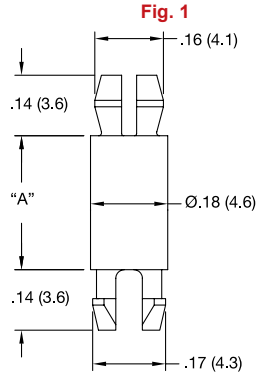
## MSP/DLMSP/DLCBST

### Mini Support Post



#### MSP

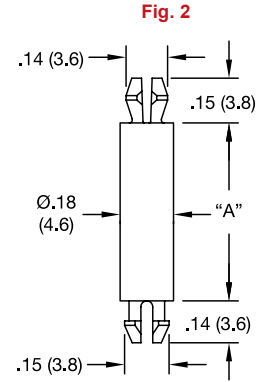
Top Hole: Snap-fit: .152 (3.86)  
Panel Thickness: .062 (1.57)



Bottom Hole: Snap-lock: .152 (3.86)  
Panel Thickness: .062 (1.57)

#### MSPM

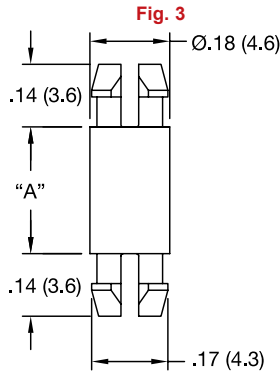
Top Hole: Snap-fit: .125 (3.18)  
Panel Thickness: .062 (1.57)



Bottom Hole: Snap-lock: .125 (3.18)  
Panel Thickness: .062 (1.57)

#### DLMSP

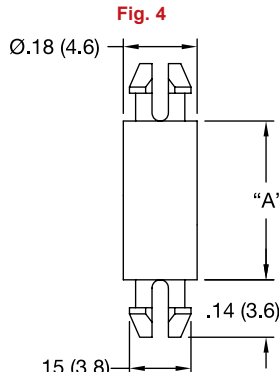
Top Hole: Snap-lock: .152 (3.86)  
Panel Thickness: .062 (1.57)



Bottom Hole: Snap-lock: .152 (3.86)  
Panel Thickness: .062 (1.57)

#### DLMSPM

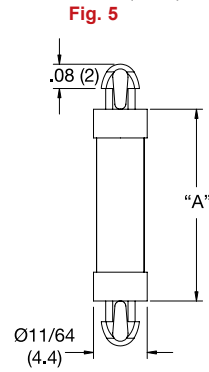
Top Hole: Snap-lock: .125 (3.18)  
Panel Thickness: .062 (1.57)



Bottom Hole: Snap-lock: .125 (3.18)  
Panel Thickness: .062 (1.57)

#### DLCBST

Top Hole: Snap-lock: .100 (2.54)  
Panel Thickness: .064 (1.63) Max.

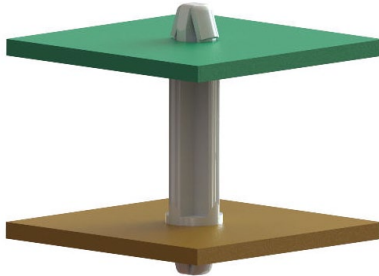


Bottom Hole: Snap-lock: .100 (2.54)  
Panel Thickness: .064 (1.63) Max.

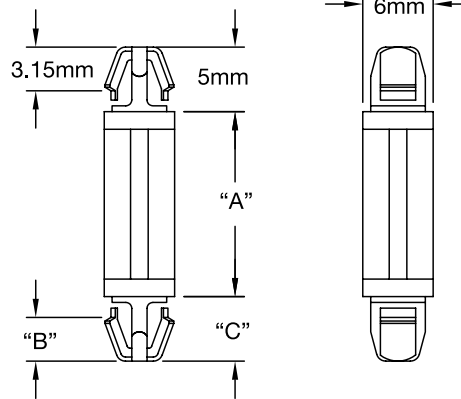
| MSP (Fig. 1)                                               | MSPM (Fig. 2)                                              | DLMSP (Fig. 3)                                             | DLMSPM (Fig. 4)                                            | DLCBST (Fig. 5)                                            | Standard Pack:<br>1,000 per bag |
|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff Height          |
| -                                                          | -                                                          | -                                                          | -                                                          | DLCBST-1-01                                                | 1/16 (1.6)                      |
| MSP-2-01                                                   | MSPM-2-01                                                  | DLMSP-2-01                                                 | DLMSPM-2-01                                                | DLCBST-2-01                                                | 1/8 (3.2)                       |
| MSP-3-01                                                   | MSPM-3-01                                                  | DLMSP-3-01                                                 | DLMSPM-3-01                                                | DLCBST-3-01                                                | 3/16 (4.8)                      |
| MSP-4-01                                                   | MSPM-4-01                                                  | DLMSP-4-01                                                 | DLMSPM-4-01                                                | DLCBST-4-01                                                | 1/4 (6.4)                       |
| MSP-5-01                                                   | MSPM-5-01                                                  | DLMSP-5-01                                                 | DLMSPM-5-01                                                | DLCBST-5-01                                                | 5/16 (7.9)                      |
| MSP-6-01                                                   | MSPM-6-01                                                  | DLMSP-6-01                                                 | DLMSPM-6-01                                                | DLCBST-6-01                                                | 3/8 (9.5)                       |
| MSP-7-01                                                   | MSPM-7-01                                                  | DLMSP-7-01                                                 | DLMSPM-7-01                                                | DLCBST-7-01                                                | 7/16 (11.1)                     |
| MSP-8-01                                                   | MSPM-8-01                                                  | DLMSP-8-01                                                 | DLMSPM-8-01                                                | DLCBST-8-01                                                | 1/2 (12.7)                      |
| MSP-9-01                                                   | MSPM-9-01                                                  | DLMSP-9-01                                                 | DLMSPM-9-01                                                | DLCBST-9-01                                                | 9/16 (14.3)                     |
| MSP-10-01                                                  | MSPM-10-01                                                 | DLMSP-10-01                                                | DLMSPM-10-01                                               | DLCBST-10-01                                               | 5/8 (15.9)                      |
| MSP-11-01                                                  | -                                                          | -                                                          | -                                                          | -                                                          | 11/16 (17.5)                    |
| MSP-12-01                                                  | MSPM-12-01                                                 | DLMSP-12-01                                                | DLMSPM-12-01                                               | -                                                          | 3/4 (19.1)                      |
| MSP-13-01                                                  | MSPM-13-01                                                 | -                                                          | DLMSPM-13-01                                               | -                                                          | 13/16 (20.6)                    |
| MSP-14-01                                                  | MSPM-14-01                                                 | DLMSP-14-01                                                | DLMSPM-14-01                                               | -                                                          | 7/8 (22.2)                      |
| MSP-16-01                                                  | MSPM-16-01                                                 | DLMSP-16-01                                                | DLMSPM-16-01                                               | -                                                          | 1 (25.4)                        |
| MSP-18-01                                                  | MSPM-18-01                                                 | DLMSP-18-01                                                | DLMSPM-18-01                                               | -                                                          | 1-1/8 (28.6)                    |
| MSP-20-01                                                  | MSPM-20-01                                                 | DLMSP-20-01                                                | DLMSPM-20-01                                               | -                                                          | 1-1/4 (31.8)                    |
| MSP-22-01                                                  | MSPM-22-01                                                 | DLMSP-22-01                                                | DLMSPM-22-01                                               | -                                                          | 1-3/8 (34.9)                    |
| MSP-24-01                                                  | MSPM-24-01                                                 | DLMSP-24-01                                                | DLMSPM-24-01                                               | -                                                          | 1-1/2 (38.1)                    |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19.

## DLSP Metric Dual Locking Support



Top Hole: Snap-lock: 4mm  
Panel Thickness: 1.6mm

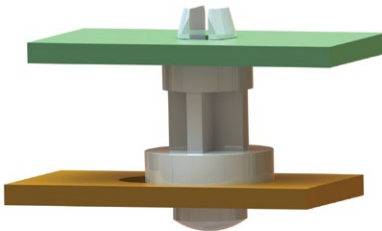


Bottom Hole: Snap-lock: DLSP-1: 4mm  
DLSP-3: 4.8mm  
Panel Thickness: 1.6mm

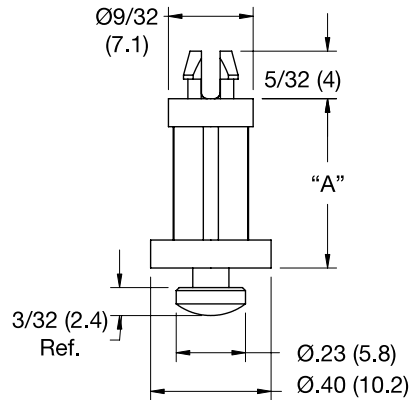
| DLSP-1                                                                                                       | DLSP-3                                                  | Standard Pack: 1,000 per bag |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------|
| Material: UL 94V-2 Nylon 6/6, RMS-01*<br>Color: Natural                                                      | Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural | "A" Standoff Height mm       |
| "B" = 3.15mm<br>"C" = 5mm                                                                                    | "B" = 3.7mm<br>"C" = 5.5mm                              |                              |
| DLSP-1-3M-01                                                                                                 | DLSP-3-3M-01                                            | 3                            |
| DLSP-1-4M-01                                                                                                 | DLSP-3-4M-01                                            | 4                            |
| DLSP-1-6M-01                                                                                                 | DLSP-3-6M-01                                            | 6                            |
| DLSP-1-8M-01                                                                                                 | DLSP-3-8M-01                                            | 8                            |
| DLSP-1-10M-01                                                                                                | DLSP-3-10M-01                                           | 10                           |
| DLSP-1-12M-01                                                                                                | DLSP-3-12M-01                                           | 12                           |
| DLSP-1-14M-01                                                                                                | DLSP-3-14M-01                                           | 14                           |
| DLSP-1-16M-01                                                                                                | DLSP-3-16M-01                                           | 16                           |
| DLSP-1-18M-01                                                                                                | DLSP-3-18M-01                                           | 18                           |
| DLSP-1-25M-01                                                                                                | -                                                       | 25                           |
| DLSP-1-30M-01                                                                                                | -                                                       | 30                           |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19.                         |                                                         |                              |
| Available to snap into a 4.8mm hole on both end by special order.<br>To order, use part number DLSP-2-XX-XX. |                                                         |                              |
| Available by special order; 5,000 piece minimum.                                                             |                                                         |                              |

A

## KSLSP Key Slot Locking Support Post

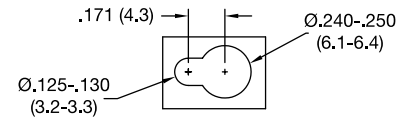


Top Hole: Snap-lock: KSLSP1: .156 (4)  
KSLSP2: .187 (4.75)  
Panel Thickness: .062 (1.57)



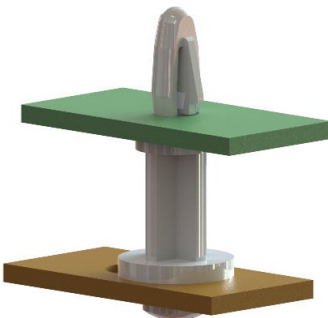
Bottom Hole: See Mounting Key Slot Detail  
Panel Thickness: .062 (1.57)

| KSLSP1                                                                               | KSLSP2                                                  | Standard Pack: 1,000 per bag |
|--------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural                              | Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural | "A" Standoff Height          |
| KSLSP1-3-01                                                                          | KSLSP2-3-01                                             | 3/16 (4.8)                   |
| KSLSP1-4-01                                                                          | KSLSP2-4-01                                             | 1/4 (6.4)                    |
| KSLSP1-6-01                                                                          | KSLSP2-6-01                                             | 3/8 (9.5)                    |
| KSLSP1-8-01                                                                          | KSLSP2-8-01                                             | 1/2 (12.7)                   |
| KSLSP1-10-01                                                                         | KSLSP2-10-01                                            | 5/8 (15.9)                   |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19. |                                                         |                              |
| Available by special order, 5,000 piece minimum.                                     |                                                         |                              |

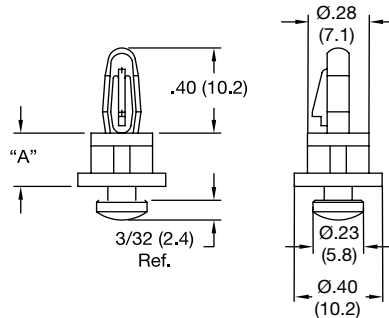


Recommended Mounting Slot

## KSLBN Key Slot with Locking Bayonet Nose

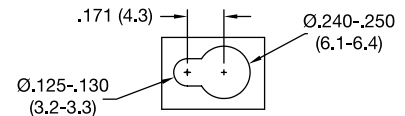


Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)



Bottom Hole: See Mounting Key Slot Detail  
Panel Thickness: .062 (1.57)

| Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural                                                          | Standard Pack: 1,000 per bag |
|------------------------------------------------------------------------------------------------------------------|------------------------------|
|                                                                                                                  | "A" Standoff Height          |
| KSLBN-2-01                                                                                                       | 1/8 (3.2)                    |
| KSLBN-4-01                                                                                                       | 1/4 (6.4)                    |
| KSLBN-6-01                                                                                                       | 3/8 (9.5)                    |
| KSLBN-8-01                                                                                                       | 1/2 (12.7)                   |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19.                             |                              |
| Bayonet nose available for a .093(2.36) thick board by special order.<br>To order, use part number KSLBN-2-X-01. |                              |



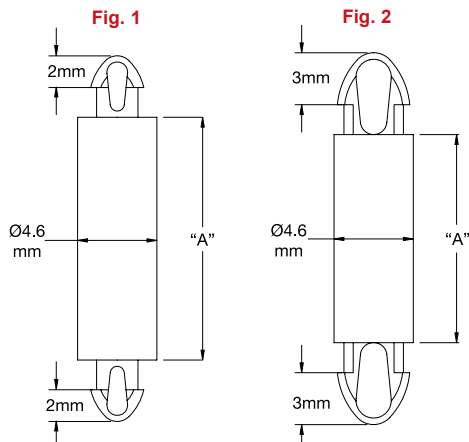
Recommended Mounting Slot



A

## MDLSP1 & 2 Metric Mini Locking Support Post

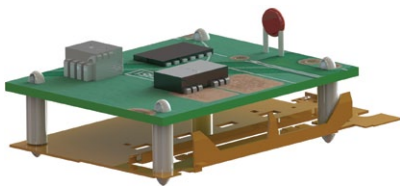
**Top Hole:** Snap-lock: MDLSP1: 2.5mm  
MDLSP2: 3.5mm  
**Panel Thickness:** 1.65mm Max.



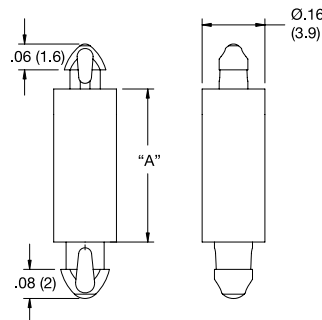
**Bottom Hole:** Snap-lock: MDLSP1: 2.5mm MDLSP2: 3.5mm  
**Panel Thickness:** 1.65mm Max.

| MDLSP1 (Fig. 1)                                                                        | MDLSP2 (Fig. 2)                                                              | Standard Pack: 1,000 per bag  |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------|
| <b>Material:</b> UL94 V-2 Nylon 6/6, <b>RMS-01*</b><br><b>Color:</b> Natural           | <b>Material:</b> UL94 V-2 Nylon 6/6, <b>RMS-01*</b><br><b>Color:</b> Natural | <b>"A" Standoff Height mm</b> |
| MDLSP1-02M-01                                                                          | MDLSP2-02M-01                                                                | 2                             |
| MDLSP1-03M-01                                                                          | MDLSP2-03M-01                                                                | 3                             |
| MDLSP1-04M-01                                                                          | MDLSP2-04M-01                                                                | 4                             |
| MDLSP1-05M-01                                                                          | MDLSP2-05M-01                                                                | 5                             |
| MDLSP1-06M-01                                                                          | MDLSP2-06M-01                                                                | 6                             |
| MDLSP1-07M-01                                                                          | MDLSP2-07M-01                                                                | 7                             |
| MDLSP1-08M-01                                                                          | MDLSP2-08M-01                                                                | 8                             |
| MDLSP1-09M-01                                                                          | MDLSP2-09M-01                                                                | 9                             |
| MDLSP1-10M-01                                                                          | MDLSP2-10M-01                                                                | 10                            |
| MDLSP1-12M-01                                                                          | MDLSP2-12M-01                                                                | 12                            |
| MDLSP1-14M-01                                                                          | MDLSP2-14M-01                                                                | 14                            |
| MDLSP1-16M-01                                                                          | MDLSP2-16M-01                                                                | 16                            |
| MDLSP1-18M-01                                                                          | MDLSP2-18M-01                                                                | 18                            |
| MDLSP1-20M-01                                                                          | MDLSP2-20M-01                                                                | 20                            |
| MDLSP1-22M-01                                                                          | MDLSP2-22M-01                                                                | 22                            |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19.      |                                                                              |                               |
| MDLSPKX-XXM-01 with top to fit in a 3.6mm thick panel available by special order only. |                                                                              |                               |

## MDLSP3 Mini Locking Support Post



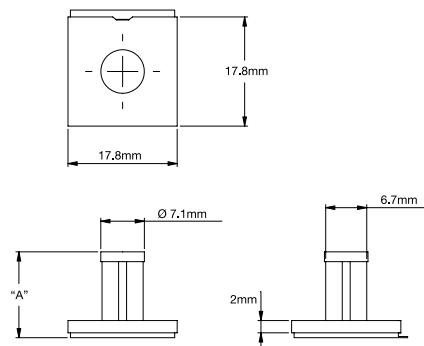
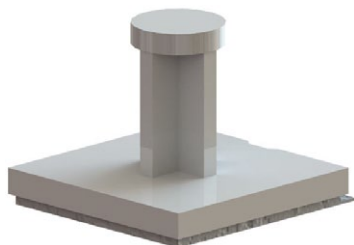
**Top Hole:** Snap-lock: .098 (2.5)  
**Panel Thickness:** .063 (1.6)



**Bottom Hole:** Snap-lock: .08 (2)  
**Panel Thickness:** .04 (1)

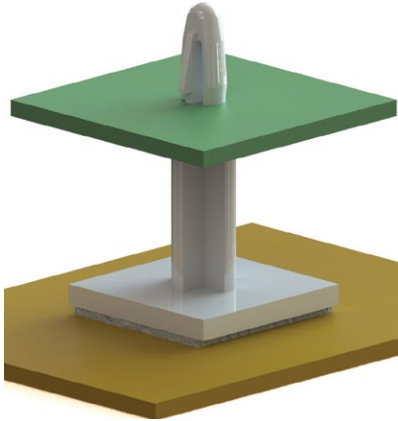
| Standard Pack: 1,000 per bag                                                      |                            |
|-----------------------------------------------------------------------------------|----------------------------|
| <b>Material:</b> UL94 V-2 Nylon 6/6, <b>RMS-01*</b><br><b>Color:</b> Natural      | <b>"A" Standoff Height</b> |
| MDLSP3-1-01                                                                       | .063 (1.6)                 |
| MDLSP3-2-01                                                                       | .126 (3.2)                 |
| MDLSP3-3-01                                                                       | .189 (4.8)                 |
| MDLSP3-4-01                                                                       | .252 (6.4)                 |
| MDLSP3-5-01                                                                       | .311 (7.9)                 |
| MDLSP3-6-01                                                                       | .374 (9.5)                 |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                            |

## PSB Metric Push Spacer on Adhesive Base



| Standard Pack: 1,000 per bag                                                |                                                                             |                               |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------|
| Adhesive Backing, RMS-24, double sided adhesive tape                        |                                                                             |                               |
| <b>Material:</b> UL94 V-2 Nylon 6/6, <b>RMS-01</b><br><b>Color:</b> Natural | <b>Material:</b> UL94 V-0 Nylon 6/6, <b>RMS-19</b><br><b>Color:</b> Natural | <b>"A" Standoff Height mm</b> |
| PSB-6M-01A2-RT                                                              | PSB-6M-19A2-RT                                                              | 6                             |
| PSB-8M-01A2-RT                                                              | PSB-8M-19A2-RT                                                              | 8                             |
| PSB-10M-01A2-RT                                                             | PSB-10M-19A2-RT                                                             | 10                            |
| PSB-12M-01A2-RT                                                             | PSB-12M-19A2-RT                                                             | 12                            |
| PSB-14M-01A2-RT                                                             | PSB-14M-19A2-RT                                                             | 14                            |
| PSB-16M-01A2-RT                                                             | PSB-16M-19A2-RT                                                             | 16                            |

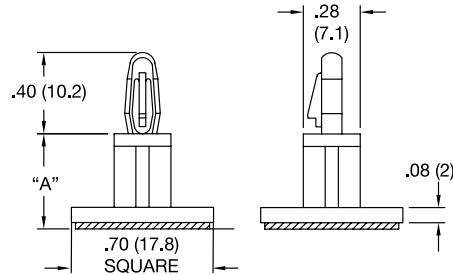
## LCBSB/CBSB Circuit Board Support on Adhesive Base



### LCBSB

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

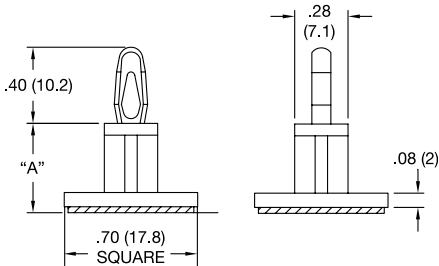
Fig. 1



### CBSB

Top Hole: Snap-fit: .156 (4)  
Panel Thickness: .062 (1.57)

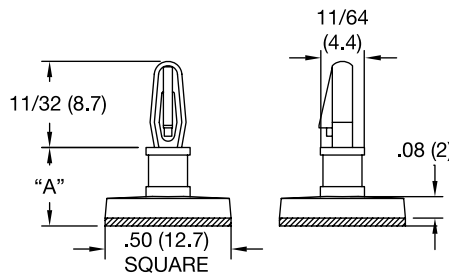
Fig. 2



### LCBSBM

Top Hole: Snap-lock: .125 (3.18)  
Panel Thickness: .062 (1.57)

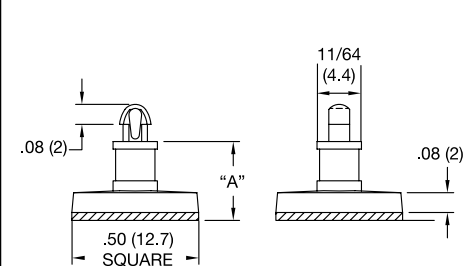
Fig. 3



### CBSBT

Top Hole: Snap-lock: .100 (2.54)  
Panel Thickness: .064 (1.63) Max.

Fig. 4



| LCBSB (Fig. 1)                                                                    | CBSB (Fig. 2)                                              | LCBSBM (Fig. 3)                                            | CBSBT (Fig. 4)                                             | Standard Pack:<br>1,000 per bag |
|-----------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|---------------------------------|
| Adhesive: 1/32 (0.8) thick double sided adhesive, RMS-15                          |                                                            |                                                            |                                                            |                                 |
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural                        | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff Height          |
| LCBSB-3-01A-RT                                                                    | CBSB-3-01A-RT                                              | LCBSBM-3-01A-RT                                            | CBSBT-3-01A-RT                                             | 3/16 (4.8)                      |
| LCBSB-4-01A-RT                                                                    | CBSB-4-01A-RT                                              | LCBSBM-4-01A-RT                                            | CBSBT-4-01A-RT                                             | 1/4 (6.4)                       |
| -                                                                                 | -                                                          | LCBSBM-5-01A-RT                                            | CBSBT-5-01A-RT                                             | 5/16 (7.9)                      |
| LCBSB-6-01A-RT                                                                    | CBSB-6-01A-RT                                              | LCBSBM-6-01A-RT                                            | CBSBT-6-01A-RT                                             | 3/8 (9.5)                       |
| -                                                                                 | -                                                          | LCBSBM-7-01A-RT                                            | CBSBT-7-01A-RT                                             | 7/16 (11.1)                     |
| LCBSB-8-01A-RT                                                                    | CBSB-8-01A-RT                                              | LCBSBM-8-01A-RT                                            | CBSBT-8-01A-RT                                             | 1/2 (12.7)                      |
| LCBSB-9-01A-RT                                                                    | CBSB-9-01A-RT                                              | LCBSBM-9-01A-RT                                            | CBSBT-9-01A-RT                                             | 9/16 (14.3)                     |
| LCBSB-10-01A-RT                                                                   | CBSB-10-01A-RT                                             | LCBSBM-10-01A-RT                                           | CBSBT-10-01A-RT                                            | 5/8 (15.9)                      |
| LCBSB-12-01A-RT                                                                   | CBSB-12-01A-RT                                             | -                                                          | -                                                          | 3/4 (19.1)                      |
| LCBSB-14-01A-RT                                                                   | CBSB-14-01A-RT                                             | -                                                          | -                                                          | 7/8 (22.2)                      |
| LCBSB-16-01A-RT                                                                   | CBSB-16-01A-RT                                             | -                                                          | -                                                          | 1 (25.4)                        |
| LCBSB-18-01A-RT                                                                   | CBSB-18-01A-RT                                             | -                                                          | -                                                          | 1-1/8 (28.6)                    |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                                                            |                                                            |                                                            |                                 |
| Available without adhesive by special order; 5,000 piece minimum.                 |                                                            |                                                            |                                                            |                                 |

| Metric Lengths                                                      |                                 |
|---------------------------------------------------------------------|---------------------------------|
| LCBSB (Fig. 1)                                                      | Standard Pack:<br>1,000 per bag |
| Adhesive: 1/32 (0.8) thick double sided adhesive, RMS-15            |                                 |
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural          | "A"<br>Standoff Height<br>mm    |
| LCBSB-6M-01A-RT                                                     | 6                               |
| LCBSB-8M-01A-RT                                                     | 8                               |
| LCBSB-10M-01A-RT                                                    | 10                              |
| LCBSB-12M-01A-RT                                                    | 12                              |
| LCBSB-14M-01A-RT                                                    | 14                              |
| LCBSB-16M-01A-RT                                                    | 16                              |
| *Available in UL94 V-0 material.<br>To order, replace -01 with -19. |                                 |
| Also available without adhesive by special order.                   |                                 |
| Available by special order; 5,000 piece minimum.                    |                                 |

A

## PST/CPST Push Spacer Teardrop

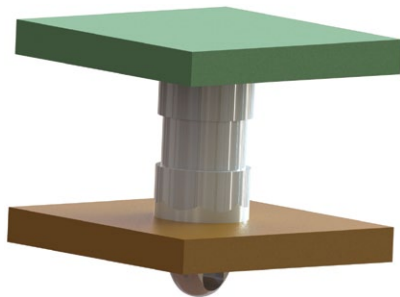


Fig. 1

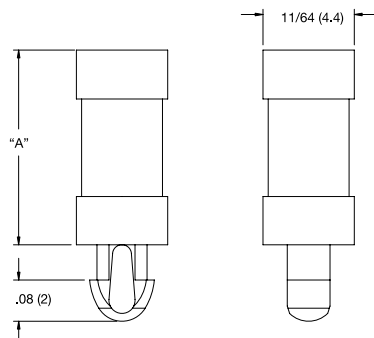
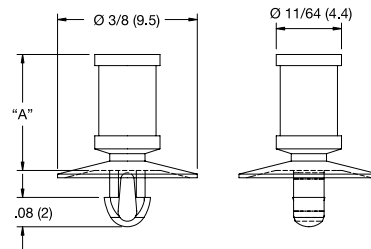


Fig. 2



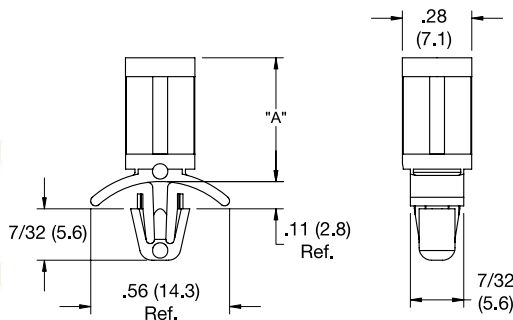
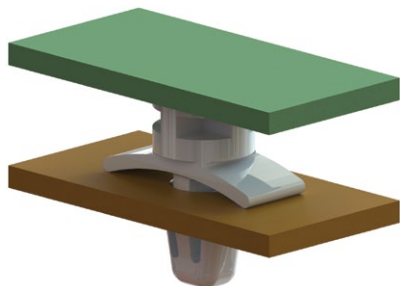
**Bottom Hole:** Snap-lock: .100 (2.54)  
**Panel Thickness:** .064 (1.63) Max.

**Bottom Hole:** Snap-lock: .100 (2.54)  
**Panel Thickness:** .062 (1.57) Max.

| PST (Fig. 1)                                                          | CPST (Fig. 2)                                                         | Standard Pack: 1,000 per bag  |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------|
| <b>Material:</b> UL94 V-2 Nylon 6/6, RMS-01*<br><b>Color:</b> Natural | <b>Material:</b> UL94 V-2 Nylon 6/6, RMS-01*<br><b>Color:</b> Natural | <b>"A"</b><br>Standoff Height |
| PST-1-01                                                              | -                                                                     | 1/16 (1.6)                    |
| PST-2-01                                                              | CPST-2-01                                                             | 1/8 (3.2)                     |
| PST-3-01                                                              | CPST-3-01                                                             | 3/16 (4.8)                    |
| PST-4-01                                                              | CPST-4-01                                                             | 1/4 (6.4)                     |
| PST-5-01                                                              | CPST-5-01                                                             | 5/16 (7.9)                    |
| PST-6-01                                                              | CPST-6-01                                                             | 3/8 (9.5)                     |
| PST-7-01                                                              | CPST-7-01                                                             | 7/16 (11.1)                   |
| PST-8-01                                                              | CPST-8-01                                                             | 1/2 (12.7)                    |
| PST-9-01                                                              | CPST-9-01                                                             | 9/16 (14.3)                   |
| PST-10-01                                                             | CPST-10-01                                                            | 5/8 (15.9)                    |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19.

## PS Push Spacer

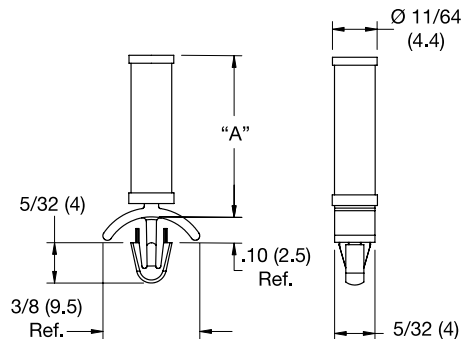
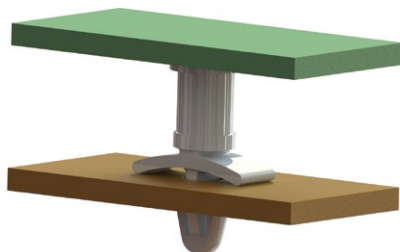


**Bottom Hole:** Snap-lock: .187 (4.75)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

| Standard Pack: 1,000 per bag                                         |                                                                      |                               |
|----------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------|
| <b>Material:</b> UL94 V-2 Nylon 6/6, RMS-01<br><b>Color:</b> Natural | <b>Material:</b> UL94 V-0 Nylon 6/6, RMS-19<br><b>Color:</b> Natural | <b>"A"</b><br>Standoff Height |
| PS-3-01                                                              | PS-3-19                                                              | 3/16 (4.8)                    |
| PS-4-01                                                              | PS-4-19                                                              | 1/4 (6.4)                     |
| PS-6-01                                                              | PS-6-19                                                              | 3/8 (9.5)                     |
| PS-7-01                                                              | PS-7-19                                                              | 7/16 (11.1)                   |
| PS-8-01                                                              | PS-8-19                                                              | 1/2 (12.7)                    |
| PS-10-01                                                             | PS-10-19                                                             | 5/8 (15.9)                    |
| PS-12-01                                                             | PS-12-19                                                             | 3/4 (19.1)                    |
| PS-14-01                                                             | PS-14-19                                                             | 7/8 (22.2)                    |

Also available for a .078 - .140 (1.98 - 3.56) thick chassis by special order. To order, use P/N: PS-2-XX-XX.

## PSM Mini Push Spacer



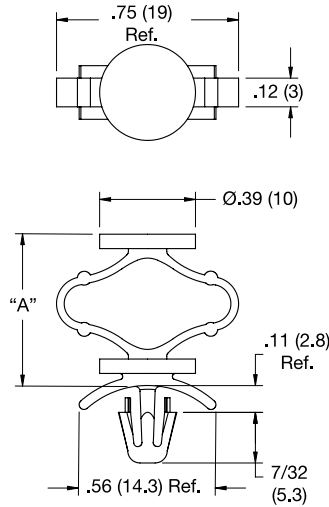
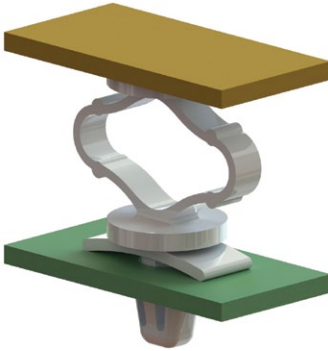
**Bottom Hole:** Snap-lock: .125 (3.18)  
**Panel Thickness:** .031 - .078 (0.79 - 1.98)

| Standard Pack: 1,000 per bag                                          |                               |
|-----------------------------------------------------------------------|-------------------------------|
| <b>Material:</b> UL94 V-2 Nylon 6/6, RMS-01*<br><b>Color:</b> Natural | <b>"A"</b><br>Standoff Height |
| PSM-2-01                                                              | 1/8 (3.2)                     |
| PSM-3-01                                                              | 3/16 (4.8)                    |
| PSM-4-01                                                              | 1/4 (6.4)                     |
| PSM-5-01                                                              | 5/16 (7.9)                    |
| PSM-6-01                                                              | 3/8 (9.5)                     |
| PSM-7-01                                                              | 7/16 (11.1)                   |
| PSM-8-01                                                              | 1/2 (12.7)                    |
| PSM-9-01                                                              | 9/16 (14.3)                   |
| PSM-10-01                                                             | 5/8 (15.9)                    |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19.

## PSC

### Push Spacer with Cushion

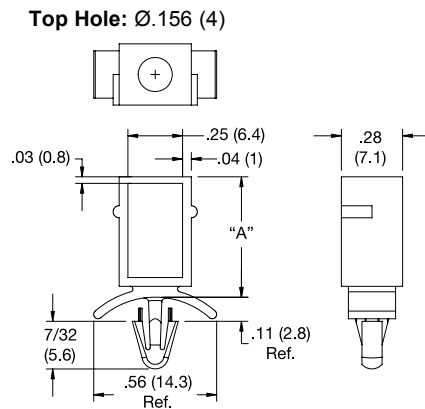
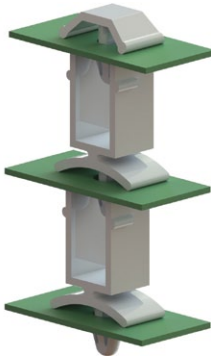


| Standard Pack: 1,000 per bag                                                         |                                |
|--------------------------------------------------------------------------------------|--------------------------------|
| Material: UL94 HB Impact Modified Nylon 6/6, UV Stabilized, RMS-73<br>Color: Natural | "A" Spacer Length Uncompressed |
| PSC-1                                                                                | 3/8 (9.5)                      |
| PSC-2                                                                                | 1/2 (12.7)                     |
| PSC-3                                                                                | 5/8 (15.9)                     |
| PSC-4                                                                                | 3/4 (19.1)                     |

Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .031-.078 (0.79-1.98)

## CBSS

### Circuit Board Stacking Spacer



| Standard Pack: 1,000 per bag                           |                                                    |                     |
|--------------------------------------------------------|----------------------------------------------------|---------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-01<br>Color: Natural | Material: UL94 V-0 Nylon, RMS-19<br>Color: Natural | "A" Standoff Height |
| CBSS-8-01                                              | CBSS-8-19                                          | .43 (10.9)          |
| CBSS-10-01                                             | CBSS-10-19                                         | .55 (14)            |
| CBSS-12-01                                             | CBSS-12-19                                         | .68 (17.3)          |
| CBSS-14-01                                             | CBSS-14-19                                         | .80 (20.3)          |

Available by special order; 5,000 piece minimum.

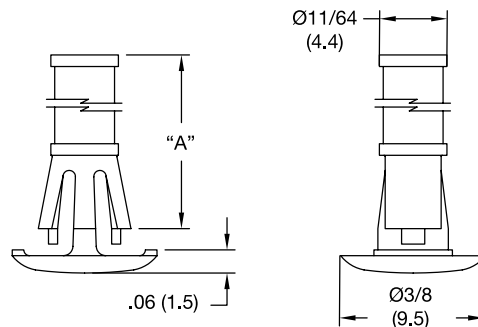
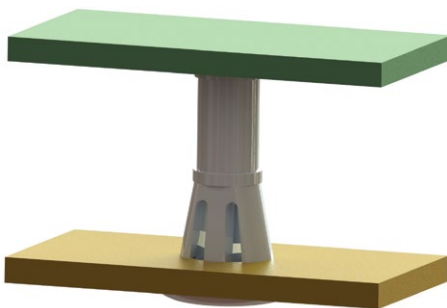
Bottom Hole: Snap-lock: .156 (4)  
Panel Thickness: .031 - .078 (0.79 - 1.98)

### Features

- Use the MB-1-156 mounting buttons to top off the stack, please see page 52

## RLCBSRS

### Reverse Locking Circuit Board Support



| Standard Pack: 1,000 per bag                            |                     |
|---------------------------------------------------------|---------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural | "A" Standoff Height |
| RLCBSRS-4-01                                            | 1/4 (6.4)           |
| RLCBSRS-5-01                                            | 5/16 (7.9)          |
| RLCBSRS-6-01                                            | 3/8 (9.5)           |
| RLCBSRS-7-01                                            | 7/16 (11.1)         |
| RLCBSRS-8-01                                            | 1/2 (12.7)          |
| RLCBSRS-9-01                                            | 9/16 (14.3)         |
| RLCBSRS-10-01                                           | 5/8 (15.9)          |

\*Available in UL94 V-0 material by special order.  
To order, replace -01 with -19.

Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .059 - .063 (1.5 - 1.6)

# CIRCUIT BOARD HARDWARE

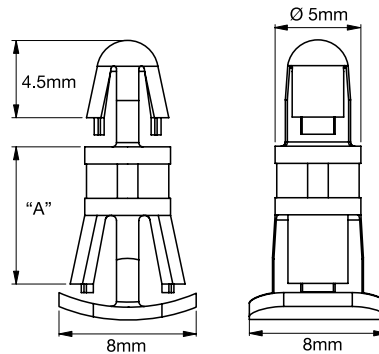
A

## RLCBSA

Metric Reverse Lock Circuit Board Support

**NEW**

Top Hole: Snap-lock: 4mm  
Panel Thickness: 1.6mm



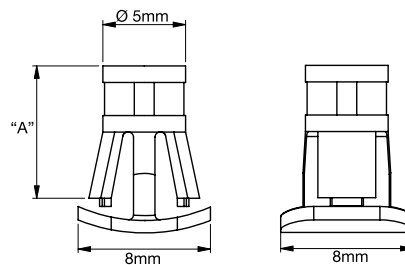
Bottom Hole: Snap-lock: 5.5mm  
Panel Thickness: 0.5mm - 1mm

| Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural                    |                              | Standard Package:<br>1,000 per bag |
|--------------------------------------------------------------------------------------|------------------------------|------------------------------------|
| Part No.                                                                             | "A"<br>Standoff Height<br>mm |                                    |
| RLCBSA-5-01                                                                          | 5                            |                                    |
| RLCBSA-6-01                                                                          | 6                            |                                    |
| RLCBSA-8-01                                                                          | 8                            |                                    |
| RLCBSA-10-01                                                                         | 10                           |                                    |
| RLCBSA-12-01                                                                         | 12                           |                                    |
| RLCBSA-14-01                                                                         | 14                           |                                    |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19. |                              |                                    |

## RLCBSB

Metric Reverse Lock Circuit Board Support Push Spacer

**NEW**



Bottom Hole: Snap-lock: 5.5mm  
Panel Thickness: 0.5mm - 1mm

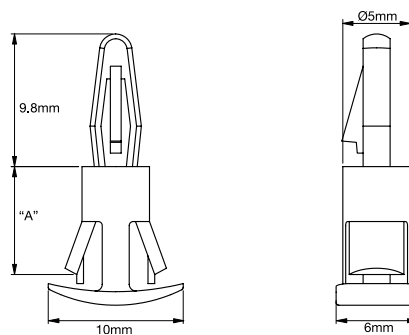
| Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural                    |                              | Standard Package:<br>1,000 per bag |
|--------------------------------------------------------------------------------------|------------------------------|------------------------------------|
| Part No.                                                                             | "A"<br>Standoff Height<br>mm |                                    |
| RLCBSB-5-01                                                                          | 5                            |                                    |
| RLCBSB-6-01                                                                          | 6                            |                                    |
| RLCBSB-8-01                                                                          | 8                            |                                    |
| RLCBSB-10-01                                                                         | 10                           |                                    |
| RLCBSB-12-01                                                                         | 12                           |                                    |
| RLCBSB-14-01                                                                         | 14                           |                                    |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19. |                              |                                    |

## RLCBSC

Metric Reverse Lock Circuit Board Support

**NEW**

Top Hole: Snap-lock: 3.2mm  
Panel Thickness: 1.6mm



Bottom Hole: Snap-lock: 5.4mm  
Panel Thickness: 0.8mm

| Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural                    |                              | Standard Package:<br>1,000 per bag |
|--------------------------------------------------------------------------------------|------------------------------|------------------------------------|
| Part No.                                                                             | "A"<br>Standoff Height<br>mm |                                    |
| RLCBSC-5-01                                                                          | 5                            |                                    |
| RLCBSC-6-01                                                                          | 6                            |                                    |
| RLCBSC-8-01                                                                          | 8                            |                                    |
| RLCBSC-10-01                                                                         | 10                           |                                    |
| RLCBSC-12-01                                                                         | 12                           |                                    |
| RLCBSC-14-01                                                                         | 14                           |                                    |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19. |                              |                                    |



## RLCBSR/RCBSR

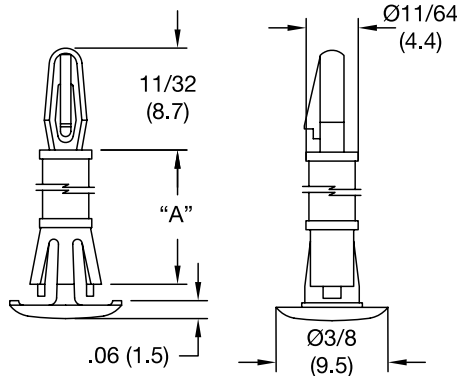
Reverse Mounted Circuit Board  
Support Round Hole



RLCBSR

Top Hole: Snap-lock: .125 (3.18)  
Panel Thickness: .062 (1.57)

Fig. 1

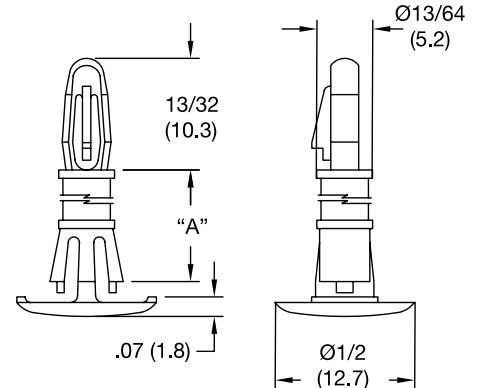


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .059 - .063 (1.5 - 1.6)

RLCBSRE

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 2

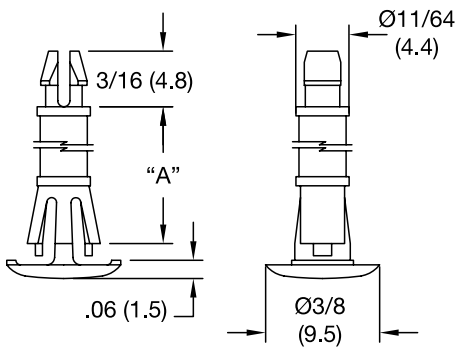


Bottom Hole: Snap-lock: .213 (5.41)  
Panel Thickness: .059 - .065 (1.5 - 1.65)

RLCBSR1

Top Hole: Snap-lock: .125 (3.18)  
Panel Thickness: .062 (1.57)

Fig. 3

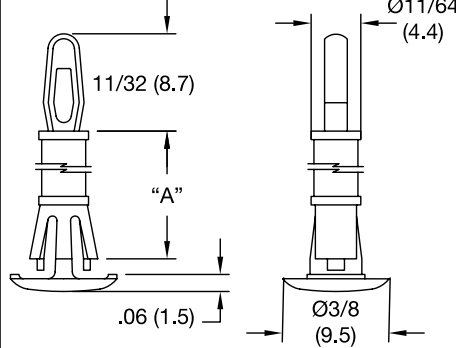


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .059 - .063 (1.5 - 1.6)

RCBSR

Top Hole: Snap-fit: .125 (3.18)  
Panel Thickness: .062 (1.57)

Fig. 4

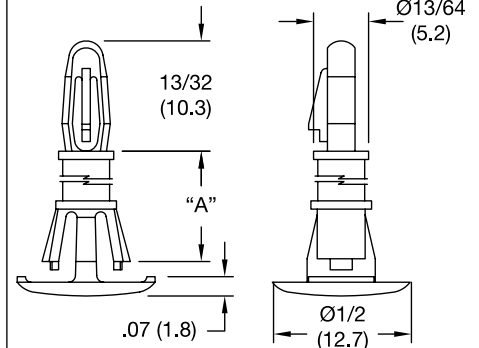


Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .059 - .063 (1.5 - 1.6)

RLCBSR1

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 5



Bottom Hole: Snap-lock: .250 (6.35)  
Panel Thickness: .059 - .065 (1.5 - 1.65)

| RLCBSR (Fig. 1)                                                   | RLCBSRE (Fig. 2)                                                  | RLCBSR1 (Fig. 3)                                                  | RCBSR (Fig. 4)                                                    | RLCBSR1 (Fig. 5)                                                  | Standard Pack:<br>1,000 per bag |
|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural | "A"<br>Standoff Height          |
| RLCBSR-4-01                                                       | RLCBSRE-4-01                                                      | RLCBSR1-4-01                                                      | RCBSR-4-01                                                        | RLCBSR1-4-01                                                      | 1/4 (6.4)                       |
| RLCBSR-5-01                                                       | -                                                                 | RLCBSR1-5-01                                                      | RCBSR-5-01                                                        | -                                                                 | 5/16 (7.9)                      |
| RLCBSR-6-01                                                       | RLCBSRE-6-01                                                      | RLCBSR1-6-01                                                      | RCBSR-6-01                                                        | RLCBSR1-6-01                                                      | 3/8 (9.5)                       |
| RLCBSR-7-01                                                       | -                                                                 | RLCBSR1-7-01                                                      | RCBSR-7-01                                                        | -                                                                 | 7/16 (11.1)                     |
| RLCBSR-8-01                                                       | RLCBSRE-8-01                                                      | RLCBSR1-8-01                                                      | RCBSR-8-01                                                        | RLCBSR1-8-01                                                      | 1/2 (12.7)                      |
| RLCBSR-9-01                                                       | -                                                                 | RLCBSR1-9-01                                                      | RCBSR-9-01                                                        | -                                                                 | 9/16 (14.3)                     |
| RLCBSR-10-01                                                      | RLCBSRE-10-01                                                     | RLCBSR1-10-01                                                     | RCBSR-10-01                                                       | RLCBSR1-10-01                                                     | 5/8 (15.9)                      |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19.

## CRLCBSR/RLCBSK

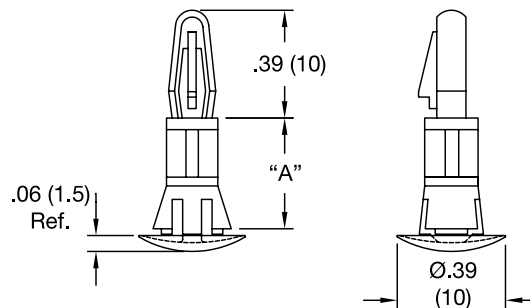
Cupped Reverse Locking  
Circuit Board Support



### CRLCBSR

Top Hole: Snap-lock: .157 (4)  
Panel Thickness: .063 (1.6)

Fig. 1

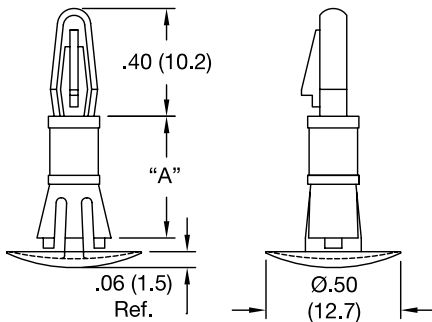


Bottom Hole: Snap-lock: .236 (6)  
Panel Thickness: .031 - .047 (0.8 - 1.2)

### CRLCBSRE

Top Hole: Snap-lock: .157 (4)  
Panel Thickness: .063 (1.6)

Fig. 2

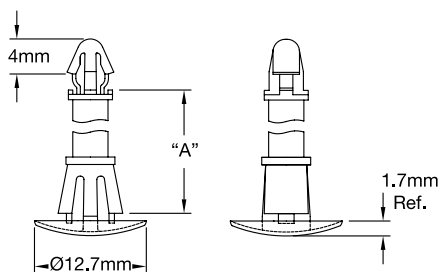


Bottom Hole: Snap-lock: .213 (5.4)  
Panel Thickness: .047 - .079 (1.2 - 2)

### CRLCBSK-2

Top Hole: Snap-lock: 4mm  
Panel Thickness: 1.6mm

Fig. 3

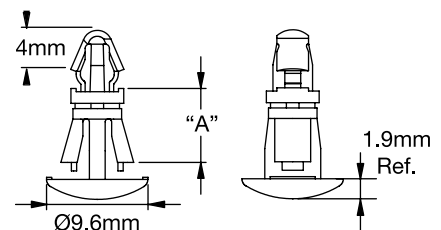


Bottom Hole: Snap-lock: 5.4mm  
Panel Thickness: 1mm - 1.6mm

### RLCBSK

Top Hole: Snap-lock: 4mm  
Panel Thickness: 1.6mm

Fig. 4



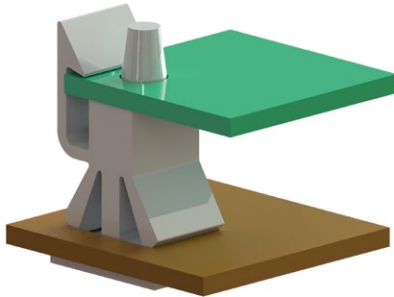
Bottom Hole: Snap-lock: 5.4mm  
Panel Thickness: RLCBSK: 1.6mm, RLCBSK-2: 2mm

| CRLCBSR (Fig. 1)                                                                  | CRLCBSRE (Fig. 2)                                          | Standard Pack:<br>1,000 per bag |
|-----------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural                        | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff Height          |
| CRLCBSR-3-01                                                                      | -                                                          | 3/16 (4.8)                      |
| CRLCBSR-4-01                                                                      | CRLCBSRE-4-01                                              | 1/4 (6.4)                       |
| CRLCBSR-5-01                                                                      | -                                                          | 5/16 (7.9)                      |
| CRLCBSR-6-01                                                                      | CRLCBSRE-6-01                                              | 3/8 (9.5)                       |
| CRLCBSR-8-01                                                                      | CRLCBSRE-8-01                                              | 1/2 (12.7)                      |
| -                                                                                 | CRLCBSRE-10-01                                             | 5/8 (15.9)                      |
| CRLCBSR-12-01                                                                     | -                                                          | 3/4 (19.1)                      |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                                                            |                                 |

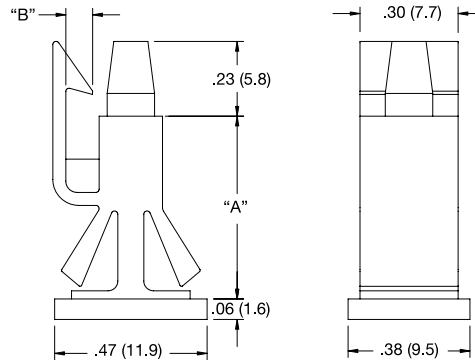
| CRLCBSK-2 (Fig. 3)                                               | RLCBSK (Fig. 4)                                            | Standard Pack: 1,000 per bag |
|------------------------------------------------------------------|------------------------------------------------------------|------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural       | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff Height<br>mm |
| -                                                                | RLCBSK-6-01                                                | 6                            |
| -                                                                | RLCBSK-7-01                                                | 7                            |
| CRLCBSK-2-8-01                                                   | RLCBSK-8-01                                                | 8                            |
| CRLCBSK-2-10-01                                                  | RLCBSK-10-01                                               | 10                           |
| CRLCBSK-2-12-01                                                  | RLCBSK-12-01                                               | 12                           |
| CRLCBSK-2-14-01                                                  | RLCBSK-14-01                                               | 14                           |
| -                                                                | RLCBSK-16-01                                               | 16                           |
| -                                                                | RLCBSK-2-6-01                                              | 6                            |
| -                                                                | RLCBSK-2-7-01                                              | 7                            |
| -                                                                | RLCBSK-2-8-01                                              | 8                            |
| -                                                                | RLCBSK-2-10-01                                             | 10                           |
| -                                                                | RLCBSK-2-12-01                                             | 12                           |
| -                                                                | RLCBSK-2-14-01                                             | 14                           |
| -                                                                | RLCBSK-2-16-01                                             | 16                           |
| *Available in UL94 V-0 material. To order, replace -01 with -19. |                                                            |                              |
| Available by special order; 5,000 piece minimum.                 |                                                            |                              |

## RLEHCBS

### Reverse Locking Edge Holding Circuit Board Support



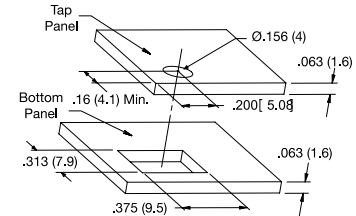
Top Hole: Fit: .156 (4)  
Panel Thickness: .063 (1.6)



Bottom Hole: Snap-lock: .313 (7.9) x .375 (9.5) Square  
Panel Thickness: .063 (1.6)

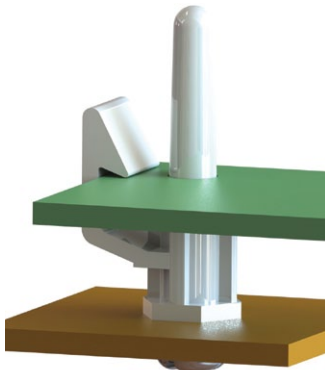
| Standard Pack: 1,000 per bag                                                               |                        |           |
|--------------------------------------------------------------------------------------------|------------------------|-----------|
| Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Black                            | "A"<br>Standoff Height | "B"       |
| RLEHCBS-5-01BK                                                                             | .38 (9.5)              | .06 (1.5) |
| RLEHCBS-6-01BK                                                                             | .44 (11.1)             |           |
| RLEHCBS-7-01BK                                                                             | .50 (12.7)             | .08 (2.1) |
| RLEHCBS-8-01BK                                                                             | .56 (14.3)             |           |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19.          |                        |           |
| Natural color also available by special order. To order, remove "BK" from the part number. |                        |           |

#### Mounting Hole Detail

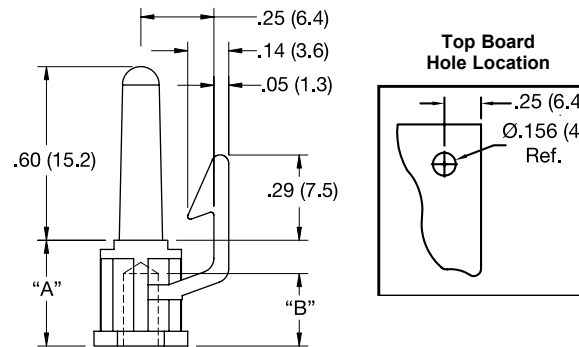


## TEHCBS

### Edge Holding Circuit Board Support



Top Hole: Fit: .156 (4)  
Panel Thickness: .062 (1.57)

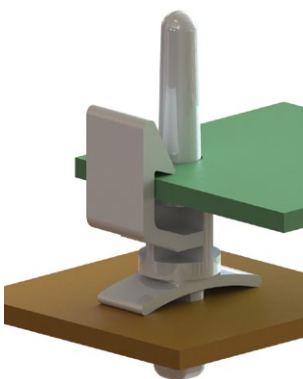


Bottom Hole: For Metal #6 Self-Tapping Screw

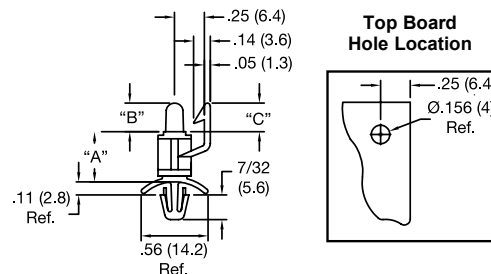
| Standard Pack: 1,000 per bag                                                              |                           |           |
|-------------------------------------------------------------------------------------------|---------------------------|-----------|
| Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural                         | "A"<br>Standoff<br>Height | "B"       |
| TEHCBS-4-01                                                                               | 1/4 (6.4)                 | .25 (6.4) |
| TEHCBS-5-01                                                                               | 5/16 (7.9)                | .20 (5.2) |
| TEHCBS-6-01                                                                               | 3/8 (9.5)                 | .25 (6.4) |
| TEHCBS-8-01                                                                               | 1/2 (12.7)                |           |
| TEHCBS-10-01                                                                              | 5/8 (15.9)                |           |
| TEHCBS-12-01                                                                              | 3/4 (19.1)                |           |
| TEHCBS-14-01                                                                              | 7/8 (22.2)                |           |
| TEHCBS-16-01                                                                              | 1 (25.4)                  |           |
| *Available in UL94 V-0 material by special order<br>only. To order, replace -01 with -19. |                           |           |

## EHCBS

### Edge Holding Circuit Board Support



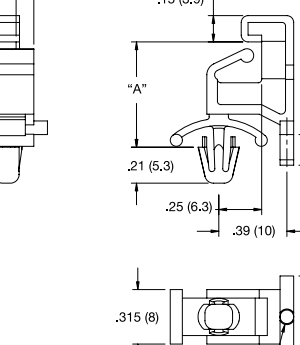
Top Hole: Fit: .156 (4)  
Panel Thickness: .062 (1.57)



Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .031 - .078 (1.79 - 1.98)

| Material: UL94 V-2 Nylon 6/6, RMS-01* Color: Natural<br>Standard Pack: 1,000 per bag   |                                    |                                    |                        |
|----------------------------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------|
| "B" = .60 (15.2)<br>"C" = .29 (7.5)                                                    | "B" = .24 (6.1)<br>"C" = .24 (6.1) | "B" = .24 (6.1)<br>"C" = .29 (7.5) | "A"<br>Standoff Height |
| EHCBS-5-01                                                                             | EHCBS-6-5-01                       | EHCBS-7-5-01                       | 5/16 (7.9)             |
| EHCBS-6-01                                                                             | EHCBS-6-6-01                       | EHCBS-7-6-01                       | 3/8 (9.5)              |
| EHCBS-8-01                                                                             | EHCBS-6-8-01                       | EHCBS-7-8-01                       | 1/2 (12.7)             |
| EHCBS-10-01                                                                            | EHCBS-6-10-01                      | EHCBS-7-10-01                      | 5/8 (15.9)             |
| EHCBS-12-01                                                                            | EHCBS-6-12-01                      | EHCBS-7-12-01                      | 3/4 (19.1)             |
| EHCBS-14-01                                                                            | EHCBS-6-14-01                      | EHCBS-7-14-01                      | 7/8 (22.2)             |
| EHCBS-16-01                                                                            | EHCBS-6-16-01                      | EHCBS-7-16-01                      | 1 (25.4)               |
| *Available in UL94 V-0 material by special order only. To order, replace -01 with -19. |                                    |                                    |                        |
| Available by special order only; 5,000 piece minimum                                   |                                    |                                    |                        |





Technical drawing of the 1000 Series 1/2" (12.7mm) O.D. Tube Fitting, showing three views: front, side, and top.

**Front View Dimensions:**

- Overall Length: .315 (8)
- Threaded Section Length: .110 (2.8)

**Side View Dimensions:**

- Top Flange Thickness: .15 (3.9)
- Distance from Top Flange to Bottom Flange: "A"
- Distance from Top Flange to Bottom Flange (Alternative Label): .21 (5.3)
- Distance from Bottom Flange to Bottom Flange: .25 (6.3)
- Distance from Bottom Flange to Bottom Flange (Alternative Label): .39 (10)
- Bottom Flange Thickness: .18 (4.5)

**Top View Dimensions:**

- Overall Width: .315 (8)
- Distance from Center to Bottom Flange: .47 (12)
- Distance from Center to Bottom Flange (Alternative Label): .71 (18.1)
- Bottom Flange Thickness: .091 (2.3)
- Reference: Ref.

## A 3D CAD rendering of a mechanical assembly. It features a green rectangular plate at the top, a grey vertical post in the middle, and a yellow rectangular base at the bottom. The post has a flange at the top and a hexagonal base. A small green cylindrical component is visible between the plate and the post.

### Mounting Hole Detail

Diagram illustrating a corner mount configuration. A **Chassis** is shown on the left, and a **Board** is shown on the right. A **Corner Mount** is positioned at the intersection of the chassis and board. The corner mount is a circular component with a central 'x' and a dashed line indicating its orientation. The distance from the corner mount to the board edge is dimensioned as  $.040 (1)$ .

Diagram illustrating an Edge Mount configuration. A board is shown attached to a chassis. The board thickness is dimensioned as .032 (0.8). The board is mounted on the chassis, and the connection is labeled "Edge Mount".

| UBM (Fig. 1)                                                                           | UBMC (Fig. 2)                                                                          | Standard Pack:<br>500 per bag  |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------|
| <b>Material:</b> UL94 V-2<br><b>Nylon 6/6, <i>RMS-01*</i></b><br><b>Color:</b> Natural | <b>Material:</b> UL94 V-2<br><b>Nylon 6/6, <i>RMS-01*</i></b><br><b>Color:</b> Natural | <b>“A”<br/>Standoff Height</b> |
| UBM-12.3M-01                                                                           | UBMC-12.3M-01                                                                          | .48 (12.3)                     |
| UBM-15.5M-01                                                                           | UBMC-15.5M-01                                                                          | .61 (15.5)                     |
| UBM-22.0M-01                                                                           | UBMC-22.0M-01                                                                          | .87 (22)                       |
| <i>*Available in UL94 V-0 material. To order, replace -01 with -19.</i>                |                                                                                        |                                |

| Material: UL94 V-2<br>Nylon 6/6, <b>RMS-01*</b><br>Color: Natural                                  | Standard Pack:<br>1,000 per bag |             |
|----------------------------------------------------------------------------------------------------|---------------------------------|-------------|
|                                                                                                    | "A"<br>Standoff Height          | "B"         |
| TCEHCBS-4-01                                                                                       | 1/4 (6.4)                       | 13/64 (5.2) |
| TCEHCBS-6-01                                                                                       | 3/8 (9.5)                       | 5/16 (7.9)  |
| TCEHCBS-8-01                                                                                       | 1/2 (12.7)                      |             |
| TCEHCBS-10-01                                                                                      | 5/8 (15.9)                      |             |
| TCEHCBS-12-01                                                                                      | 3/4 (19.1)                      |             |
| TCEHCBS-14-01                                                                                      | 7/8 (22.2)                      |             |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19.                  |                                 |             |
| MSCEHCBS-XX-01 with .250 (6.35) "B" Dimension, M4 threaded stud bottom available by special order. |                                 |             |

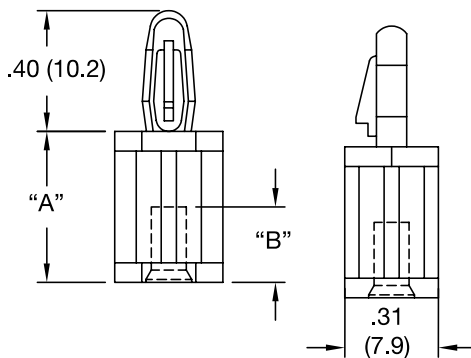


## TCBS

### Circuit Board Support Self-Tapping



Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)



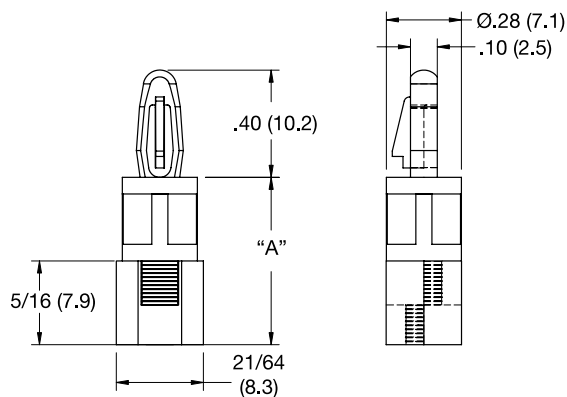
| Standard Pack: 1,000 per bag                                 |                                                              |                           |             |
|--------------------------------------------------------------|--------------------------------------------------------------|---------------------------|-------------|
| Material: UL94 V-2<br>Nylon 6/6,<br>RMS-01<br>Color: Natural | Material: UL94 V-0<br>Nylon 6/6,<br>RMS-19<br>Color: Natural | "A"<br>Standoff<br>Height | "B"         |
| TCBS-4-01                                                    | TCBS-4-19                                                    | 1/4 (6.4)                 | 13/64 (5.2) |
| TCBS-6-01                                                    | TCBS-6-19                                                    | 3/8 (9.5)                 | 5/16 (7.9)  |
| TCBS-8-01                                                    | TCBS-8-19                                                    | 1/2 (12.7)                |             |
| TCBS-10-01                                                   | TCBS-10-19                                                   | 5/8 (15.9)                |             |
| TCBS-12-01                                                   | TCBS-12-19                                                   | 3/4 (19.1)                |             |
| TCBS-14-01                                                   | TCBS-14-19                                                   | 7/8 (22.2)                |             |
| TCBS-16-01                                                   | TCBS-16-19                                                   | 1 (25.4)                  |             |
| TCBS-18-01                                                   | TCBS-18-19                                                   | 1-1/8 (28.6)              |             |
| TCBS-20-01                                                   | TCBS-20-19                                                   | 1-1/4 (31.7)              |             |
| TCBS-22.5-01                                                 | TCBS-22.5-19                                                 | 1-13/32 (35.7)            |             |

Bottom Hole: For Metal #6  
Self-Tapping Screw

## LCBS-TF

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 1

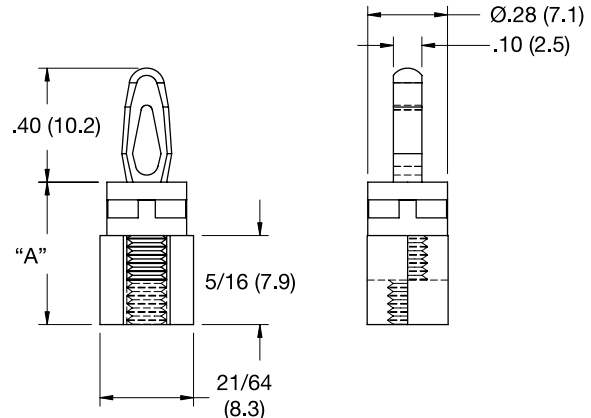


Bottom Hole: #6-32 Thread,  
Special Order: M4 Thread

## CBS-TF

Top Hole: Snap-fit: .156 (4)  
Panel Thickness: .062 (1.57)

Fig. 2



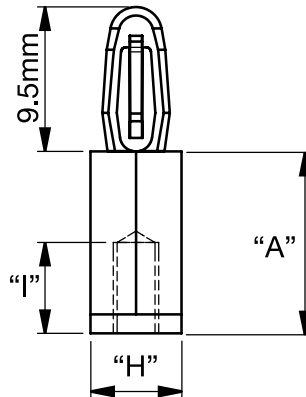
Bottom Hole: #6-32 Thread,  
Special Order: M4 Thread

| LCBS-TF (Fig. 1)                                                                  | LCBS-TF-M4 (Fig. 1)                                        | CBS-TF (Fig. 2)                                           |                                                           | CBS-TF-M4 (Fig. 2)                                         | Standard Pack:<br>1,000 per bag |
|-----------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------|---------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural                        | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural | Material: UL94 V-0<br>Nylon 6/6, RMS-19<br>Color: Natural | Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff Height          |
| Thread: #6-32                                                                     | Thread: M4                                                 | Thread: #6-32                                             | Thread: #6-32                                             | Thread: M4                                                 |                                 |
| LCBS-TF-6-01                                                                      | LCBS-TF-M4-6-01                                            | CBS-TF-6-01                                               | CBS-TF-6-19                                               | CBS-TF-M4-6-01                                             | 3/8 (9.5)                       |
| LCBS-TF-8-01                                                                      | LCBS-TF-M4-8-01                                            | CBS-TF-8-01                                               | CBS-TF-8-19                                               | CBS-TF-M4-8-01                                             | 1/2 (12.7)                      |
| LCBS-TF-10-01                                                                     | LCBS-TF-M4-10-01                                           | CBS-TF-10-01                                              | CBS-TF-10-19                                              | CBS-TF-M4-10-01                                            | 5/8 (15.9)                      |
| LCBS-TF-12-01                                                                     | LCBS-TF-M4-12-01                                           | CBS-TF-12-01                                              | CBS-TF-12-19                                              | CBS-TF-M4-12-01                                            | 3/4 (19.1)                      |
| LCBS-TF-14-01                                                                     | LCBS-TF-M4-14-01                                           | CBS-TF-14-01                                              | CBS-TF-14-19                                              | CBS-TF-M4-14-01                                            | 7/8 (22.2)                      |
| LCBS-TF-16-01                                                                     | LCBS-TF-M4-16-01                                           | CBS-TF-16-01                                              | CBS-TF-16-19                                              | CBS-TF-M4-16-01                                            | 1 (25.4)                        |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                                                            |                                                           |                                                           |                                                            |                                 |
| Available by special order; 5,000 piece minimum.                                  |                                                            |                                                           |                                                           |                                                            |                                 |

## TCBN Metric Female Threaded Circuit Board Support



Top Hole: Snap-lock: 4mm  
Panel Thickness: See Table



Bottom Hole: See Table for Female Thread Size

Material: UL94 HB Nylon 6/6, RMS-172 Color: Black

Standard Pack: 500 per bag

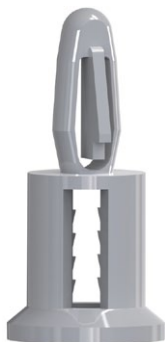
| Part No.       | Thread | Panel Thickness mm | "H" mm | "A" Standoff Height (1mm increments) |
|----------------|--------|--------------------|--------|--------------------------------------|
| TCBN-T1-M3-6-L | M3     | 1.6                | 6      | 5 - 61                               |
| TCBN-T1-M3-8-L |        |                    | 8      |                                      |
| TCBN-T2-M3-6-L |        | 2                  | 6      |                                      |
| TCBN-T2-M3-8-L |        |                    | 8      |                                      |
| TCBN-T1-M4-8-L | M4     | 1.6                | 8      |                                      |
| TCBN-T2-M4-8-L |        | 2                  | 8      |                                      |

Replace 'L' in the part number with your required standoff length.

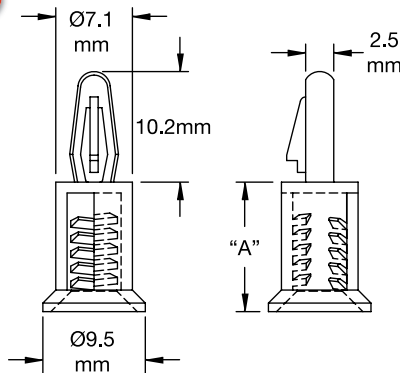
Available by special order; 5,000 piece minimum.

| "A" Standoff Height mm | "H" mm |
|------------------------|--------|
| 5                      | 3      |
| 6                      | 4      |
| 7                      | 5      |
| 8                      | 6      |
| 9                      | 7      |
| 10                     | 8      |
| 11                     | 9      |
| 12 - 61                | 10     |

## SFCBS Metric Stud Fitting Circuit Board Support



Top Hole: Snap-lock: 4mm  
Panel Thickness: 1.57mm

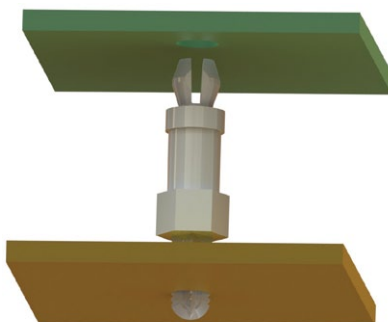


Bottom Hole: To fit a metal #8 (M4) screw or stud

| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Standard Pack: 1,000 per bag |                |
|------------------------------------------------------------|------------------------------|----------------|
|                                                            | "A" Standoff Height mm       | Stud Length mm |
| SFCBS-M4-10M-01                                            | 10                           | 8              |
| SFCBS-M4-12M-01                                            | 12                           | 10             |
| SFCBS-M4-14M-01                                            | 14                           | 12             |
| SFCBS-M4-16M-01                                            | 16                           | 14             |
| SFCBS-M4-18M-01                                            | 18                           | 16             |
| SFCBS-M4-20M-01                                            | 20                           | 18             |

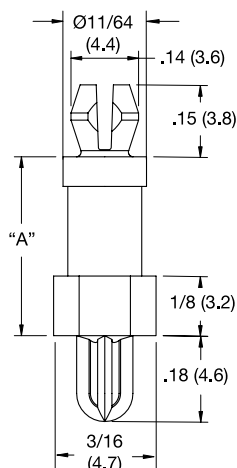
\*Available in UL94 V-0 material by special order.  
To order, replace -01 with -19.

## MSPMST Mini Support Post Self-Threading



Patent Pending

Top Hole: Snap-fit: .125 (3.18)  
Panel Thickness: .062 (1.57)

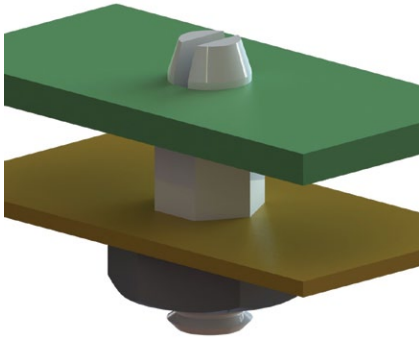


Bottom Hole: Self-Thread into a #4 or M3 Threaded Hole or Nut  
Panel Thickness: .063 (1.6) Minimum Engagement

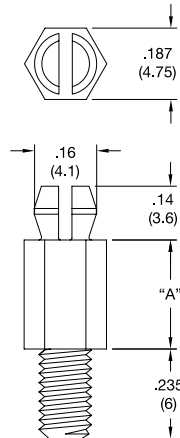
| Standard Pack: 1,000 per bag                              |                     |
|-----------------------------------------------------------|---------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural | "A" Standoff Height |
| MSPMST-2-01                                               | 1/8 (3.2)           |
| MSPMST-3-01                                               | 3/16 (4.8)          |
| MSPMST-4-01                                               | 1/4 (6.4)           |
| MSPMST-5-01                                               | 5/16 (7.9)          |
| MSPMST-6-01                                               | 3/8 (9.5)           |
| MSPMST-7-01                                               | 7/16 (11.1)         |
| MSPMST-8-01                                               | 1/2 (12.7)          |
| MSPMST-9-01                                               | 9/16 (14.3)         |
| MSPMST-10-01                                              | 5/8 (15.9)          |

A

## HMSP-TM Hex Mini Support Post Threaded Male



Top Hole: Snap-fit: .152 (3.86)  
Panel Thickness: .062 (1.57)



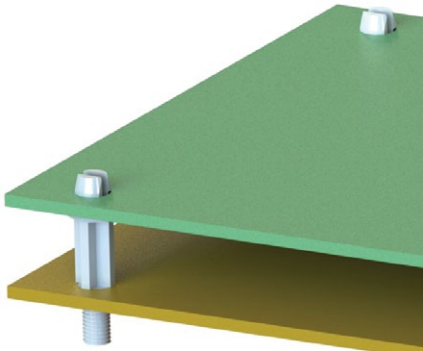
Bottom Hole: #6-32 Male Thread  
Special Order: M3 and M4 Thread

| Standard Pack: 1,000 per bag                                                      |                        |
|-----------------------------------------------------------------------------------|------------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural                           | "A"<br>Standoff Height |
| Thread #6-32                                                                      |                        |
| HMSP-TM-2-01                                                                      | 1/8 (3.2)              |
| HMSP-TM-3-01                                                                      | 3/16 (4.8)             |
| HMSP-TM-4-01                                                                      | 1/4 (6.4)              |
| HMSP-TM-6-01                                                                      | 3/8 (9.5)              |
| HMSP-TM-8-01                                                                      | 1/2 (12.7)             |
| HMSP-TM-10-01                                                                     | 5/8 (15.9)             |
| HMSP-TM-12-01                                                                     | 3/4 (19.1)             |
| HMSP-TM-14-01                                                                     | 7/8 (22.2)             |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                        |
| M3 and M4 Threads available by special order.                                     |                        |

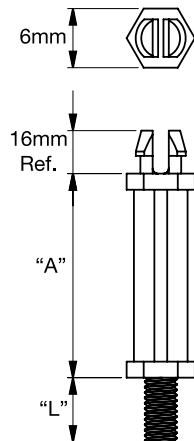
### Features

- See page 60 for mating nuts

## TCBNS-2 Metric Hex Support Post Threaded Male



Top Hole: Snap-lock: See Table  
Panel Thickness: 1.6mm



Bottom Hole: M2.5, M3 or M4 Male Thread (See Table)

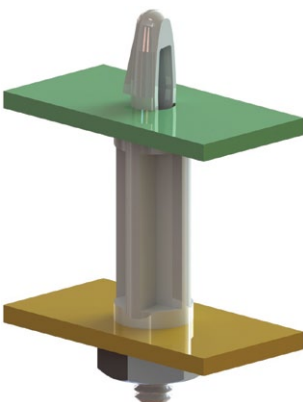
| Material: UL94 V-2 Nylon 6/6, RMS-172<br>Color: Black |                                              | Standard Pack: 1,000 per bag                     |                                 |
|-------------------------------------------------------|----------------------------------------------|--------------------------------------------------|---------------------------------|
| Top Hole Ø: 3mm<br>"L" Thread Length:<br>6mm          | Top Hole Ø: 3mm<br>"L" Thread Length:<br>6mm | Top Hole Ø: 3.8mm<br>"L" Thread Length:<br>6.4mm | "A"<br>Standoff<br>Height<br>mm |
| Thread: M2.5                                          | Thread: M3                                   | Thread: M4                                       |                                 |
| TCBNS-M2.5-3                                          | TCBNS-M3-3                                   | TCBNS-M4-3                                       | 3                               |
| TCBNS-M2.5-5                                          | TCBNS-M3-5                                   | TCBNS-M4-5                                       | 4                               |
| TCBNS-M2.5-6                                          | TCBNS-M3-6                                   | TCBNS-M4-6                                       | 6                               |
| TCBNS-M2.5-8                                          | TCBNS-M3-8                                   | TCBNS-M4-8                                       | 8                               |
| TCBNS-M2.5-10                                         | TCBNS-M3-10                                  | TCBNS-M4-10                                      | 10                              |
| TCBNS-M2.5-12                                         | TCBNS-M3-12                                  | TCBNS-M4-12                                      | 12                              |
| TCBNS-M2.5-15                                         | TCBNS-M3-15                                  | TCBNS-M4-15                                      | 15                              |
| TCBNS-M2.5-20                                         | TCBNS-M3-20                                  | TCBNS-M4-20                                      | 20                              |



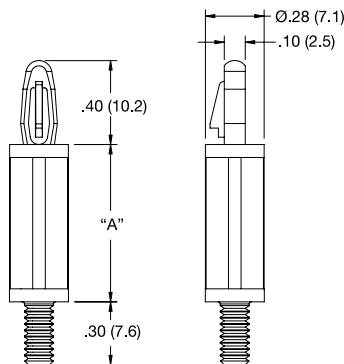
### Features

- See page 60 for mating nuts

## LCBS-TM Locking Circuit Board Support Threaded Male



Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)



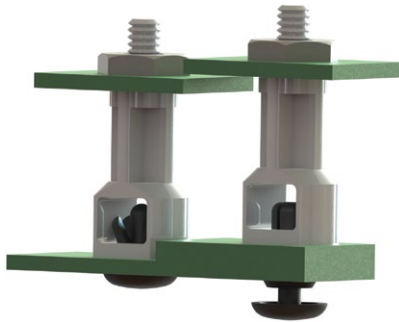
Bottom Hole: #6-32 Male Thread  
Special Order: M4 Thread

| LCBS-TM                                                                           |                                                        | LCBS-TM-M4                                              | Standard Pack: 1,000 per bag |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------|------------------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-01<br>Color: Natural                            | Material: UL94 V-0 Nylon 6/6, RMS-19<br>Color: Natural | Material: UL94 V-2 Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff<br>Height    |
| Thread: #6-32                                                                     | Thread: #6-32                                          | Thread: M4                                              |                              |
| LCBS-TM-4-01                                                                      | LCBS-TM-4-19                                           | LCBS-TM-M4-4-01                                         | 1/4 (6.4)                    |
| LCBS-TM-6-01                                                                      | LCBS-TM-6-19                                           | LCBS-TM-M4-6-01                                         | 3/8 (9.5)                    |
| LCBS-TM-8-01                                                                      | LCBS-TM-8-19                                           | LCBS-TM-M4-8-01                                         | 1/2 (12.7)                   |
| LCBS-TM-10-01                                                                     | LCBS-TM-10-19                                          | LCBS-TM-M4-10-01                                        | 5/8 (15.9)                   |
| LCBS-TM-12-01                                                                     | LCBS-TM-12-19                                          | LCBS-TM-M4-12-01                                        | 3/4 (19.1)                   |
| LCBS-TM-14-01                                                                     | LCBS-TM-14-19                                          | LCBS-TM-M4-14-01                                        | 7/8 (22.2)                   |
| LCBS-TM-16-01                                                                     | LCBS-TM-16-19                                          | LCBS-TM-M4-16-01                                        | 1 (25.4)                     |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19. |                                                        |                                                         |                              |
| Available by special order; 5,000 piece minimum.                                  |                                                        |                                                         |                              |

### Features

- See page 60 for mating nuts

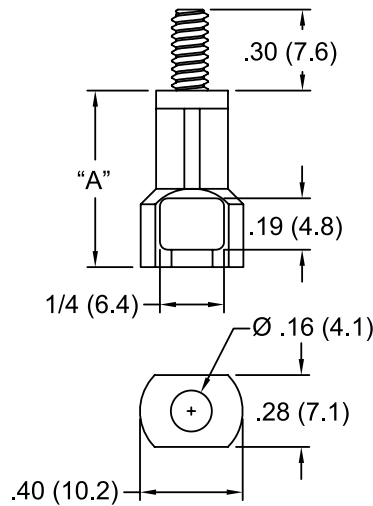
## SRSCBS Snap Rivet Studded Circuit Board Support



### Features

- See page 60 for mating nuts

Top Hole: #6-32 Male Thread  
Special Order: M3 and M4 Thread

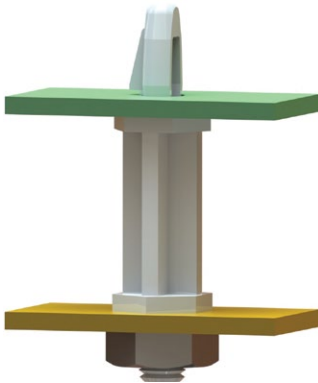


Bottom Hole: Snap Rivet: .161 - .165 (4.1 - 4.2)  
Panel Thickness: See Rivet Table

|                                                                                      |                                 |
|--------------------------------------------------------------------------------------|---------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural                           | Standard Pack:<br>1,000 per bag |
|                                                                                      | "A" Standoff Height             |
| SRSCBS-6-01                                                                          | 3/8 (9.5)                       |
| SRSCBS-7-01                                                                          | 7/16 (11.1)                     |
| SRSCBS-8-01                                                                          | 1/2 (12.7)                      |
| SRSCBS-10-01                                                                         | 5/8 (15.9)                      |
| SRSCBS-12-01                                                                         | 3/4 (19.1)                      |
| SRSCBS-14-01                                                                         | 7/8 (22.2)                      |
| SRSCBS-16-01                                                                         | 1 (25.4)                        |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19. |                                 |
| Available by special order; 5,000 piece minimum.                                     |                                 |
| Available with M3 & M4 metric threads by special order                               |                                 |

| Use Richco Rivet Part No. | For Chassis Thickness |
|---------------------------|-----------------------|
| SR-4050                   | .026-.062 (0.7-1.6)   |
| SR-4060                   | .062-.105 (1.5-2.7)   |
| SR-4070                   | .105-.145 (2.7-3.7)   |
| SR-4080                   | .145-.184 (3.7-4.7)   |
| SR-4090                   | .184-.223 (4.7-5.7)   |
| SR-4100                   | .223-.263 (5.7-6.7)   |
| SR-4120                   | .282-.341 (7.2-8.7)   |
| See Page Number 47        |                       |

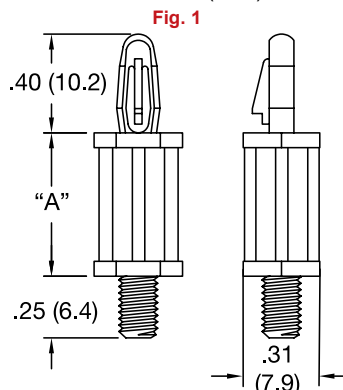
## SCBS/SCBSM/MSCBS Locking Circuit Board Support Threaded Male



### Features

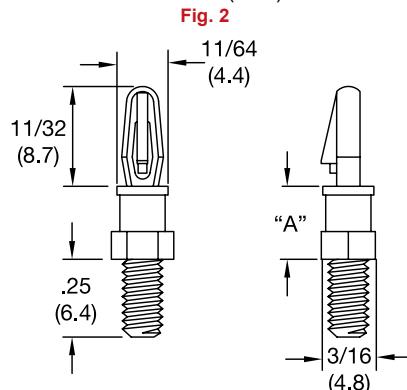
- See page 60 for mating nuts

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)



Bottom Hole: #8-32 or M4 Male Thread

Top Hole: Snap-lock: .125 (3.18)  
Panel Thickness: .062 (1.57)



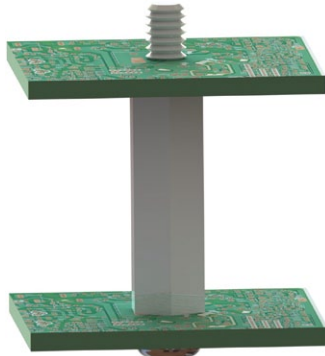
Bottom Hole: #6-32 Male Thread  
Special Order: M3 and M4 Thread

| Material: UL94 V-2 Nylon 6/6, RMS-01* Color: Natural                                 |                   |                   | Standard Pack:<br>1,000 per bag |
|--------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------|
| SCBS<br>(Fig. 1)                                                                     | MSCBS<br>(Fig. 1) | SCBSM<br>(Fig. 2) | "A" Standoff Height             |
| Thread: #8-32                                                                        | Thread: M4        | Thread: #6-32**   |                                 |
| -                                                                                    | -                 | SCBSM-632-2-01    | 1/8 (3.2)                       |
| -                                                                                    | -                 | SCBSM-632-3-01    | 3/16 (4.8)                      |
| SCBS-4-01                                                                            | MSCBS-4-01        | SCBSM-632-4-01    | 1/4 (6.4)                       |
| -                                                                                    | -                 | SCBSM-632-5-01    | 5/16 (7.9)                      |
| SCBS-6-01                                                                            | MSCBS-6-01        | SCBSM-632-6-01    | 3/8 (9.5)                       |
| -                                                                                    | -                 | SCBSM-632-7-01    | 7/16 (11.1)                     |
| SCBS-8-01                                                                            | MSCBS-8-01        | SCBSM-632-8-01    | 1/2 (12.7)                      |
| -                                                                                    | -                 | SCBSM-632-9-01    | 9/16 (14.3)                     |
| SCBS-10-01                                                                           | MSCBS-10-01       | SCBSM-632-10-01   | 5/8 (15.9)                      |
| SCBS-12-01                                                                           | MSCBS-12-01       | -                 | 3/4 (19.1)                      |
| SCBS-14-01                                                                           | MSCBS-14-01       | -                 | 7/8 (22.2)                      |
| SCBS-16-01                                                                           | MSCBS-16-01       | -                 | 1 (25.4)                        |
| SCBS-18-01                                                                           | MSCBS-18-01       | -                 | 1-1/8 (28.6)                    |
| SCBS-22.5-01                                                                         | MSCBS-22.5-01     | -                 | 1-13/32 (35.7)                  |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19. |                   |                   |                                 |
| **MSCBSM Series for M3 and M4 Threads available by special order.                    |                   |                   |                                 |

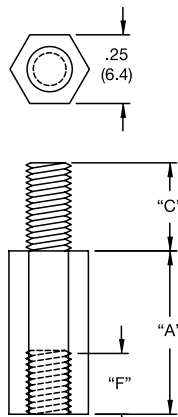
A

## MFTS

### Male-Female Threaded Standoff



Top Hole: #4-40 or #6-32 Male Thread



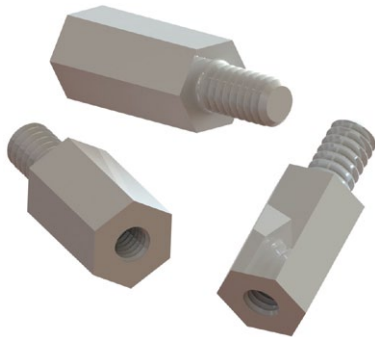
Bottom Hole: #4-40 or #6-32 Female Thread

| Standard Pack: 1,000 per bag                                                         |              |                        |
|--------------------------------------------------------------------------------------|--------------|------------------------|
| Material: UL94 V-2 Nylon 6/6,<br>RMS-48*<br>Color: Natural                           |              | "A"<br>Standoff Height |
| #4-40 Thread                                                                         | #6-32 Thread |                        |
| MFTS4-4-48                                                                           | MFTS6-4-48   | 1/4 (6.4)              |
| MFTS4-5-48                                                                           | MFTS6-5-48   | 5/16 (7.9)             |
| Not Available                                                                        | MFTS6-6-48   | 3/8 (9.5)              |
|                                                                                      | MFTS6-7-48   | 7/16 (11.1)            |
|                                                                                      | MFTS6-8-48   | 1/2 (12.7)             |
|                                                                                      | MFTS6-11-48  | 11/16 (17.5)           |
|                                                                                      | MFTS6-16-48  | 1 (25.4)               |
|                                                                                      | MFTS6-20-48  | 1-1/4 (31.7)           |
| *Available in UL94 V-0 material by special order.<br>To order, replace -48 with -V0. |              |                        |

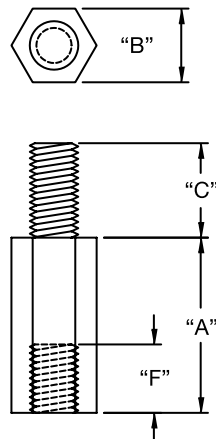
| Thread Size | "C"        | "F" Min.   |
|-------------|------------|------------|
| #4-40       | 3/16 (4.8) | 3/16 (4.8) |
| #6-32       |            | 1/4 (6.4)  |
| MFTS6-4-48  | 1/4 (6.4)  | .15 (3.8)  |
| MFTS6-5-48  |            | .22 (5.6)  |

## NTS

### Male-Female Metric Threaded Standoff



Top Hole: M3 or M4 Male Thread

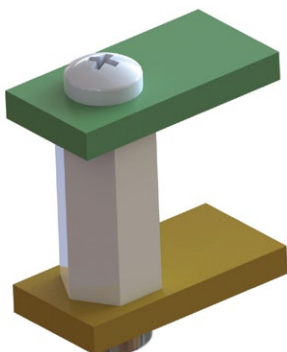


Bottom Hole: M3 or M4 Female Thread

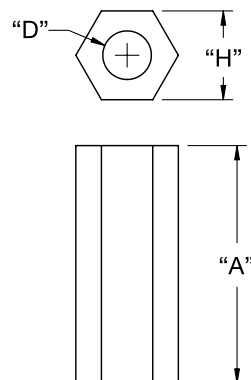
| Material: UL94 V-2 Nylon 6/6,<br>RMS-74*<br>Color: Natural                                            |                                 |           |           |        |           |                  |   |    |     |       |     |
|-------------------------------------------------------------------------------------------------------|---------------------------------|-----------|-----------|--------|-----------|------------------|---|----|-----|-------|-----|
| Part No.                                                                                              | “A”<br>Standoff<br>Height<br>mm | “B”<br>mm | “C”<br>mm | Thread | “F”<br>mm | Standard<br>Pack |   |    |     |       |     |
| NTS-7                                                                                                 | 7                               | 6         | 6.3       | M3     | 6         | 1,000            |   |    |     |       |     |
| NTS-8                                                                                                 | 8                               |           | 6         |        |           |                  |   |    |     |       |     |
| NTS-10                                                                                                | 10                              |           |           |        | 6         |                  | 8 |    |     |       |     |
| NTS-11                                                                                                | 11                              |           |           |        | 6.1       |                  |   | 10 |     |       |     |
| NTS-12                                                                                                | 12.7                            |           |           |        | 6.4       |                  |   |    | 500 |       |     |
| NTS-16                                                                                                | 16                              |           |           |        | 6.1       |                  |   |    |     | 1,000 |     |
| NTS-17.5                                                                                              | 17.5                            |           |           |        | 6         |                  |   |    |     |       | 200 |
| NTS-20                                                                                                | 20                              |           |           |        | 6.1       |                  |   |    |     |       |     |
| NTS-25                                                                                                | 25                              | 6.5       |           |        |           |                  |   |    |     |       |     |
| NTS-15A                                                                                               | 15                              | 6         | M4        |        |           |                  |   |    |     |       |     |
| NTS-19                                                                                                | 19.1                            | 8         |           | 5.5    | 8         |                  |   |    |     |       |     |
| NTS-37                                                                                                | 37.1                            |           |           |        |           |                  |   |    |     |       |     |
| *Available in UL94 V0 material by special order.<br>To order, add -146 to the end of the part number. |                                 |           |           |        |           |                  |   |    |     |       |     |

## HS

### Hex Self Tapping Spacer

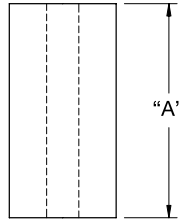
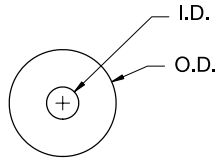
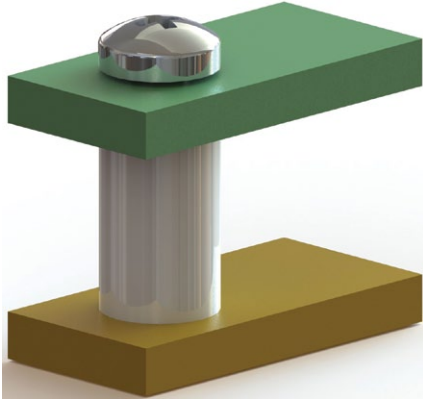


Hole: For #4, #6 or #8 Self Tapping Screw



| Material: UL94 V-0 CPVC, RMS-11<br>Color: Light Grey |                                      |                                      |                           |                  |
|------------------------------------------------------|--------------------------------------|--------------------------------------|---------------------------|------------------|
| For #4 Self<br>Tapping Screw                         | For #6 Self<br>Tapping Screw         | For #8 Self<br>Tapping Screw         | “A”<br>Standoff<br>Height | Standard<br>Pack |
| “D” = .102 (2.6)<br>“H” = .187 (4.8)                 | “D” = .110 (2.8)<br>“H” = .250 (6.4) | “D” = .141 (3.6)<br>“H” = .375 (9.5) |                           |                  |
| HS-4-3                                               | -                                    | -                                    | 3/8 (9.5)                 | 1,000            |
| HS-4-4                                               | HS-6-4                               | -                                    | 1/2 (12.7)                |                  |
| -                                                    | HS-6-5                               | -                                    | 5/8 (15.9)                |                  |
| HS-4-6                                               | HS-6-6                               | -                                    | 3/4 (19.1)                |                  |
| HS-4-7                                               | HS-6-7                               | -                                    | 7/8 (22.2)                |                  |
| HS-4-8                                               | HS-6-8                               | HS-8-8                               | 1 (25.4)                  |                  |
| -                                                    | HS-6-10                              | -                                    | 1-1/4 (31.8)              | 500              |
| -                                                    | HS-6-12                              | -                                    | 1-1/2 (38.1)              |                  |
| -                                                    | HS-6-14                              | HS-8-14                              | 1-3/4 (44.5)              |                  |
| -                                                    | -                                    | HS-8-16                              | 2 (50.8)                  |                  |
| -                                                    | -                                    | HS-8-24                              | 3 (76.2)                  |                  |
| Other lengths available by special order.            |                                      |                                      |                           |                  |

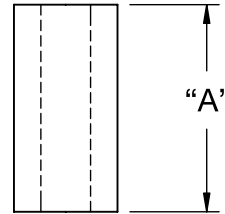
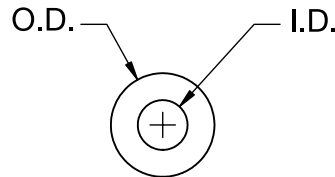
## R900 Round Nylon Spacer



| Standard Pack: 1,000 per bag                                      |            |            |
|-------------------------------------------------------------------|------------|------------|
| Material: UL94 V-2<br>Modified Nylon 6,<br>RMS-60<br>Color: White | I.D.       | O.D.       |
| R901-X                                                            | .028 (0.7) | .085 (2.2) |
| R938-X                                                            | .032 (0.8) |            |
| R902-X                                                            |            | .125 (3.2) |
| R939-X                                                            | .047 (1.2) |            |
| R937-X                                                            | .090 (2.3) |            |
| R906-X                                                            | .085 (2.2) | .148 (3.6) |
| R903-X                                                            | .047 (1.2) | .156 (4)   |
| R907-X                                                            | .105 (2.7) | .167 (4.2) |
| R904-X                                                            | .063 (1.6) | .187 (4.8) |
| R913-X                                                            | .091 (2.3) |            |
| R908-X                                                            | .125 (3.2) |            |
| R910-X                                                            | .091 (2.3) | .250 (6.4) |
| R911-X                                                            | .125 (3.2) |            |
| R905-X                                                            | .147 (3.7) |            |
| R912-X                                                            | .171 (4.3) |            |

| "X"                                             | "A"<br>Spacer Height |
|-------------------------------------------------|----------------------|
| 1                                               | 1/16 (1.6)           |
| 2                                               | 1/8 (3.2)            |
| 3                                               | 3/16 (4.8)           |
| 4                                               | 1/4 (6.4)            |
| 5                                               | 5/16 (7.9)           |
| 6                                               | 3/8 (9.5)            |
| 7                                               | 7/16 (11.1)          |
| 8                                               | 1/2 (12.7)           |
| Available by special order, 5000 piece minimum. |                      |

## SS Round CPVC Spacer



| Material: UL94 V-0 CPVC, RMS-11 Color: Light Grey |                                    |                                     |                                      |                                      |                                      |                                       |                                       |                  |
|---------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|------------------|
| “A”<br>Spacer<br>Height                           | For #4 or<br>M2.5 Screw            | For #6 or<br>M3 Screw               | For #8 or<br>M4 Screw                | For #8 or<br>M4 Screw                | For #10 or<br>M5 Screw               | For #1/4 or<br>M6 Screw               | For #3/8 or<br>M9 Screw               | Standard<br>Pack |
|                                                   | I.D.= .120 (3)<br>O.D. = 1/4 (6.4) | I.D.=.147 (3.7)<br>O.D. = 1/4 (6.4) | I.D.= .175 (4.4)<br>O.D. = 1/4 (6.4) | I.D.= .175 (4.4)<br>O.D. = 3/8 (9.5) | I.D.= .200 (5.1)<br>O.D. = 3/8 (9.5) | I.D.= .266 (6.8)<br>O.D. = 1/2 (12.7) | I.D.=.397 (10.1)<br>O.D. = 1/2 (12.7) |                  |
| 1/4 (6.4)                                         | SS4-2                              | SS6-2                               | SS8-2                                | SS8-2L                               | SS10-2                               | SS1/4-2                               | SS3/8-2                               | 1,000            |
| 3/8 (9.5)                                         | SS4-3                              | SS6-3                               | SS8-3                                | SS8-3L                               | SS10-3                               | -                                     | -                                     |                  |
| 1/2 (12.7)                                        | SS4-4                              | SS6-4                               | SS8-4                                | SS8-4L                               | SS10-4                               | SS1/4-4                               | SS3/8-4                               |                  |
| 5/8 (15.9)                                        | SS4-5                              | SS6-5                               | SS8-5                                | SS8-5L                               | SS10-5                               | -                                     | -                                     |                  |
| 3/4 (19.1)                                        | SS4-6                              | SS6-6                               | SS8-6                                | SS8-6L                               | SS10-6                               | SS1/4-6                               | SS3/8-6                               |                  |
| 1 (25.4)                                          | SS4-8                              | SS6-8                               | SS8-8                                | SS8-8L                               | SS10-8                               | SS1/4-8                               | SS3/8-8                               | 500              |
| 1-1/4 (31.8)                                      | SS4-10                             | SS6-10                              | SS8-10                               | SS8-10L                              | SS10-10                              | SS1/4-10                              | -                                     |                  |
| 1-1/2 (38.1)                                      | SS4-12                             | SS6-12                              | SS8-12                               | SS8-12L                              | SS10-12                              | SS1/4-12                              | -                                     |                  |
| Custom Lengths available by special order.        |                                    |                                     |                                      |                                      |                                      |                                       |                                       |                  |



A

## HTSN-1

Metric Hex Female/Female  
Threaded Standoff

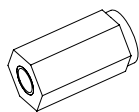


Fig. 1

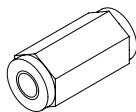
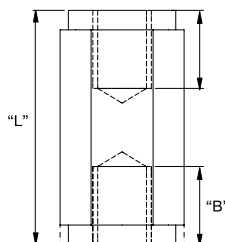
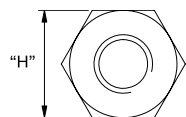


Fig. 2

Top Hole: Metric Threaded Female



Bottom Hole: Metric Threaded Female

| Standard Pack: 500 per bag                                |        |        |                                       |         |      |
|-----------------------------------------------------------|--------|--------|---------------------------------------|---------|------|
| Material: Nylon 6 25% Glass Filled, RMS-173* Color: Black | Thread | "H" mm | "L" Standoff Height (1 mm increments) | "B" mm  | Fig. |
| HTSN-M2-L-5-1                                             | M2     | 5      | 5 - 10                                | Through | 2    |
| HTSN-M2.5-L-5-1                                           | M2.5   |        | 11 - 45                               | 10 Max. |      |
| HTSN-M3-L-5.5-1                                           | M3     | 5.5    | 4 - 10                                | Through | 1    |
| HTSN-M3-L-6-1                                             |        |        | 11 - 55                               | 10 Max. |      |
| HTSN-M3-L-7-1                                             |        | 6      | 5 - 10                                | Through |      |
| HTSN-M3-L-8-1                                             |        |        | 11 - 55                               | 10 Max. |      |
| HTSN-M4-L-8-1                                             | M4     | 7      | 5 - 15                                | Through | 2    |
| HTSN-M4-L-10-1                                            |        |        | 16 - 65                               | 10 Max. |      |
| HTSN-M5-L-10-1                                            | M5     | 8      | 5 - 15                                | Through | 1    |
| HTSN-M6-L-10-1                                            |        |        | 16 - 65                               | 10 Max. |      |
| HTSN-M2.5-L-5-2                                           | M2.5   | 5      | 5 - 20                                | Through | 2    |
| HTSN-M3-L-5.5-2                                           | M3     |        | 21 - 68                               | 10 Max. |      |
| HTSN-M3-L-6-2                                             | M3     | 6      | 10 - 20                               | Through | 1    |
| HTSN-M3-L-8-2                                             |        |        | 21 - 60                               | 10 Max. |      |
| HTSN-M4-L-8-2                                             | M4     | 8      | 5 - 20                                | Through | 2    |
| HTSN-M5-L-10-2                                            | M5     |        | 21 - 65                               | 10 Max. |      |
| HTSN-M6-L-10-2                                            | M6     | 10     | 10 - 20                               | Through | 2    |
|                                                           |        |        | 21 - 65                               | 10 Max. |      |

Replace 'L' in the part number with your required standoff length.

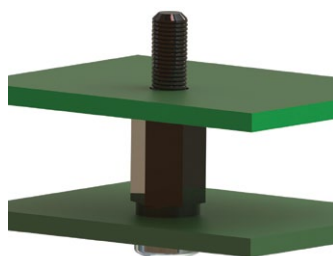
Available by special order only, 5,000 piece minimum.

\*Available in UL94 V-0 material by special order.

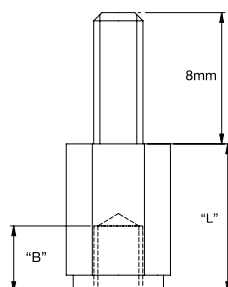
To order, add -V0 to the end of the part number. Color: Brown

## HTSN-2

Metric Hex Male/Female  
Threaded Standoff



Top Hole: Metric Threaded Male



Bottom Hole: Metric Threaded Female

| Material: UL94 HB Nylon 6/6, RMS-172 Color: Black |        |        |                                      |
|---------------------------------------------------|--------|--------|--------------------------------------|
| Standard Pack: 500 per bag                        |        |        |                                      |
| Part No.                                          | Thread | "H" mm | "L" Standoff Height (1mm increments) |
| HTSN-M2.5-L-5-2                                   | M2.5   | 5      | 5 - 45                               |
| HTSN-M3-L-5.5-2                                   | M3     | 5.5    | 5 - 61                               |
| HTSN-M3-L-6-2                                     |        | 6      |                                      |
| HTSN-M3-L-8-2                                     | M4     | 8      | 5 - 65                               |
| HTSN-M4-L-8-2                                     |        | 10     |                                      |
| HTSN-M5-L-10-2                                    | M5     | 10     | 5 - 60                               |

Replace 'L' in the part number with your required standoff length.

Available by special order, 5,000 piece minimum.

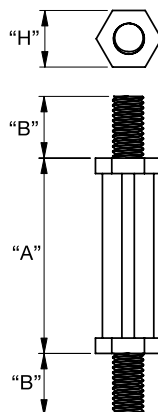
| "L"         | "B" Min. mm |
|-------------|-------------|
| 5           | 3           |
| 6           | 3.5         |
| 7           | 4           |
| 8           | 5           |
| 9           | 6           |
| 10          | 8           |
| 11 - 14     | 9           |
| 15+         | 10          |
| Max. Length | 11          |

## HTSN-3

Metric Hex Male/Male  
Threaded Standoff



Top Hole: Metric Threaded Male



Bottom Hole: Metric Threaded Male

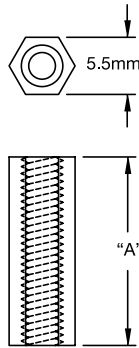
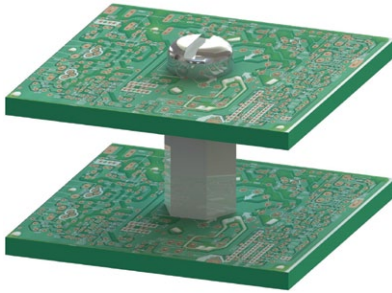
| Material: UL94 HB Nylon 6/6, RMS-172 Color: Black |                                      |                                        |                        |
|---------------------------------------------------|--------------------------------------|----------------------------------------|------------------------|
| Standard Pack: 500 per bag                        |                                      |                                        |                        |
| Thread: M2.5<br>"B" = 6mm<br>"H" = 5mm            | Thread: M3<br>"B" = 6mm<br>"H" = 6mm | Thread: M4<br>"B" = 6.4mm<br>"H" = 6mm | "A" Standoff Height mm |
| HTSN-M2.5-3-3                                     | HTSN-M3-3-3                          | HTSN-M4-3-3                            | 3                      |
| HTSN-M2.5-5-3                                     | HTSN-M3-5-3                          | HTSN-M4-5-3                            | 5                      |
| HTSN-M2.5-6-3                                     | HTSN-M3-6-3                          | HTSN-M4-6-3                            | 6                      |
| HTSN-M2.5-8-3                                     | HTSN-M3-8-3                          | HTSN-M4-8-3                            | 8                      |
| HTSN-M2.5-10-3                                    | HTSN-M3-10-3                         | HTSN-M4-10-3                           | 10                     |
| HTSN-M2.5-12-3                                    | HTSN-M3-12-3                         | HTSN-M4-12-3                           | 12                     |
| HTSN-M2.5-15-3                                    | HTSN-M3-15-3                         | HTSN-M4-15-3                           | 15                     |
| HTSN-M2.5-20-3                                    | HTSN-M3-20-3                         | HTSN-M4-20-3                           | 20                     |

Available by special order, 5,000 piece minimum.

## MTS

### Metric Hex Threaded Standoff

Through Hole: M3 Thread



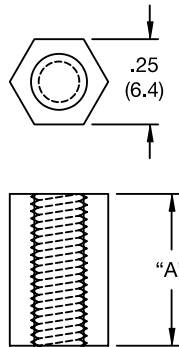
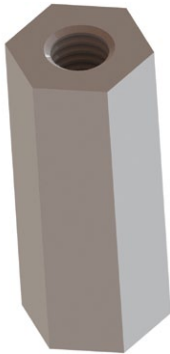
| Standard Pack: 1,000 per bag                            |                        |
|---------------------------------------------------------|------------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-74*<br>Color: Natural | "A" Standoff Height mm |
| MTS-6                                                   | 6.35                   |
| MTS-8                                                   | 8                      |
| MTS-10S                                                 | 10                     |
| MTS-10                                                  | 10.5                   |
| MTS-11                                                  | 11                     |
| MTS-12                                                  | 12                     |
| MTS-13                                                  | 12.8                   |
| MTS-14                                                  | 14                     |
| MTS-16                                                  | 16                     |
| MTS-18                                                  | 18.2                   |
| MTS-20                                                  | 20.1                   |
| MTS-30                                                  | 30                     |

\*Available in UL94 V-0 material by special order.  
To order, add -146 at the end of the part number.

## HTS

### Hex Threaded Standoff

Through Hole: #4-40, #6-32 or #8-32 Thread



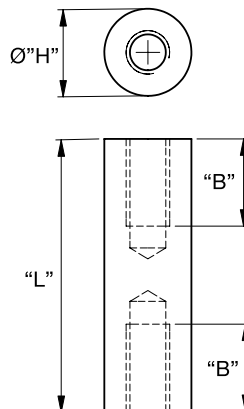
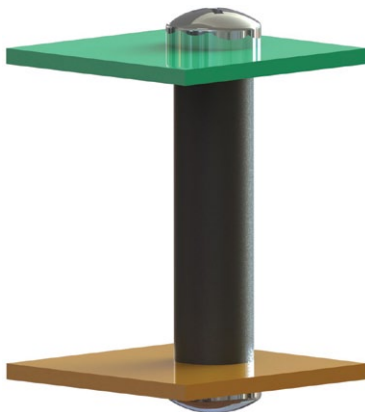
| Standard Pack: 1,000 per bag                            |               |               |                     |
|---------------------------------------------------------|---------------|---------------|---------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-48*<br>Color: Natural |               |               | "A" Standoff Height |
| #4-40 Thread                                            | #6-32 Thread  | #8-32 Thread  |                     |
| HTS4-4-48                                               | HTS6-4-48     | Not Available | 1/4 (6.4)           |
| HTS4-5-48                                               | Not Available |               | 5/16 (7.9)          |
| HTS4-6-48                                               | HTS6-6-48     |               | 3/8 (9.5)           |
| HTS4-7-48                                               | HTS6-7-48     |               | 7/16 (11.1)         |
| HTS4-8-48                                               | HTS6-8-48     |               | 1/2 (12.7)          |
| Not Available                                           | HTS6-9-48     | HTS8-10-48    | 9/16 (14.3)         |
| HTS4-10-48                                              | HTS6-10-48    |               | 5/8 (15.9)          |
| Not Available                                           | HTS6-16-48    | Not Available | 1 (25.4)            |

\*Available in UL94 V-0 material by special order.  
To order, replace -48 with -V0.

## RTSN

### Metric Round Threaded Standoff

Top Hole: Metric Threaded Female



Bottom Hole: Metric Threaded Female

| Standard Pack: 500 per bag                                   |        |        |                                       |         |
|--------------------------------------------------------------|--------|--------|---------------------------------------|---------|
| Material: Nylon 6 25% Glass Filled, RMS-173*<br>Color: Black | Thread | "H" mm | "L" Standoff Height (1 mm increments) | "B" mm  |
| RTSN-M2-L-5-1                                                | M2     | 5      | 5 - 14                                | Through |
| RTSN-M2.5-L-5-1                                              | M2.5   |        | 15 - 45                               | 10 Min. |
|                                                              |        |        | 4 - 20                                | Through |
|                                                              |        |        | 21 - 55                               | 10 Min. |
| RTSN-M3-L-6-1                                                | M3     | 6      | 5 - 15                                | Through |
|                                                              |        |        | 16 - 60                               | 10 Min. |
| RTSN-M3-L-7-1                                                | M3     | 7      | 5 - 15                                | Through |
|                                                              |        |        | 16 - 60                               | 10 Min. |
| RTSN-M4-L-7-1                                                | M4     | 8      | 5 - 15                                | Through |
|                                                              |        |        | 16 - 60                               | 10 Min. |
| RTSN-M4-L-8-1                                                | M4     |        | 5 - 20                                | Through |
|                                                              |        |        | 21 - 65                               | 10 Min. |

Replace 'L' in the part number with your required standoff length.

Available by special order; 5,000 piece minimum.

\*Available in UL94 V-0 material by special order.  
To order, add -V0 to the end of the part number. Color: Brown

A

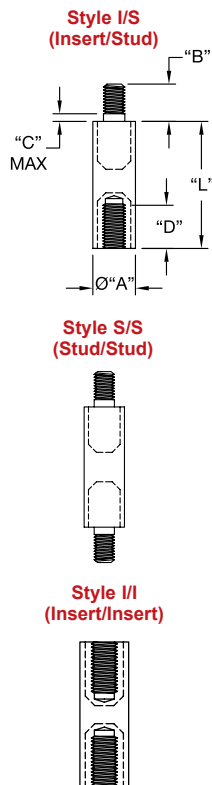
## TNSP

### Low Voltage Insulators



#### Features

- Voltage Breakdown > 45,000 volts (>360 Volts/Mil) per ASTM-D-149-97A



| Standard Pack: 100 per bag                                                                  |        |                     |            |                 |            |                  |
|---------------------------------------------------------------------------------------------|--------|---------------------|------------|-----------------|------------|------------------|
| Material: Spacer - UL94 V-2 Nylon 6/6, RMS-01<br>Color: Natural<br>Inserts - Brass, RMS-231 | Thread | "L" Standoff Height | "A"        | "B" Stud Length | "C"        | "D" Insert Depth |
| TNSP4-12-632-STYLE                                                                          | #6-32  | 3/4 (19.1)          | 1/4 (6.4)  | 1/4 (6.4)       | 1/16 (1.6) | 11/64 (4.4)      |
| TNSP4-16-632-STYLE                                                                          |        | 1 (25.4)            |            |                 |            |                  |
| TNSP4-20-632-STYLE                                                                          |        | 1-1/4 (31.8)        |            |                 |            |                  |
| TNSP4-24-632-STYLE                                                                          |        | 1-1/2 (38.1)        |            |                 |            |                  |
| TNSP4-28-632-STYLE                                                                          |        | 1-3/4 (44.5)        |            |                 |            |                  |
| TNSP4-32-632-STYLE                                                                          | #8-32  | 2 (50.8)            | 3/8 (9.5)  | 1/4 (6.4)       | 1/16 (1.6) | 3/16 (4.8)       |
| TNSP6-16-832-STYLE                                                                          |        | 1 (25.4)            |            |                 |            |                  |
| TNSP6-20-832-STYLE                                                                          |        | 1-1/4 (31.8)        |            |                 |            |                  |
| TNSP6-24-832-STYLE                                                                          |        | 1-1/2 (38.1)        |            |                 |            |                  |
| TNSP6-28-832-STYLE                                                                          |        | 1-3/4 (44.5)        |            |                 |            |                  |
| TNSP6-32-832-STYLE                                                                          | #10-24 | 2 (50.8)            | 1/2 (12.7) | 9/32 (7.1)      | 3/32 (2.4) | 3/16 (4.8)       |
| TNSP6-36-832-STYLE                                                                          |        | 2-1/4 (57.2)        |            |                 |            |                  |
| TNSP6-40-832-STYLE                                                                          |        | 2-1/2 (63.5)        |            |                 |            |                  |
| TNSP8-14-1024-STYLE                                                                         |        | 7/8 (22.3)          |            |                 |            |                  |
| TNSP8-20-1024-STYLE                                                                         |        | 1-1/4 (31.8)        |            |                 |            |                  |
| TNSP8-24-1024-STYLE                                                                         | 1/4-20 | 1-1/2 (38.1)        | 5/8 (15.9) | 7/16 (11.1)     | 1/8 (3.2)  | 21/64 (8.3)      |
| TNSP8-28-1024-STYLE                                                                         |        | 1-3/4 (44.5)        |            |                 |            |                  |
| TNSP8-32-1024-STYLE                                                                         |        | 2 (50.8)            |            |                 |            |                  |
| TNSP8-36-1024-STYLE                                                                         |        | 2-1/4 (57.2)        |            |                 |            |                  |
| TNSP8-40-1024-STYLE                                                                         |        | 2-1/2 (63.5)        |            |                 |            |                  |
| TNSP10-20-1/420-STYLE                                                                       | 1/4-20 | 1-1/4 (31.8)        | 5/8 (15.9) | 7/16 (11.1)     | 1/8 (3.2)  | 21/64 (8.3)      |
| TNSP10-24-1/420-STYLE                                                                       |        | 1-1/2 (38.1)        |            |                 |            |                  |
| TNSP10-28-1/420-STYLE                                                                       |        | 1-3/4 (44.5)        |            |                 |            |                  |
| TNSP10-32-1/420-STYLE                                                                       |        | 2 (50.8)            |            |                 |            |                  |
| TNSP10-36-1/420-STYLE                                                                       |        | 2-1/4 (57.2)        |            |                 |            |                  |
| TNSP10-40-1/420-STYLE                                                                       |        | 2-1/2 (63.5)        |            |                 |            |                  |

Replace 'STYLE' in the part number with your required configuration.  
'I/S' = Female/Male, 'S/S' = Male/Male, 'I/I' = Female/Female

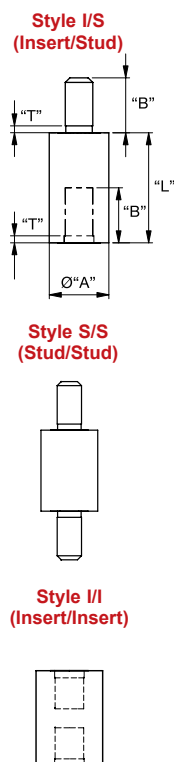
## TNSP-M

### Metric Low Voltage Insulators



#### Features

- Voltage Breakdown > 45,000 volts (>360 Volts/Mil) per ASTM-D-149-97A



| Standard Pack: 100 per bag                                                                                                            |        |                                            |           |           |           |
|---------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------|-----------|-----------|-----------|
| Material: Spacer - UL94 HB<br>Nylon 6/6, RMS-133<br>Color: Natural<br>Inserts: Brass, RMS-231                                         | Thread | “L” Standoff<br>Height<br>(1mm increments) | “A”<br>mm | “B”<br>mm | “T”<br>mm |
| TNSP-M2-6.5-L-STYLE                                                                                                                   | M2     | 10 - 105                                   | 6.5       | 6         | 0.6       |
| TNSP-M2-8-L-STYLE                                                                                                                     |        |                                            | 8         |           |           |
| TNSP-M2.5-6.5-L-STYLE                                                                                                                 | M2.5   |                                            | 6.5       |           | 0.68      |
| TNSP-M2.5-8-L-STYLE                                                                                                                   |        |                                            | 8         |           |           |
| TNSP-M3-6.5-L-STYLE                                                                                                                   | M3     |                                            | 6.5       | 0.75      |           |
| TNSP-M3-8-L-STYLE                                                                                                                     |        |                                            | 8         |           |           |
| TNSP-M4-8-L-STYLE                                                                                                                     | M4     | 12.7, 13 - 105                             | 9.5       | 10        | 1.05      |
| TNSP-M4-9.5-L-STYLE                                                                                                                   |        |                                            |           |           |           |
| TNSP-M5-9.5-L-STYLE                                                                                                                   | M5     | 19 - 105                                   |           |           | 1.2       |
| TNSP-M6-12.7-L-STYLE                                                                                                                  | M6     | 22 - 105                                   | 13        | 13        | 1.5       |
| TNSP-M8-15.9-L-STYLE                                                                                                                  | M8     | 30 - 105                                   | 16        | 14        | 1.88      |
| TNSP-M8-19-L-STYLE                                                                                                                    |        |                                            | 19        |           |           |
| TNSP-M10-25-L-STYLE                                                                                                                   | M10    | 38 - 105                                   | 25        | 20        | 2.25      |
| TNSP-M12-30-L-STYLE                                                                                                                   | M12    | 45 - 105                                   | 30        | 25        | 2.62      |
| Available by special order only, 1,000 piece minimum.                                                                                 |        |                                            |           |           |           |
| Replace 'L' in the part number with your required standoff length.                                                                    |        |                                            |           |           |           |
| Replace 'STYLE' in the part number with your required configuration.<br>'I/S' = Female/Male, 'S/S' = Male/Male, 'I/I' = Female/Female |        |                                            |           |           |           |

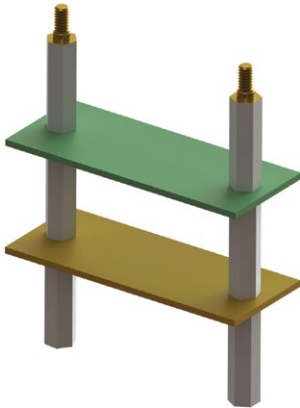
Available by special order only, 1,000 piece minimum.

Replace 'L' in the part number with your required standoff length.

Replace 'STYLE' in the part number with your required configuration.  
'I/S' = Female/Male, 'S/S' = Male/Male, 'I/I' = Female/Female

## HTNSP

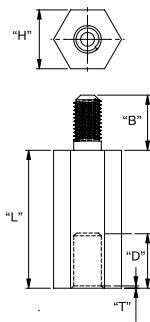
### Metric Hex Low Voltage Insulators



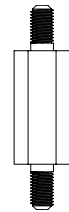
#### Features

- Voltage Breakdown > 45,000 volts (>360 Volts/Mil) per ASTM-D-149-97A

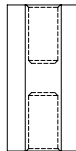
Style I/S  
(Insert/Stud)



Style S/S  
(Stud/Stud)



Style I/I  
(Insert/Insert)



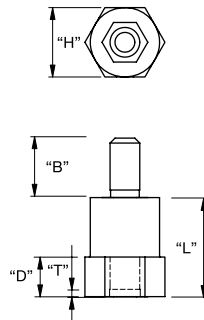
| Standard Pack: 100 per bag                                                                                                            |               |                                                 |               |                                   |                                    |               |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------|---------------|-----------------------------------|------------------------------------|---------------|
| <b>Material: UL94 HB<br/>Nylon 6, RMS-133<br/>Color: Natural.<br/>Inserts: Brass, RMS-231</b>                                         | <b>Thread</b> | <b>"L" Standoff Height<br/>(1mm increments)</b> | <b>"H" mm</b> | <b>"B" Stud<br/>Length<br/>mm</b> | <b>"D" Insert<br/>Depth<br/>mm</b> | <b>"T" mm</b> |
| HTNSP-M2-6.4-L-STYLE                                                                                                                  | M2            | 15 - 50                                         | 6.4           | 6                                 | 6                                  | 0.6           |
| HTNSP-M2.5-6.4-L-STYLE                                                                                                                | M2.5          |                                                 |               |                                   |                                    | 0.68          |
| HTNSP-M3-6.4-L-STYLE                                                                                                                  | M3            |                                                 |               |                                   |                                    | 0.75          |
| HTNSP-M4-8.0-L-STYLE                                                                                                                  | M4            | 15 - 50                                         | 8             | 10                                | 10                                 | 1.05          |
| HTNSP-M5-9.5-L-STYLE                                                                                                                  | M5            | 20 - 75                                         | 9.5           |                                   |                                    | 1.2           |
| HTNSP-M6-12.7-L-STYLE                                                                                                                 | M6            | 25 - 75                                         | 12.7          |                                   |                                    | 12.7          |
| Available by special order; 1,000 piece minimum.                                                                                      |               |                                                 |               |                                   |                                    |               |
| Replace 'L' in the part number with your required standoff length.                                                                    |               |                                                 |               |                                   |                                    |               |
| Replace 'STYLE' in the part number with your required configuration.<br>'I/S' = Female/Male, 'S/S' = Male/Male, 'I/I' = Female/Female |               |                                                 |               |                                   |                                    |               |

## MTNSP

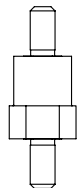
### Metric Micro Low Voltage Insulators



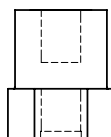
Part Suffix I/S  
(Insert/Stud)



Part Suffix S/S  
(Stud/Stud)



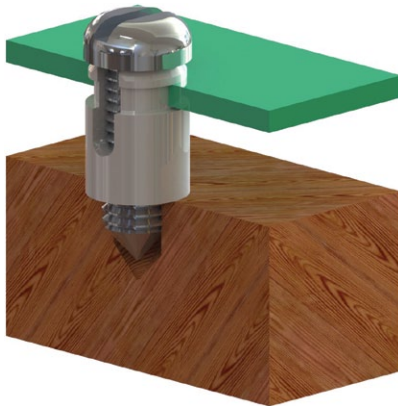
Part Suffix I/I  
(Insert/Insert)



| Standard Pack: 100 per bag                                                                                              |        |                                         |           |                             |                              |           |
|-------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------|-----------|-----------------------------|------------------------------|-----------|
| Material: Spacer: UL94 HB<br>Nylon 6, RMS-133*<br>Color: Natural<br>Inserts: Brass, RMS-231,<br>Nickel Plating, RMS-229 | Thread | “L” Standoff Height<br>(1mm increments) | “H”<br>mm | “B”<br>Stud<br>Length<br>mm | “D”<br>Insert<br>Depth<br>mm | “T”<br>mm |
| MTNSP-M2.5-6-L-S/S                                                                                                      | M2.5   | 4 - 12                                  | 6         | 6                           | -                            | -         |
| MTNSP-M2.5-6-L-I/S                                                                                                      |        | 7 - 12                                  |           | 4                           | 0.68                         |           |
| MTNSP-M2.5-6-L-I/I                                                                                                      |        | 9 - 12                                  |           |                             |                              |           |
| MTNSP-M3-7-L-S/S                                                                                                        | M3     | 4 - 12                                  | 7         | 6                           | -                            | -         |
| MTNSP-M3-7-L-I/S                                                                                                        |        | 7 - 12                                  |           | 4                           | 0.75                         |           |
| MTNSP-M3-7-L-I/I                                                                                                        |        | 9 - 12                                  |           |                             |                              |           |
| Available by special order; 1,000 piece minimum.                                                                        |        |                                         |           |                             |                              |           |
| Replace 'L' in the part number with your required standoff length.                                                      |        |                                         |           |                             |                              |           |
| *Available in UL94 V0 material by special order.                                                                        |        |                                         |           |                             |                              |           |

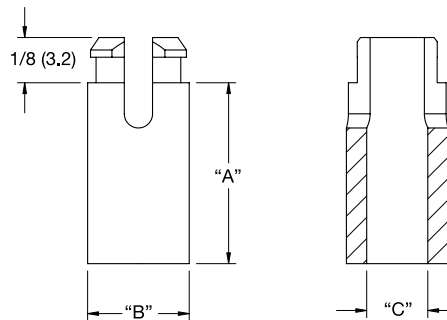
A

## SRS Self-Retaining Spacer



| Material: UL94 V-2 Nylon 6/6, RMS-01* Color: Natural                                        |                                                                                              |                                                                                              |                                                                                                        | Standard Pack: 1,000 per bag |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------|
| For #4 (M3) Screw                                                                           | For #6 (M3) Screw                                                                            | For #8 (M4) Screw                                                                            | For #8 (M4) Screw                                                                                      |                              |
| "B" = 1/4 (6.4)<br>"C" = .125 (3.2)<br>Ø Hole = .187 (4.7)<br>Panel Thickness = .062 (1.57) | "B" = 9/32 (7.1)<br>"C" = .153 (3.9)<br>Ø Hole = .234 (5.9)<br>Panel Thickness = .062 (1.57) | "B" = 9/32 (7.1)<br>"C" = .169 (4.3)<br>Ø Hole = .234 (5.9)<br>Panel Thickness = .062 (1.57) | <b>NEW</b> "B" = 9/32 (7.1)<br>"C" = .169 (4.3)<br>Ø Hole = .234 (5.9)<br>Panel Thickness = .087 (2.2) | "A" Spacer Height            |
| SRS4-2-01                                                                                   | -                                                                                            | -                                                                                            | -                                                                                                      | 1/8 (3.2)                    |
| SRS4-3-01                                                                                   | -                                                                                            | <b>NEW</b> SRS8-3-01                                                                         | SRS8-2-3-01                                                                                            | 3/16 (4.8)                   |
| SRS4-4-01                                                                                   | SRS6-4-01                                                                                    | SRS8-4-01                                                                                    | SRS8-2-4-01                                                                                            | 1/4 (6.4)                    |
| SRS4-5-01                                                                                   | SRS6-5-01                                                                                    | SRS8-5-01                                                                                    | SRS8-2-5-01                                                                                            | 5/16 (7.9)                   |
| SRS4-6-01                                                                                   | SRS6-6-01                                                                                    | SRS8-6-01                                                                                    | SRS8-2-6-01                                                                                            | 3/8 (9.5)                    |
| SRS4-7-01                                                                                   | SRS6-7-01                                                                                    | SRS8-7-01                                                                                    | SRS8-2-7-01                                                                                            | 7/16 (11.1)                  |
| SRS4-8-01                                                                                   | SRS6-8-01                                                                                    | SRS8-8-01                                                                                    | SRS8-2-8-01                                                                                            | 1/2 (12.7)                   |
| SRS4-10-01                                                                                  | SRS6-10-01                                                                                   | SRS8-10-01                                                                                   | SRS8-2-10-01                                                                                           | 5/8 (15.9)                   |
| SRS4-12-01                                                                                  | SRS6-12-01                                                                                   | SRS8-12-01                                                                                   | SRS8-2-12-01                                                                                           | 3/4 (19.1)                   |
| SRS4-14-01                                                                                  | SRS6-14-01                                                                                   | SRS8-14-01                                                                                   | SRS8-2-14-01                                                                                           | 7/8 (22.2)                   |
| SRS4-16-01                                                                                  | SRS6-16-01                                                                                   | SRS8-16-01                                                                                   | SRS8-2-16-01                                                                                           | 1 (25.4)                     |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19.



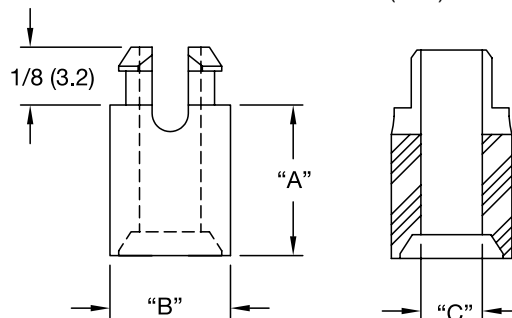
## SSRS Stackable Self-Retaining Spacer



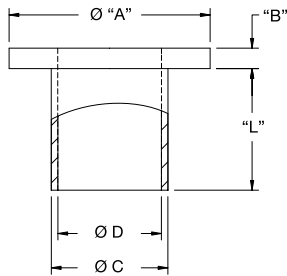
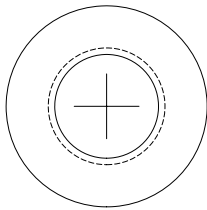
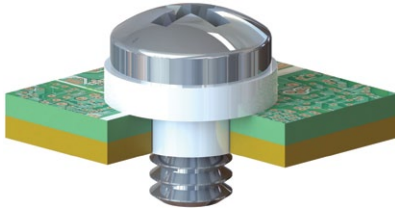
| Material: UL94 V-2 Nylon 6/6, RMS-01* Color: Natural        |                                                              |                                                              | Standard Pack: 1,000 per bag |
|-------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|------------------------------|
| For #4 (M3) Screw                                           | For #6 (M3) Screw                                            | For #8 (M4) Screw                                            |                              |
| "B" = .26 (6.6)<br>"C" = .130 (3.3)<br>Ø Hole = .187 (4.75) | "B" = 5/16 (7.9)<br>"C" = .153 (3.9)<br>Ø Hole = .234 (5.94) | "B" = 5/16 (7.9)<br>"C" = .169 (4.3)<br>Ø Hole = .234 (5.94) | "A" Spacer Height            |
| SSRS4-2-01                                                  | -                                                            | -                                                            | 1/8 (3.2)                    |
| SSRS4-3-01                                                  | -                                                            | -                                                            | 3/16 (4.8)                   |
| SSRS4-4-01                                                  | SSRS6-4-01                                                   | SSRS8-4-01                                                   | 1/4 (6.4)                    |
| SSRS4-5-01                                                  | SSRS6-5-01                                                   | SSRS8-5-01                                                   | 5/16 (7.9)                   |
| SSRS4-6-01                                                  | SSRS6-6-01                                                   | SSRS8-6-01                                                   | 3/8 (9.5)                    |
| SSRS4-7-01                                                  | SSRS6-7-01                                                   | SSRS8-7-01                                                   | 7/16 (11.1)                  |
| SSRS4-8-01                                                  | SSRS6-8-01                                                   | SSRS8-8-01                                                   | 1/2 (12.7)                   |
| SSRS4-10-01                                                 | SSRS6-10-01                                                  | SSRS8-10-01                                                  | 5/8 (15.9)                   |
| -                                                           | SSRS6-12-01                                                  | SSRS8-12-01                                                  | 3/4 (19.1)                   |
| -                                                           | SSRS6-14-01                                                  | SSRS8-14-01                                                  | 7/8 (22.2)                   |
| -                                                           | SSRS6-16-01                                                  | SSRS8-16-01                                                  | 1 (25.4)                     |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19.

Top Hole: Locking: See Table  
Panel Thickness: .062 (1.57)

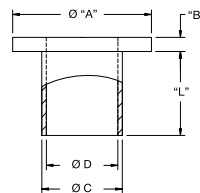
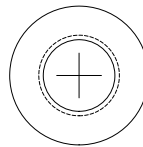


## MNI Screw Insulator



| Material: UL94 V-2 Nylon 6/6 Color: Natural |             |             |             |            | Standard Pack: 1,000 per bag |            |            |            |
|---------------------------------------------|-------------|-------------|-------------|------------|------------------------------|------------|------------|------------|
| Part No.                                    | Screw Size  | "L"         | "A"         | "B"        | "C"                          | "D"        | Material   |            |
| MNI#2-2                                     | #2 (M2)     | .031 (0.8)  | .181 (4.6)  | .047 (1.2) | .120 (3)                     | .090 (2.3) | RMS-01     |            |
| MNI#2-4                                     |             | .063 (1.6)  |             |            | .145 (3.7)                   | .115 (2.9) |            |            |
| MNI#4-2                                     | #4 (M2.5)   | .031 (0.8)  | .140 (3.6)  |            |                              |            |            |            |
| MNI#4-3                                     |             | .046 (1.2)  |             |            | .145 (3.7)                   |            |            |            |
| MNI#4-4                                     |             | .063 (1.6)  | .235 (6)    |            |                              |            |            |            |
| MNI#4-5                                     |             | .084 (2.1)  |             |            | .252 (6.4)                   |            |            |            |
| MNI#4-6                                     |             | .093 (2.4)  | .235 (6)    |            |                              |            |            |            |
| MNI#4-8                                     |             | .125 (3.2)  |             |            | .145 (3.7)                   |            |            |            |
| MNI#4-10                                    |             | .156 (4)    | .236 (6)    |            |                              |            |            |            |
| MNI#4-12                                    |             | .187 (4.7)  |             |            | .128 (3.3)                   |            |            |            |
| MNI#4-16                                    |             | .250 (6.4)  | RMS-48      |            |                              |            |            |            |
| MNI#4-24                                    |             | .375 (9.5)  |             |            | RMS-01                       |            |            |            |
| MNI#5-3                                     | #5 (M3)     | .051 (1.3)  | .370 (9.4)  |            |                              | .236 (6)   | .128 (3.3) | RMS-48     |
| MNI#6-2                                     | #6 (M3.5)   | .031 (0.8)  | .290 (7.4)  | .063 (1.6) | .170 (4.3)                   | .140 (3.6) | RMS-01     |            |
| MNI#6-4                                     |             | .063 (1.6)  |             |            |                              |            |            |            |
| MNI#6-6                                     |             | .093 (2.4)  |             |            |                              |            |            |            |
| MNI#6-8                                     |             | .125 (3.2)  |             |            |                              |            |            |            |
| MNI#6-12                                    |             | .187 (4.7)  |             |            |                              |            |            |            |
| MNI#6-16                                    |             | .250 (6.4)  |             |            |                              |            |            |            |
| MNI#6-24                                    |             | .375 (9.5)  |             |            |                              |            |            |            |
| MNI#6-32                                    |             | .500 (12.7) |             |            | RMS-48                       |            |            |            |
| MNI#8-2                                     |             | .031 (0.8)  |             |            |                              | .344 (8.7) | .205 (5.2) | .173 (4.4) |
| MNI#8-4                                     |             | .063 (1.6)  |             |            |                              |            |            |            |
| MNI#8-6                                     | .093 (2.4)  |             |             |            |                              |            |            |            |
| MNI#8-8                                     | .125 (3.2)  |             |             |            |                              |            |            |            |
| MNI#8-12                                    | .187 (4.7)  | RMS-48      |             |            |                              |            |            |            |
| MNI#8-16                                    | .250 (6.4)  |             |             |            |                              |            |            |            |
| MNI#8-24                                    | .375 (9.5)  |             |             |            |                              |            |            |            |
| MNI#8-32                                    | .500 (12.7) |             |             |            |                              |            |            |            |
| MNI#10-4                                    | #10 (M5)    | .063 (1.6)  | .399 (10.1) | .260 (6.6) | .200 (5.1)                   | RMS-01     |            |            |
| MNI#10-6                                    |             | .093 (2.4)  |             |            |                              |            |            |            |
| MNI#10-8                                    |             | .125 (3.2)  |             |            |                              |            |            |            |
| MNI#10-12                                   |             | .187 (4.7)  |             |            |                              |            |            |            |
| MNI#10-16                                   |             | .250 (6.4)  |             |            |                              |            |            |            |
| MNI#10-24                                   |             | .375 (9.5)  |             |            |                              |            |            |            |
| MNI#10-32                                   |             | .500 (12.7) |             | RMS-48     |                              |            |            |            |
| MNI1/4-6                                    |             | 1/4 (M6)    |             |            | .093 (2.4)                   | .513 (13)  | .065 (1.7) | .312 (7.9) |
| MNI1/4-12                                   | .187 (4.7)  |             |             |            |                              |            |            |            |
| MNI1/4-16                                   | .250 (6.4)  |             |             |            |                              |            |            |            |
| MNI1/4-24                                   | .375 (9.5)  |             |             |            |                              |            |            |            |
| MNI1/4-32                                   | .500 (12.7) |             |             |            |                              |            |            |            |
| MNI5/16-6                                   | 5/16 (M8)   | .093 (2.4)  | .620 (15.7) | .063 (1.6) | .360 (9.1)                   | .320 (8.1) |            |            |
| MNI5/16-12                                  |             | .187 (4.7)  |             |            |                              |            |            |            |
| MNI5/16-16                                  |             | .250 (6.4)  |             |            |                              |            |            |            |
| MNI-M2.5-1.3                                | M2.5        | .051 (1.3)  | .248 (6.3)  | .047 (1.2) | .138 (3.5)                   | .114 (2.9) | RMS-01     |            |
| MNI-M2.5-3.6                                |             | .142 (3.6)  | .280 (7.1)  | .059 (1.5) | .150 (3.8)                   | .110 (2.8) |            |            |
| MNIM3-1.0                                   | M3          | .039 (1)    | .280 (7.1)  | .039 (1)   | .150 (3.8)                   | .122 (3.1) | RMS-48     |            |
| MNIM3-1.3                                   |             | .051 (1.3)  | .347 (8.8)  | .047 (1.2) | .236 (6)                     | .126 (3.2) | RMS-01     |            |
| MNIM3-2.5                                   |             | .098 (2.5)  | .280 (7.1)  | .039 (1)   | .150 (3.8)                   | .122 (3.1) | RMS-48     |            |
| MNIM3-3.5                                   |             | .137 (3.5)  |             |            |                              |            | RMS-01     |            |

## MNI-HT High Temperature Screw Insulator

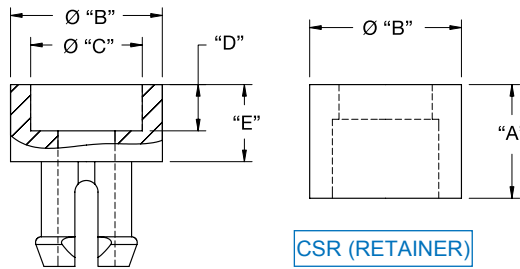
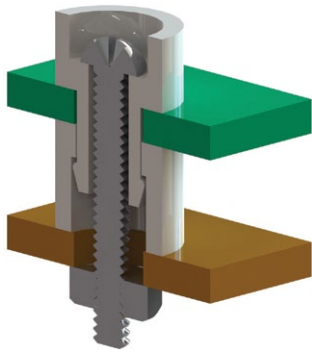


| Material: UL94 V-0 40% Glass Filled Polyphenylene Sulfide, RMS-50<br>Color: Black |            |            |             |            | Standard Pack: 1,000 per bag |            |
|-----------------------------------------------------------------------------------|------------|------------|-------------|------------|------------------------------|------------|
| Part No.                                                                          | Screw Size | "L"        | "A"         | "B"        | "C"                          | "D"        |
| MNI-HT#4-2                                                                        | #4 (M3)    | .031 (0.8) | .280 (7.1)  | .047 (1.2) | .145 (3.7)                   | .118 (3)   |
| MNI-HT#4-220*                                                                     |            | .032 (0.8) | .215 (5.5)  | .040 (1)   | .135 (3.4)                   | .116 (2.9) |
| MNI-HT#10-6                                                                       | #10 (M4.5) | .093 (2.4) | .399 (10.1) | .063 (1.6) | .260 (6.6)                   | .200 (5.1) |
| Serviceable to 428°F (220°C)                                                      |            |            |             |            |                              |            |
| *Design allows insertion in the tab of a TO-220 transistor.                       |            |            |             |            |                              |            |



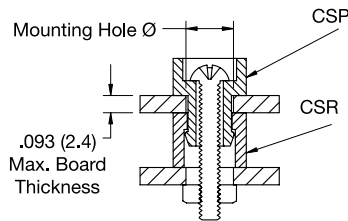
A

## CSP & CSR Collar Spacer



CSP (PIN)

CSR (RETAINER)



Typical Assembly

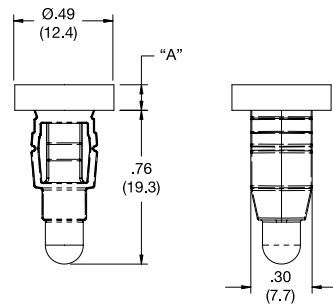
| CSR Retainer | Material: UL94 V-2 Nylon 6/6, RMS-01<br>Color: Natural |            |                      |
|--------------|--------------------------------------------------------|------------|----------------------|
|              | Standard Pack: 1,000 per bag                           |            |                      |
|              | "A"                                                    | "B"        | Mating Pin (CSP) No. |
| CSR4-224-01  | .224 (5.7)                                             | .295 (7.5) | CSP4-01              |
| CSR4-295-01  | .295 (7.5)                                             |            |                      |
| CSR4-394-01  | .394 (10)                                              |            |                      |
| CSR4-591-01  | .591 (15)                                              |            |                      |
| CSR4-787-01  | .787 (20)                                              |            |                      |
| CSR6-224-01  | .224 (5.7)                                             | .394 (10)  | CSP6-01              |
| CSR6-295-01  | .295 (7.5)                                             |            |                      |
| CSR6-394-01  | .394 (10)                                              |            |                      |
| CSR6-591-01  | .591 (15)                                              |            |                      |
| CSR6-787-01  | .787 (20)                                              |            |                      |
| CSR8-224-01  | .224 (5.7)                                             | .436 (11)  | CSP8-01              |
| CSR8-295-01  | .295 (7.5)                                             |            |                      |
| CSR8-394-01  | .394 (10)                                              |            |                      |
| CSR8-591-01  | .591 (15)                                              |            |                      |
| CSR8-787-01  | .787 (20)                                              |            |                      |

| CSP Pin | Material: UL94 V-2 Nylon 6/6, RMS-01 Color: Natural |           |           |           |                 |                                 |
|---------|-----------------------------------------------------|-----------|-----------|-----------|-----------------|---------------------------------|
|         | Standard Pack: 1,000 per bag                        |           |           |           |                 |                                 |
|         | "B"                                                 | "C"       | "D" Ref.  | "E" Ref.  | Mounting Hole Ø | Binding Head Type<br>Screw Size |
| CSP4-01 | .295 (7.5)                                          | -         | -         | .10 (2.5) | .195 (5)        | #4 (M2.5)                       |
| CSP6-01 | .394 (10)                                           | .29 (7.4) | .12 (3)   | .20 (5.1) | .256 (6.5)      | #6 (M3)                         |
| CSP8-01 | .436 (11.1)                                         | .33 (8.4) | .14 (3.6) | .22 (5.6) | .272 (6.9)      | #8 (M4)                         |

## TFR Toggle Fixer



**Top Hole:** For a Metal #8 (4.2) Self-Tapping Screw

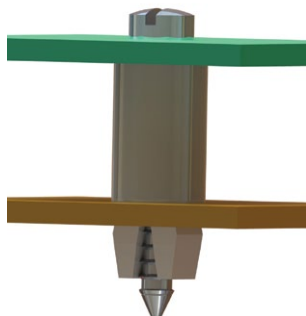


**Bottom Hole:** .315 (8) Square Hole  
**Panel Thickness:** See Table

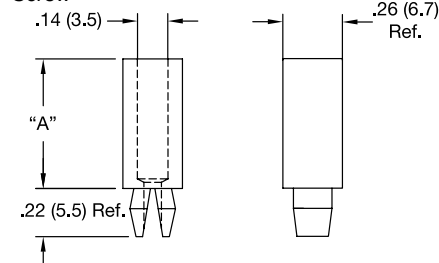
**NEW**

| Standard Pack: 1,000 per bag                              |            |                         |
|-----------------------------------------------------------|------------|-------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural | "A"        | Panel Thickness         |
| TFR-1                                                     | .031 (0.8) | .060 - .110 (1.5 - 2.8) |
| TFR-2                                                     | .125 (3.2) | .020 - .110 (0.5 - 2.8) |
| TFR-3                                                     | .189 (4.8) |                         |

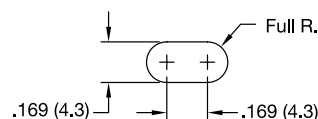
## MSNE Spacer Nut



**Top Hole:** For a Metal #4 (2.9) Self-Tapping Screw



**Optional Mounting Hole**

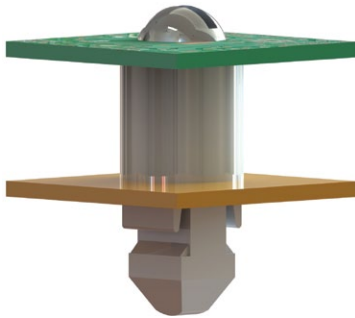


**Bottom Hole:** .169 (4.3) Square Hole  
Also see Optional Mounting Hole  
**Panel Thickness:** .063 (1.6)

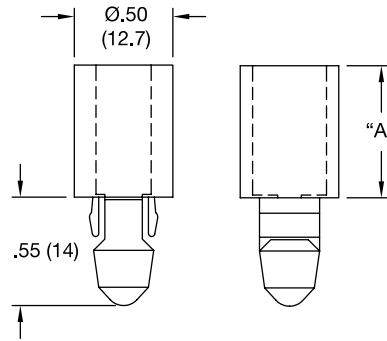
| Standard Pack: 1,000 per bag                               |                        |
|------------------------------------------------------------|------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | "A"<br>Standoff Height |
| MSNE-2-01                                                  | 1/8 (3.2)              |
| MSNE-4M-01                                                 | .16 (4)                |
| MSNE-3-01                                                  | 3/16 (4.8)             |
| MSNE-6M-01                                                 | .24 (6)                |
| MSNE-4-01                                                  | 1/4 (6.4)              |
| MSNE-5-01                                                  | 5/16 (7.9)             |
| MSNE-8M-01                                                 | .31 (8)                |
| MSNE-6-01                                                  | 3/8 (9.5)              |
| MSNE-10M-01                                                | .39 (10)               |
| MSNE-12M-01                                                | .47 (12)               |
| MSNE-8-01                                                  | 1/2 (12.7)             |
| MSNE-10-01                                                 | 5/8 (15.9)             |
| MSNE-12-01                                                 | 3/4 (19.1)             |
| MSNE-16-01                                                 | 1 (25.4)               |

\*Available in UL94 V-0 material by special order.  
To order, replace -01 with -19.

## SN Spacer Nut



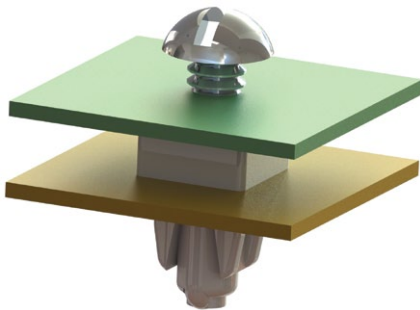
**Top Hole:** For a Metal #8 (4.2) Self-Tapping Screw



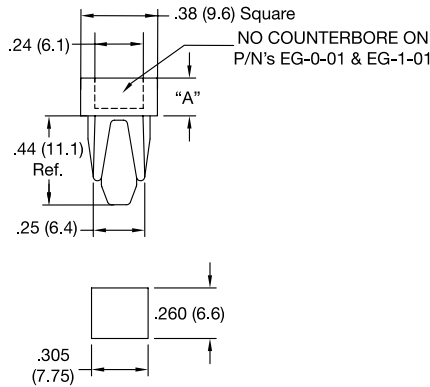
**Bottom Hole:** .312 (7.9) Square Hole  
**Panel Thickness:** .062 (1.57)

| Material: UL94 HB<br>Polycarbonate, RMS-03<br>Color: Clear | Standard Pack:<br>1,000 per bag |
|------------------------------------------------------------|---------------------------------|
|                                                            | "A" Standoff Height             |
| SN-125                                                     | 1/8 (3.2)                       |
| SN-187                                                     | 3/16 (4.8)                      |
| SN-250                                                     | 1/4 (6.4)                       |
| SN-312                                                     | 5/16 (8)                        |
| SN-375                                                     | 3/8 (9.5)                       |
| SN-500                                                     | 1/2 (12.7)                      |

## EG Expansion Grommet



**Top Hole:** For #8 (4.2) or #10 (4.8) Self-Tapping Sheet Metal Screw



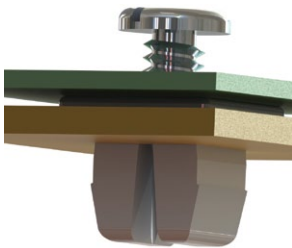
**Mounting Hole**

**Panel Thickness:** .020 - .076 (0.51 - 1.93)

| Material: UL94 V-2<br>Nylon 6/6, RMS-01*<br>Color: Natural | Standard Pack:<br>1,000 per bag |
|------------------------------------------------------------|---------------------------------|
|                                                            | "A" Standoff Height             |
| EG-0-01                                                    | 1/32 (0.8)                      |
| EG-1-01                                                    | 1/16 (1.6)                      |
| EG-2-01                                                    | 1/8 (3.2)                       |
| EG-3-01                                                    | 3/16 (4.8)                      |
| EG-4-01                                                    | 1/4 (6.4)                       |
| EG-5-01                                                    | 5/16 (7.9)                      |
| EG-6-01                                                    | 3/8 (9.5)                       |
| EG-7-01                                                    | 7/16 (11.1)                     |
| EG-8-01                                                    | 1/2 (12.7)                      |

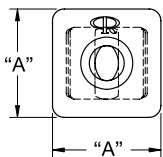
\*Available in UL94 V-0 material by special order.  
To order, replace -01 with -19.

## SRSG Self-Retaining Screw Grommet

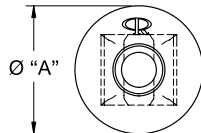


**Head Style 1**

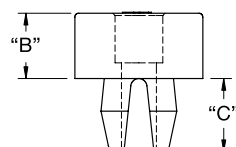
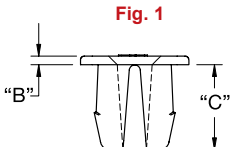
**Head Style 2**



**Fig. 1**



**Fig. 2**



| Material: UL94 V-2 Nylon 6/6, RMS-01<br>Color: Natural |                |             |               | Standard Pack: 1,000 per bag |                           |                               |      |            |  |  |
|--------------------------------------------------------|----------------|-------------|---------------|------------------------------|---------------------------|-------------------------------|------|------------|--|--|
| Part No.                                               | “A”            | “B”         | “C”           | Mounting Hole Size (Square)  | Panel Thickness Range     | Metal Self-Tapping Screw Size | Fig. | Head Style |  |  |
| SRSG6-04-01                                            | .38 (9.7))     | .04 (1)     | .280<br>(7.1) | .250 (6.4)                   | .031-.125<br>(0.79-3.18)  | #6                            | 1    | 1          |  |  |
| SRSG-1D                                                | Ø.49<br>(12.4) | .250 (6.4)  |               | .284 (7.2)                   | *.031-.109<br>(0.79-2.77) | #8 or #10                     | 2    | 2          |  |  |
| SRSG-2D                                                |                | .312 (7.9)  |               |                              |                           |                               |      |            |  |  |
| SRSG-3D                                                |                | .375 (9.5)  |               |                              |                           |                               |      |            |  |  |
| SRSG-4D                                                |                | .500 (12.7) |               |                              |                           |                               |      |            |  |  |
| SRSG-5D                                                |                | .625 (15.9) |               |                              |                           |                               |      |            |  |  |
| SRSG-6D                                                |                | .687 (17.4) |               |                              |                           |                               |      |            |  |  |
| SRSG-7S                                                | .405 (10.3)    | .032 (0.8)  | .325<br>(8.3) | .283 (7.18)                  | .031-.130<br>(0.79-3.3)   | #8 or #10                     | 1    | 1          |  |  |
| SRSG-8S                                                |                | .062 (1.6)  |               | .288 (7.3)                   | .031-.156<br>(0.79-3.96)  |                               |      | 2          |  |  |
| SRSG-9D                                                |                | .098 (2.5)  |               |                              |                           |                               |      |            |  |  |
| SRSG-10D                                               |                | .130 (3.3)  |               |                              |                           |                               |      |            |  |  |
| SRSG-11D                                               |                | .375 (9.5)  |               |                              |                           |                               |      |            |  |  |

\*At minimum panel thickness, part will only function with a #10 (4.8) screw.

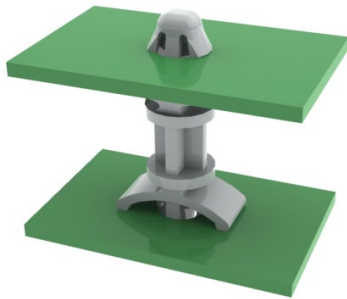
\*At minimum panel thickness, part will only function with a #10 (4.8) screw.

A

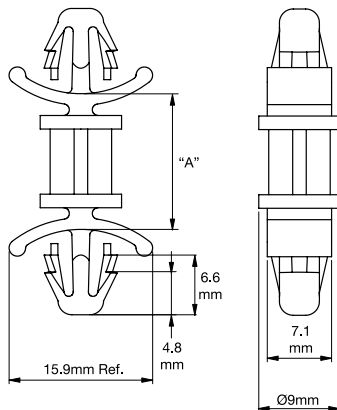
## DLCBSHD

Metric Heavy Duty  
Circuit Board Support

**NEW**



Top Hole: Snap-lock: 6.3mm  
Panel Thickness: 0.8-2.2mm



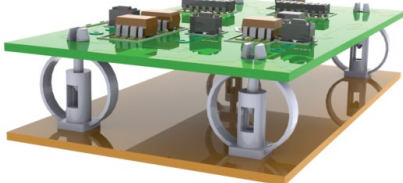
| Standard Pack: 1,000 per bag, Color: Natural |                                         |                              |
|----------------------------------------------|-----------------------------------------|------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01      | Material: UL94 V-0<br>Nylon 6/6, RMS-19 | "A"<br>Standoff Height<br>mm |
| DLCBSHD-10M-01                               | DLCBSHD-10M-19                          | 10                           |
| DLCBSHD-20M-01                               | DLCBSHD-20M-19                          | 20                           |
| DLCBSHD-25M-01                               | DLCBSHD-25M-19                          | 25                           |
| DLCBSHD-30M-01                               | DLCBSHD-30M-19                          | 30                           |
| DLCBSHD-35M-01                               | DLCBSHD-35M-19                          | 35                           |

Bottom Hole: Snap-lock: 6.3mm  
Panel Thickness: 0.8-2.2mm

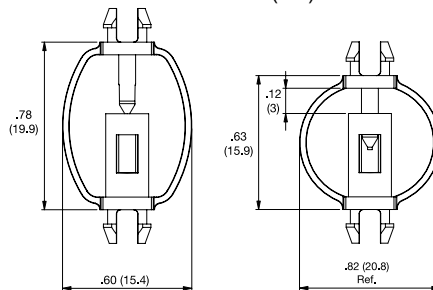
## CBSP-1

PCB Spring Spacer

**NEW**



Top Hole: Snap-lock: .189 (4.8)  
Panel Thickness: .063 (1.6)



As Molded

Assembled

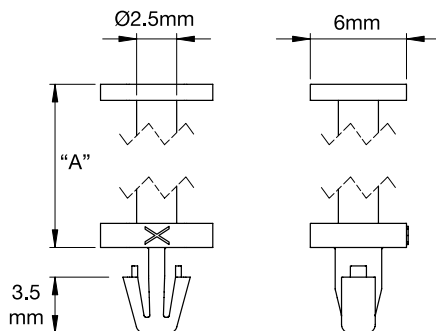
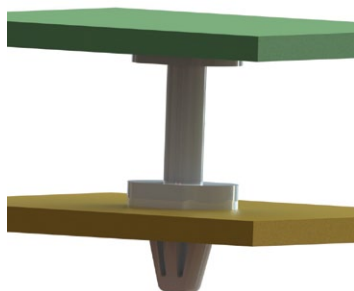
Bottom Hole: Snap-lock: .189 (4.8)  
Panel Thickness: .063 (1.6)

|                                  |        |
|----------------------------------|--------|
| Material: UL94 HB Acetal, RMS-61 |        |
| Color: Natural                   |        |
| Standard Pack: 1,000 per bag     |        |
| Part No.                         | CBSP-1 |

## PSD

Metric Push Spacer

**NEW**

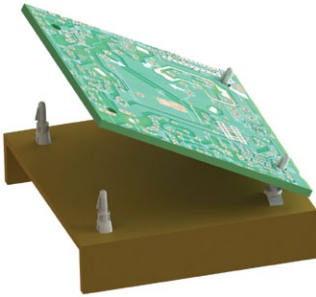


Bottom Hole: Snap-lock: 3 - 3.1mm  
Panel Thickness: 1.6mm

| Standard Pack: 1,000 per bag                              |                                                           |                              |
|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------|
| Material: UL94 V-2<br>Nylon 6/6, RMS-01<br>Color: Natural | Material: UL94 V-0<br>Nylon 6/6, RMS-19<br>Color: Natural | "A"<br>Standoff Height<br>mm |
| PSD-4M-01                                                 | PSD-4M-19                                                 | 4                            |
| PSD-6M-01                                                 | PSD-6M-19                                                 | 6                            |
| PSD-7M-01                                                 | PSD-7M-19                                                 | 7                            |
| PSD-8M-01                                                 | PSD-8M-19                                                 | 8                            |
| PSD-10M-01                                                | PSD-10M-19                                                | 10                           |
| PSD-12M-01                                                | PSD-12M-19                                                | 12                           |
| PSD-14M-01                                                | PSD-14M-19                                                | 14                           |
| PSD-18M-01                                                | PSD-18M-19                                                | 18                           |

## FLCBS

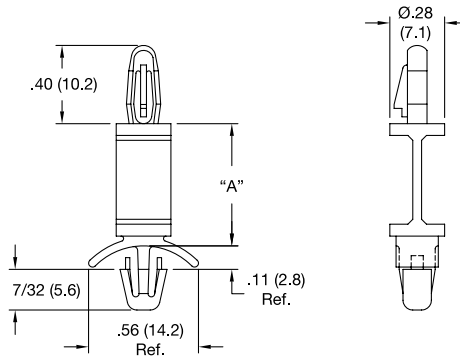
### Flexible Circuit Board Support



#### Features

- Flexible spacer allows access to underside of board for maintenance and repair

Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)



Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .031 - .078 (0.79 - 1.98)

| Standard Pack: 1,000 per bag                                                         |                        |
|--------------------------------------------------------------------------------------|------------------------|
| Material: UL94 V-2 Nylon 6/6, RMS-01* Color: Natural                                 |                        |
| Part No.                                                                             | "A"<br>Standoff Height |
| FLCBS-6-01                                                                           | 3/8 (9.5)              |
| FLCBS-7-01                                                                           | 7/16 (11.1)            |
| FLCBS-8-01                                                                           | 1/2 (12.7)             |
| FLCBS-10-01                                                                          | 5/8 (15.9)             |
| FLCBS-12-01                                                                          | 3/4 (19.1)             |
| FLCBS-14-01                                                                          | 7/8 (22.2)             |
| FLCBS-16-01                                                                          | 1 (25.4)               |
| FLCBS-18-01                                                                          | 1-1/8 (28.6)           |
| FLCBS-20-01                                                                          | 1-1/4 (31.8)           |
| FLCBS-22-01                                                                          | 1-3/8 (34.9)           |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19. |                        |
| Available by special order only, 5,000 piece minimum.                                |                        |

## CBSPM

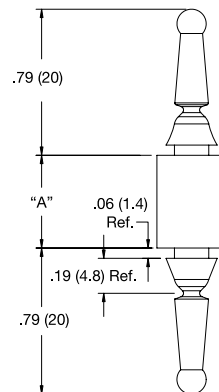
### Pull Mount Circuit Board Support



#### Features

- Once installed, the ends are easily cut off.

Top Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .094 (2.4) Max



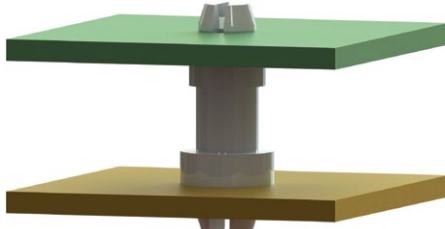
Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .094 (2.4) Max

| Material: EPDM, 45 Shore A, RMS-178 Color: Black |                        |
|--------------------------------------------------|------------------------|
| Standard Pack: 1,000 per bag                     |                        |
| Part No.                                         | "A"<br>Standoff Height |
| CBSPM-4                                          | .250 (6.35)            |
| CBSPM-6                                          | .375 (9.53)            |
| CBSPM-8                                          | .500 (12.7)            |
| CBSPM-10                                         | .625 (15.88)           |
| CBSPM-12                                         | .750 (19.05)           |

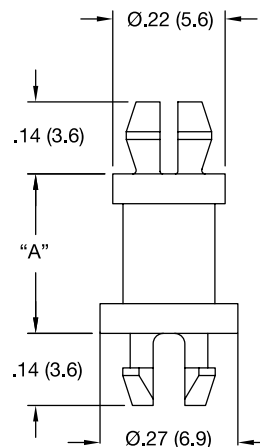
**NEW**

## MSPS

### Mini Support Post



Top Hole: Snap-fit: .156 (4)  
Panel Thickness: .062 (1.57) Max.



Bottom Hole: Snap-lock: .156 (4)  
Panel Thickness: .062 (1.57)

| Material: UL94 V-2 Nylon 6/6, RMS-01*                                               |              |
|-------------------------------------------------------------------------------------|--------------|
| Color: Natural                                                                      |              |
| Standard Pack: 1,000 per bag                                                        |              |
| Part No.                                                                            | "A"          |
| MSPS-3-01                                                                           | 3/16 (4.8)   |
| MSPS-4-01                                                                           | 1/4 (6.4)    |
| MSPS-5-01                                                                           | 5/16 (7.9)   |
| MSPS-6-01                                                                           | 3/8 (9.5)    |
| MSPS-7-01                                                                           | 7/16 (11.1)  |
| MSPS-8-01                                                                           | 1/2 (12.7)   |
| MSPS-10-01                                                                          | 5/8 (15.9)   |
| MSPS-11-01                                                                          | 11/16 (17.5) |
| MSPS-12-01                                                                          | 3/4 (19.1)   |
| MSPS-14-01                                                                          | 7/8 (22.2)   |
| *Available in UL94 V-0 material by special order.<br>To order, replace -01 with -19 |              |
| Available by special order; 5,000 piece minimum                                     |              |

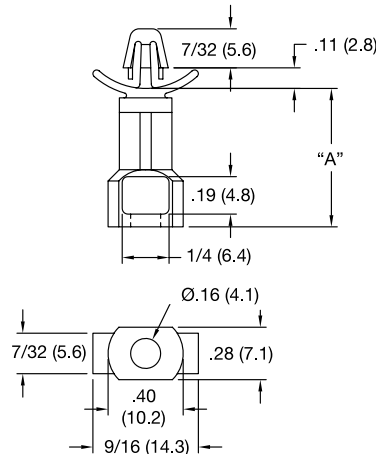
A

## SRLAHS

### Snap Rivet Locking Circuit Board Support



Top Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .031-.078 (0.79-1.98)



Bottom Hole: For Snap Rivet: .161-.165 (4.1-4.2)  
Panel Thickness: See Rivet Table

Material: UL94 V-2, Nylon 6/6, RMS-01\*

Color: Natural

Standard Pack: 1,000 per bag

| Part No.     | "A" Standoff Height |
|--------------|---------------------|
| SRLAHS-7-01  | 7/16 (11.1)         |
| SRLAHS-8-01  | 1/2 (12.7)          |
| SRLAHS-10-01 | 5/8 (15.9)          |
| SRLAHS-12-01 | 3/4 (19.1)          |
| SRLAHS-14-01 | 7/8 (22.2)          |
| SRLAHS-16-01 | 1 (25.4)            |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19

Available by special order;  
5,000 piece minimum.

| Use Richco Rivet Part No. | For Chassis Thickness |
|---------------------------|-----------------------|
| SR-4050                   | .026-.062 (0.7-1.6)   |
| SR-4060                   | .062-.105 (1.5-2.7)   |
| SR-4070                   | .105-.145 (2.7-3.7)   |
| SR-4080                   | .145-.184 (3.7-4.7)   |
| SR-4090                   | .184-.223 (4.7-5.7)   |
| SR-4100                   | .223-.263 (5.7-6.7)   |
| SR-4120                   | .282-.341 (7.2-8.7)   |

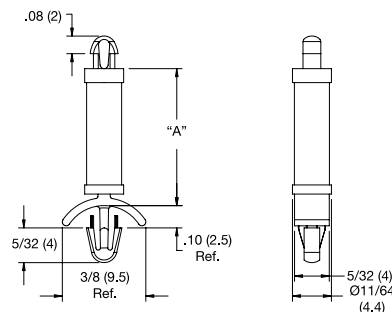
See Page 47

## DLCBSAT

### Dual Locking Support



Top Hole: Snap-lock: .100 (2.54)  
Panel Thickness: .064 (1.63) Max.



Bottom Hole: Snap-lock: .125 (3.18)  
Panel Thickness: .031-.078 (0.79-1.98)

Material: UL94 V-2 Nylon 6/6, RMS-01\*

Color: Natural

Standard Pack: 1,000 per bag

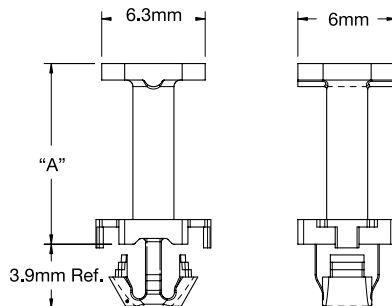
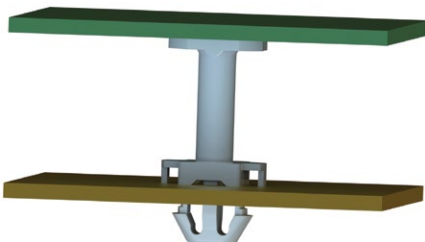
| Part No.      | "A" Standoff Height |
|---------------|---------------------|
| DLCBSAT-2-01  | 1/8 (3.2)           |
| DLCBSAT-3-01  | 3/16 (4.8)          |
| DLCBSAT-4-01  | 1/4 (6.4)           |
| DLCBSAT-5-01  | 5/16 (7.9)          |
| DLCBSAT-6-01  | 3/8 (9.5)           |
| DLCBSAT-7-01  | 7/16 (11.1)         |
| DLCBSAT-8-01  | 1/2 (12.7)          |
| DLCBSAT-9-01  | 9/16 (14.3)         |
| DLCBSAT-10-01 | 5/8 (15.9)          |

\*Available in UL94 V-0 material by special order. To order, replace -01 with -19

Available by special order;  
5,000 piece minimum.

## PSE

### Metric Push Spacer

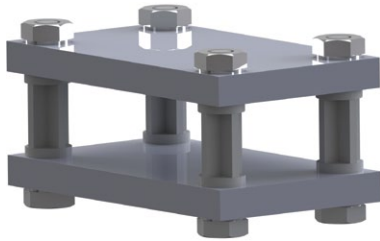


Bottom Hole: Snap-lock: 4 - 4.2mm  
Panel Thickness: 0.8 - 1.6mm

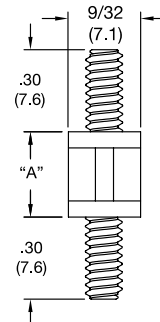
Standard Pack: 1,000 per bag

| Material: UL94 V-2 Nylon 6/6, RMS-01 Color: Natural | Material: UL94 V-0 Nylon 6/6, RMS-19 Color: Natural | "A" Standoff Height mm |
|-----------------------------------------------------|-----------------------------------------------------|------------------------|
| PSE-4M-01                                           | PSE-4M-19                                           | 4                      |
| PSE-6M-01                                           | PSE-6M-19                                           | 6                      |
| PSE-7M-01                                           | PSE-7M-19                                           | 7                      |
| PSE-8M-01                                           | PSE-8M-19                                           | 8                      |
| PSE-10M-01                                          | PSE-10M-19                                          | 10                     |
| PSE-11M-01                                          | PSE-11M-19                                          | 11                     |

## CBS-TMM Threaded Male Spacer



Top Hole: #6-32 Male Thread  
Special Order: M4 Thread

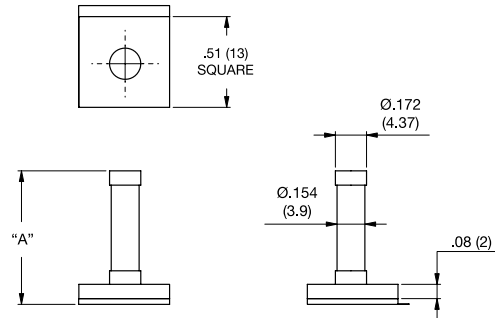


Bottom Hole: #6-32 Male Thread  
Special Order: M4 Thread

| Material: UL94 V-2 Nylon 6/6, RMS-01*                                            |                     |
|----------------------------------------------------------------------------------|---------------------|
| Color: Natural                                                                   |                     |
| Standard Pack: 1,000 per bag                                                     |                     |
| Part No.                                                                         | "A" Standoff Height |
| CBS-TMM-2-01                                                                     | 1/8 (3.2)           |
| CBS-TMM-4-01                                                                     | 1/4 (6.4)           |
| CBS-TMM-6-01                                                                     | 3/8 (9.5)           |
| CBS-TMM-8-01                                                                     | 1/2 (12.7)          |
| CBS-TMM-10-01                                                                    | 5/8 (15.9)          |
| CBS-TMM-12-01                                                                    | 3/4 (19.1)          |
| CBS-TMM-14-01                                                                    | 7/8 (22.2)          |
| CBS-TMM-16-01                                                                    | 1 (25.4)            |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19 |                     |
| M4 thread available by special order. To order, add M4 after TMM-                |                     |
| Available by special order; 5,000 piece minimum                                  |                     |

A

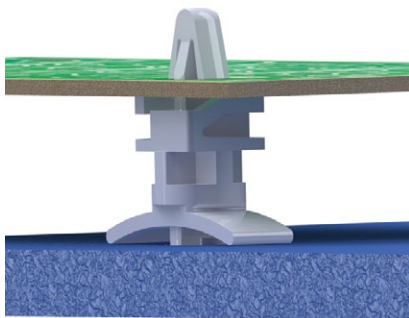
## PSBM Push Spacer on Adhesive Base



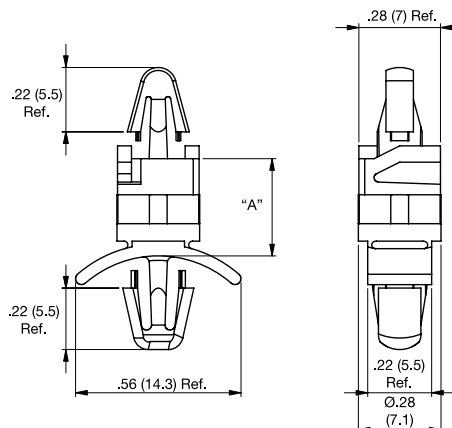
NEW

| Standard Pack: 1,000 per bag                            |                                                        |                     |
|---------------------------------------------------------|--------------------------------------------------------|---------------------|
| Adhesive: .03 (0.8) thick double sided adhesive, RMS-24 |                                                        |                     |
| Material: UL94 V-2 Nylon 6/6, RMS-01<br>Color: Natural  | Material: UL94 V-0 Nylon 6/6, RMS-19<br>Color: Natural | "A" Standoff Height |
| PSBM-3-01A-RT                                           | PSBM-3-19A-RT                                          | .189 (4.8)          |
| PSBM-4-01A-RT                                           | PSBM-4-19A-RT                                          | .252 (6.4)          |
| PSBM-5-01A-RT                                           | PSBM-5-19A-RT                                          | .311 (7.9)          |
| PSBM-6-01A-RT                                           | PSBM-6-19A-RT                                          | .374 (9.5)          |
| PSBM-7-01A-RT                                           | PSBM-7-19A-RT                                          | .437 (11.1)         |
| PSBM-8-01A-RT                                           | PSBM-8-19A-RT                                          | .500 (12.7)         |
| PSBM-9-01A-RT                                           | PSBM-9-19A-RT                                          | .563 (14.3)         |
| PSBM-10-01A-RT                                          | PSBM-10-19A-RT                                         | .626 (15.9)         |
| PSBM-12-01A-RT                                          | PSBM-12-19A-RT                                         | .752 (19.1)         |
| PSBM-14-01A-RT                                          | PSBM-14-19A-RT                                         | .874 (22.2)         |

## DLCBS4 Dual Locking Circuit Board Support



Top Hole: Snap-lock: .156 (4)  
Panel Thickness: .050 - .078 (1.3 - 2)



Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .030 - .078 (0.8 - 2)

| Material: UL94 V-2 Nylon 6/6, RMS-01*                                            |                     |
|----------------------------------------------------------------------------------|---------------------|
| Color: Natural                                                                   |                     |
| Standard Pack: 1,000 per bag                                                     |                     |
| Part No.                                                                         | "A" Standoff Height |
| DLCBS4-3.5-01                                                                    | .217 (5.5)          |
| DLCBS4-4-01                                                                      | .240 (6.1)          |
| DLCBS4-5-01                                                                      | .358 (9.1)          |
| DLCBS4-6-01                                                                      | .488 (12.4)         |
| DLCBS4-8-01                                                                      | .740 (18.8)         |
| DLCBS4-10-01                                                                     | .862 (21.9)         |
| *Available in UL94 V-0 material by special order. To order, replace -01 with -19 |                     |



## CIRCUIT BOARD HARDWARE

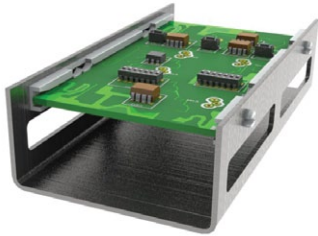
## Notes

A

[illegible]

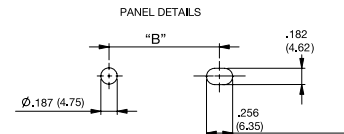
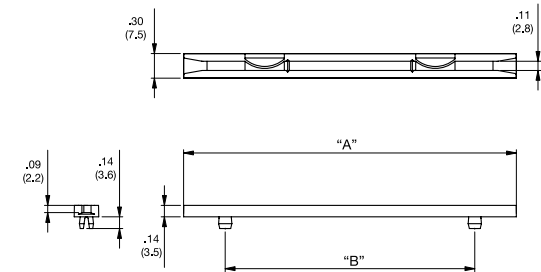
## MPCG Multi Panel Card Guide

**NEW**



| Material: UL94 V0 Nylon 6/6, RMS-19 Color: Natural |             |             | Standard Pack: 500 per bag |                               |
|----------------------------------------------------|-------------|-------------|----------------------------|-------------------------------|
| Part No.                                           | "A" Ref.    | "B"         | Accepts PCB Thickness      | Mounting Hole Panel Thickness |
| MPCG-250                                           | 2.5 (63.5)  | 1.5 (38.1)  | .032-.079 (0.8-2)          | .02-.079 (0.5-2)              |
| MPCG-300                                           | 3.0 (76.2)  | 2.0 (50.8)  |                            |                               |
| MPCG-400                                           | 4.0 (101.6) | 3.0 (76.2)  |                            |                               |
| MPCG-550                                           | 5.5 (139.7) | 4.5 (114.4) |                            |                               |

Available in black color by special order. To order, add BK to the end of the part number



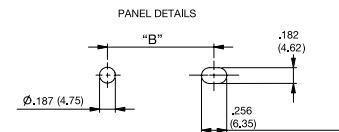
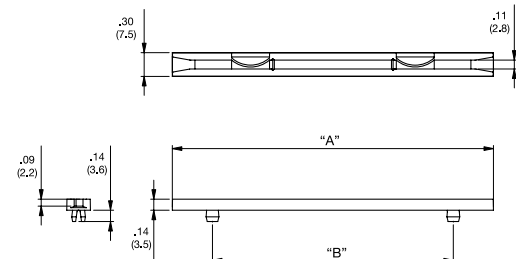
## MPCGCN ESD Card Guides

**NEW**

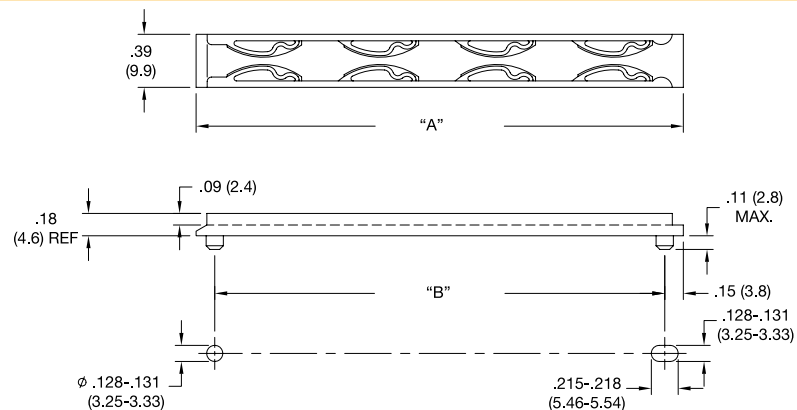
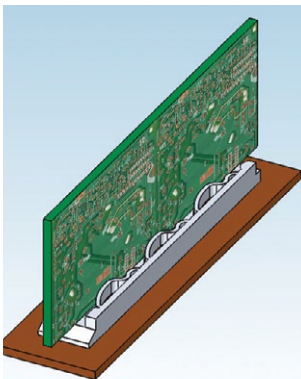
| Material: Conductive Compound, Nylon 6, RMS-392 Color: Black |             |             | Standard Pack: 500 per bag |                               |
|--------------------------------------------------------------|-------------|-------------|----------------------------|-------------------------------|
| Part No.                                                     | "A" Ref.    | "B"         | Accepts PCB Thickness      | Mounting Hole Panel Thickness |
| MPCGCN-250                                                   | 2.5 (63.5)  | 1.5 (38.1)  | .032-.079 (0.8-2)          | .02-.079 (0.5-2)              |
| MPCGCN-300                                                   | 3.0 (76.2)  | 2.0 (50.8)  |                            |                               |
| MPCGCN-400                                                   | 4.0 (101.6) | 3.0 (76.2)  |                            |                               |
| MPCGCN-550                                                   | 5.5 (139.7) | 4.5 (114.4) |                            |                               |

### Features

- Molded from conductive compound material
- Provides surface resistivity of  $10^3$  OHM<sup>2</sup>
- Helps to protect static sensitive components from Electro Static Discharge



## TRCG Tension Rack Card Guide



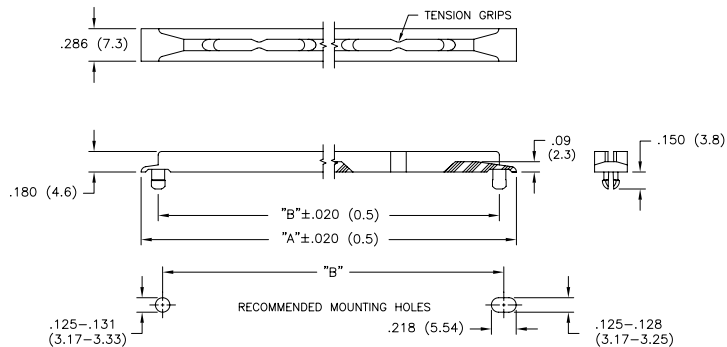
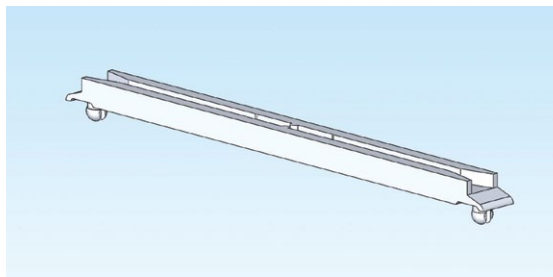
Mounts Into Holes Above

| Material: UL94 V0 Polycarbonate, RMS-23 |              |               | Color: Black               |                               |
|-----------------------------------------|--------------|---------------|----------------------------|-------------------------------|
| Standard Pack: 500 per bag              |              |               |                            |                               |
| Part No.                                | "A"          | "B"           | Accepts PCB Thickness      | Mounting Hole Panel Thickness |
| TRCG-2.500                              | 2.50 (63.5)  | 2.2 (55.9)    | .050 - .087<br>(1.3 - 2.2) | .06 - .07 (1.5 - 1.8)         |
| TRCG-3.300                              | 3.30 (83.8)  | 3 (76.2)      |                            |                               |
| TRCG-3.925                              | 3.93 (99.7)  | 3-5/8 (92.1)  |                            |                               |
| TRCG-6.675                              | 6.68 (169.6) | 6-3/8 (161.9) |                            |                               |

# CARD GUIDES & PULLERS

## TCG

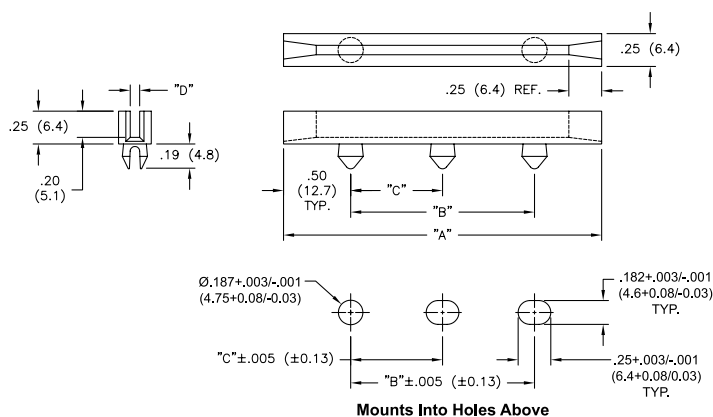
### Tension Card Guide



| Mat'l: UL94 V0 Polycarbonate, RMS-23 |               |               |                 | Color: Black          |                               |
|--------------------------------------|---------------|---------------|-----------------|-----------------------|-------------------------------|
| Standard Pack: 500 per bag           |               |               |                 |                       |                               |
| Part No.                             | "A"           | "B"           | Number of Grips | Accepts PCB Thickness | Mounting Hole Panel Thickness |
| TCG1-2.500-23                        | 2.500 (63.5)  | 2.200 (55.9)  | 1               | .062 (1.6)            | .062 (1.6)                    |
| TCG1-3.300-23                        | 3.300 (83.8)  | 3.000 (76.2)  | 2               |                       |                               |
| TCG1-3.925-23                        | 3.925 (99.7)  | 3.625 (92.1)  |                 |                       |                               |
| TCG1-6.675-23                        | 6.675 (169.5) | 6.375 (161.9) | 4               |                       |                               |

## RDC

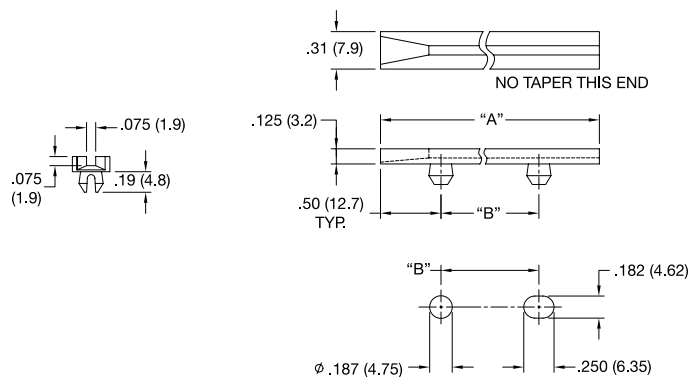
### Deep Channel Card Guide



| Material: UL94 V0 Nylon 6/6, RMS-66 |             |             |            |               | Color: Black          |                               |
|-------------------------------------|-------------|-------------|------------|---------------|-----------------------|-------------------------------|
| Standard Pack: 500 per bag          |             |             |            |               |                       |                               |
| Part No.                            | "A" Ref     | "B"         | "C"        | "D"           | Accepts PCB Thickness | Mounting Hole Panel Thickness |
| RDC-250                             | 2.5 (63.5)  | 1.5 (38.1)  | -          | .080 (2)      | 1/16 (1.6)            | .047 - .090<br>(1.2 - 2.3)    |
| RDC-450                             | 4.5 (114.3) | 3.5 (88.9)  |            |               |                       |                               |
| RDC-600                             | 6.0 (152.4) | 5.0 (127)   |            |               |                       |                               |
| RDC-800                             | 8.0 (203.2) | 7.0 (177.8) | 3.5 (88.9) | .102<br>(2.6) | 3/32 (2.4)            |                               |
| RDC-450-102                         | 4.5 (114.3) | 3.5 (88.9)  | -          |               |                       |                               |
| RDC-600-102                         | 6.0 (152.4) | 5.0 (127)   |            |               |                       |                               |
| RDC-800-102                         | 8.0 (203.2) | 7.0 (177.8) |            | 3.5 (88.9)    | .132<br>(3.4)         |                               |
| RDC-450-130                         | 4.5 (114.3) | 3.5 (88.9)  | -          |               |                       |                               |
| RDC-600-130                         | 6.0 (152.4) | 5.0 (127)   |            |               |                       |                               |
| RDC-800-130                         | 8.0 (203.2) | 7.0 (177.8) |            | 3.5 (88.9)    |                       |                               |

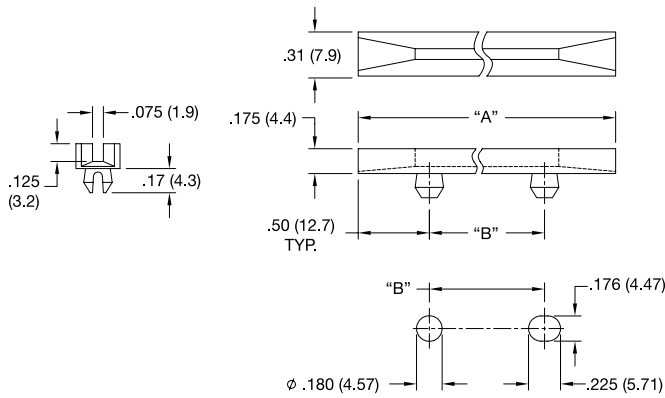
## RSFS

### Snap-In Card Guide



| Mat'l: UL94 V2 Nylon 6/6, RMS-48 Color: Natural |             |             |                       |                               |
|-------------------------------------------------|-------------|-------------|-----------------------|-------------------------------|
| Standard Pack: 500 per bag                      |             |             |                       |                               |
| Part No.                                        | "A"         | "B"         | Accepts PCB Thickness | Mounting Hole Panel Thickness |
| RSFS-250                                        | 2.5 (63.5)  | 1.5 (38.1)  | .062 (1.6)            | .047 - .090<br>(1.2 - 2.3)    |
| RSFS-300                                        | 3.0 (76.2)  | 2.0 (50.8)  |                       |                               |
| RSFS-350                                        | 3.5 (88.9)  | 2.5 (63.5)  |                       |                               |
| RSFS-400                                        | 4.0 (101.6) | 3.0 (76.2)  |                       |                               |
| RSFS-450                                        | 4.5 (114.3) |             |                       |                               |
| RSFS-451                                        |             | 3.5 (88.9)  |                       |                               |
| RSFS-500                                        | 5.0 (127)   | 4.0 (101.6) |                       |                               |
| RSFS-550                                        | 5.5 (139.7) | 4.5 (114.3) |                       |                               |
| RSFS-600                                        | 6.0 (152.4) | 5.0 (127.0) |                       |                               |
| RSFS-700                                        | 7.0 (177.8) | 6.0 (152.4) |                       |                               |
| RSFS-800                                        | 8.0 (203.2) | 7.0 (177.8) |                       |                               |

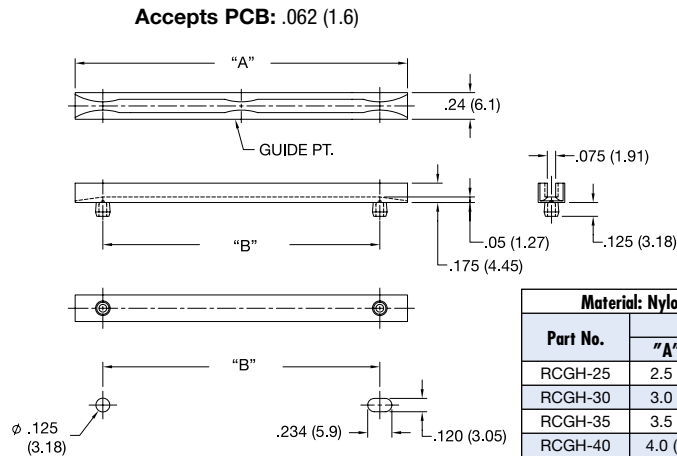
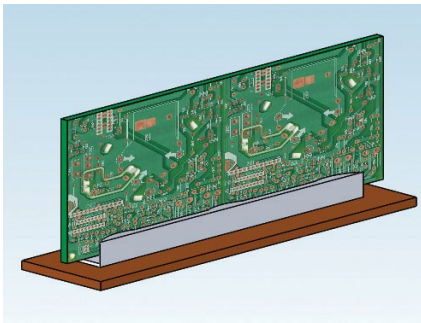
## RSDC Snap-In Card Guide



Mounts Into Holes Above

| Material: UL94 V2 Nylon 6/6, RMS-48 |             |             | Color: Natural        |                               |
|-------------------------------------|-------------|-------------|-----------------------|-------------------------------|
| Standard Pack: 500 per bag          |             |             |                       |                               |
| Part No.                            | "A" Ref.    | "B"         | Accepts PCB Thickness | Mounting Hole Panel Thickness |
| RSDC-250                            | 2.5 (63.5)  | 1.5 (38.1)  | .062 (1.6)            | .047 - .090<br>(1.2 - 2.3)    |
| RSDC-300                            | 3.0 (76.2)  | 2.0 (50.8)  |                       |                               |
| RSDC-350                            | 3.5 (88.9)  | 2.5 (63.5)  |                       |                               |
| RSDC-400                            | 4.0 (101.6) | 3.0 (76.2)  |                       |                               |
| RSDC-450                            | 4.5 (114.3) | 3.5 (88.9)  |                       |                               |
| RSDC-500                            | 5.0 (127)   | 4.0 (101.6) |                       |                               |
| RSDC-550                            | 5.5 (139.7) | 4.5 (114.3) |                       |                               |
| RSDC-600                            | 6.0 (152.4) | 5.0 (127)   |                       |                               |
| RSDC-650                            | 6.5 (164.1) | 5.5 (139.7) |                       |                               |
| RSDC-700                            | 7.0 (177.8) | 6.0 (152.4) |                       |                               |
| RSDC-750                            | 7.5 (190.5) | 6.5 (165.1) |                       |                               |
| RSDC-800                            | 8.0 (203.2) | 7.0 (177.8) |                       |                               |

## RCGH Rack Card Guide Type H

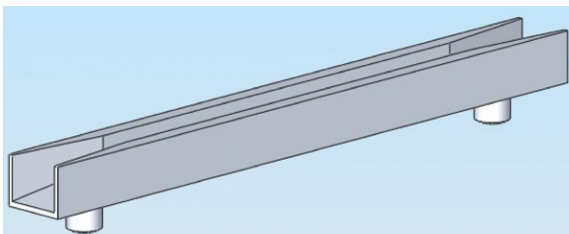


Mounts Into Holes Above  
Mounts Into Panel: .062 (1.6)

| Material: Nylon 6/6, RMS-01* • Color: Natural |             |             |           |
|-----------------------------------------------|-------------|-------------|-----------|
| Standard Pack: 500 per bag                    |             |             |           |
| Part No.                                      | "A" Ref.    | "B"         | Guide PT. |
| RCGH-25                                       | 2.5 (63.5)  | 2.0 (50.8)  | 2         |
| RCGH-30                                       | 3.0 (76.2)  | 2.5 (63.5)  | 3         |
| RCGH-35                                       | 3.5 (88.9)  | 3.0 (76.2)  | 3         |
| RCGH-40                                       | 4.0 (101.6) | 3.5 (88.9)  | 4         |
| RCGH-45                                       | 4.5 (114.3) | 4.0 (101.6) | 4         |
| RCGH-50                                       | 5.0 (127)   | 4.5 (114.3) | 4         |
| RCGH-55                                       | 5.5 (139.7) | 5.0 (127)   | 5         |
| RCGH-60                                       | 6.0 (152.4) | 5.5 (139.7) | 5         |

\*Available in UL94 V0 material by special order.

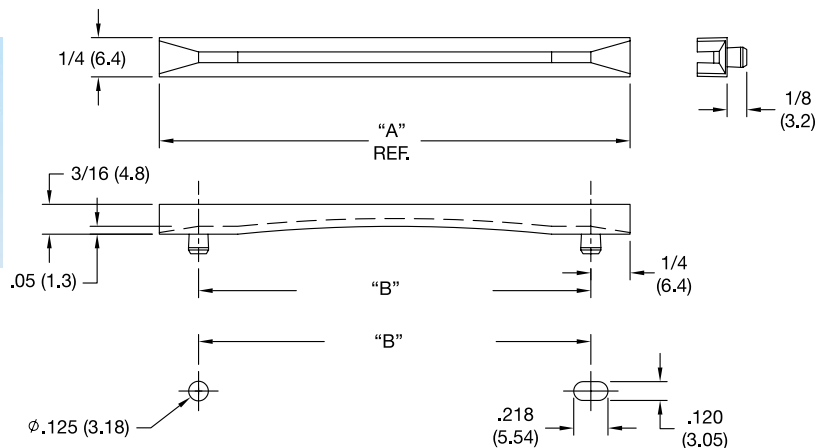
## RCG Rack Card Guide



| Material: Nylon 6/6, RMS-01*<br>Color: Natural |             |             |
|------------------------------------------------|-------------|-------------|
| Standard Pack: 500 per bag                     |             |             |
| Part No.                                       | "A"         | "B"         |
| RCG-1                                          | 3.0 (76.2)  | 2.5 (63.5)  |
| RCG-2                                          | 4.0 (101.6) | 3.5 (88.9)  |
| RCG-3                                          | 6.0 (152.4) | 5.5 (139.7) |
| RCG-4                                          | 8.5 (215.9) | 8.0 (203.2) |

\*Available in UL94 V0 material by special order.

Accepts PCB: .062 (1.6)

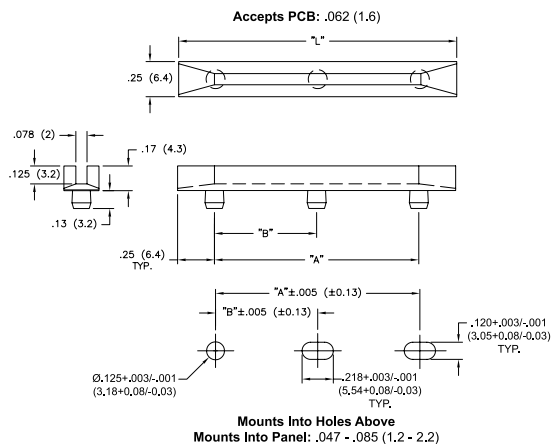
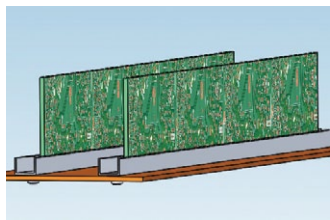


Mounts Into Holes Above  
Mounts Into Panel: .062 (1.6)

# CARD GUIDES & PULLERS

## RN

### Narrow Card Guide

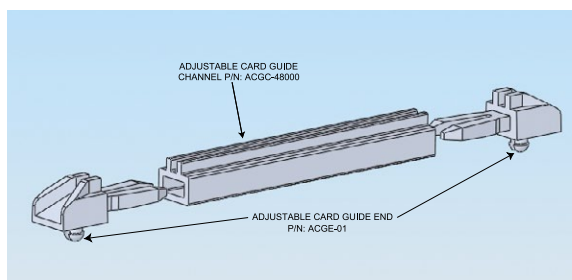
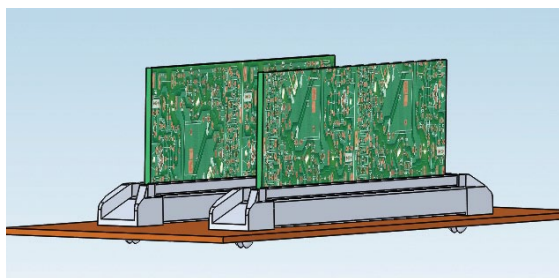


| RN                                          |                 | Standard Pack: 500 per bag |                  |
|---------------------------------------------|-----------------|----------------------------|------------------|
| Mat'l: Nylon 6/6, RMS-48*<br>Color: Natural | "L" ± .03 (0.8) | "A" ± .024 (0.6)           | "B" ± .016 (0.4) |
| RN-250-2                                    | 2.5 (63.5)      | 2.0 (50.8)                 | -                |
| RN-300-2                                    | 3.0 (76.2)      | 2.5 (63.5)                 | -                |
| RN-350-2                                    | 3.5 (88.9)      | 3.0 (76.2)                 | -                |
| RN-400-2                                    | 4.0 (101.6)     | 3.5 (88.9)                 | -                |
| RN-450-2                                    | 4.5 (114.3)     | 4.0 (101.6)                | -                |
| RN-500-2                                    | 5.0 (127)       | 4.5 (114.3)                | -                |
| RN-550-2                                    | 5.5 (139.7)     | 5.0 (127)                  | -                |
| RN-600-2                                    | 6.0 (152.4)     | 5.5 (139.7)                | -                |
| RN-650-2                                    | 6.5 (164.1)     | 6.0 (152.4)                | -                |
| RN-700-3                                    | 7.0 (177.8)     | 6.5 (164.1)                | 3.25 (82.2)      |
| RN-750-3                                    | 7.5 (190.5)     | 7.0 (177.8)                | 3.5 (88.5)       |
| RN-800-3                                    | 8.0 (203.2)     | 7.5 (190.5)                | 3.75 (94.9)      |
| RN-850-3                                    | 8.5 (215.9)     | 8.0 (203.2)                | 4.0 (101.6)      |

\*Available in UL94 V0 material by special order only.

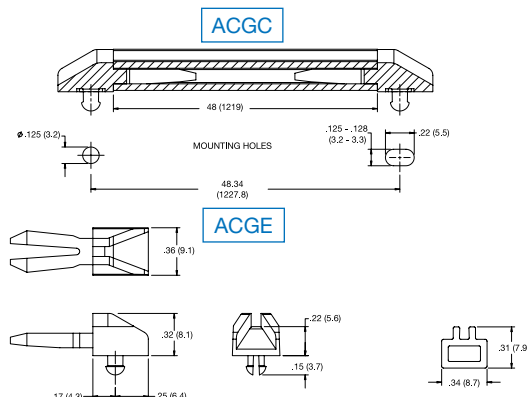
## ACGC/ACGE

### Adjustable Card Guide



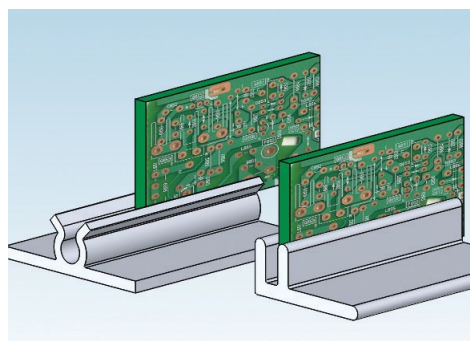
| Part. No. | Description | Material                  | Color   | Standard Pack                                   | Accepts PCB Thickness | Mounting Hole Panel Thickness |
|-----------|-------------|---------------------------|---------|-------------------------------------------------|-----------------------|-------------------------------|
| ACGE-01   | End Pieces  | UL94 V2 Nylon 6/6, RMS-01 | Natural | 100 per bag                                     | .062 (1.6)            | .062 (1.6)                    |
| ACGC-4800 | Channel     | UL94 V0 PVC, RMS-04       |         | 100 feet: 25 pieces x 48" (25 pieces x 1,219mm) |                       |                               |

ACGC available in custom lengths by special order.

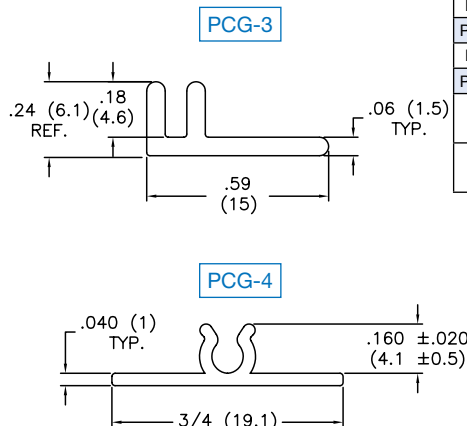


## PCG

### Printed Circuit Guide



Accepts PCB: .062 (1.6)

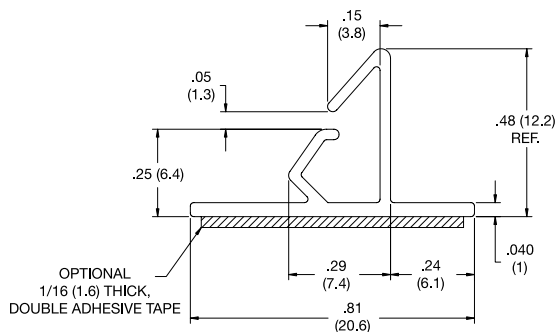


| Part No.  | Material                | Adhesive        |
|-----------|-------------------------|-----------------|
| PCG-3-48  | ABS, RMS-09 Color: Gray | N/A             |
| PCG-3A-48 | ABS, RMS-09 Color: Gray | Acrylic, RMS-15 |
| PCG-4-48  | PVC, RMS-04 Color: Gray | N/A             |
| PCG-4A-48 | PVC, RMS-04 Color: Gray | Acrylic, RMS-15 |

Standard Pack: 100 feet: 25 pieces x 48", (25 pieces x 1,219.2mm) lengths  
Custom cut lengths and/or drilling is available by special order.

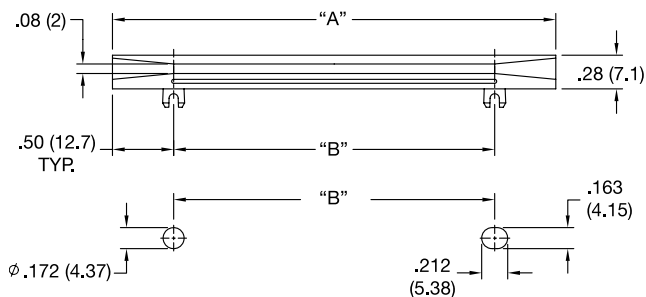
## B

A cross-sectional diagram of a roof assembly. It shows a brown concrete base with two metal purlins. A green vegetative layer is placed on top of the purlins, with a metal deck visible underneath it.



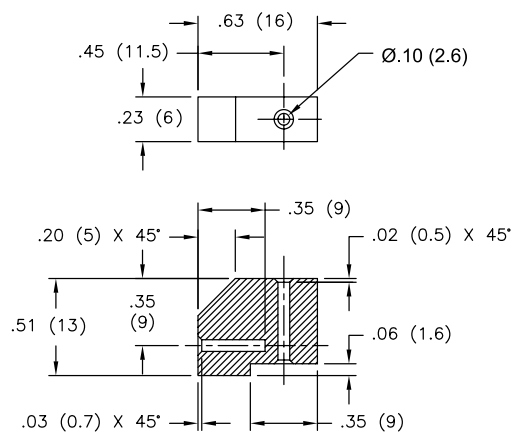
| Part No.                                                                             | Material                 | Adhesive        |
|--------------------------------------------------------------------------------------|--------------------------|-----------------|
| BMS-SA-48                                                                            | PVC, RMS-04 Color: Black | N/A             |
| BMS-SA-48                                                                            | PVC, RMS-04 Color: Black | Acrylic, RMS-15 |
| <b>Standard Pack: 100 feet: 25 pieces x 48",<br/>(25 pieces x 1,219.2mm) lengths</b> |                          |                 |
| <b>Custom cut lengths are available by special order.</b>                            |                          |                 |

A cross-sectional diagram of a composite beam. It shows a grey I-beam (steel) with a green layer (representing a composite action interface or a thin layer of concrete) on top of its upper flange. This green layer is topped by a thick, textured grey layer representing a concrete slab. The entire assembly is supported by a brown base, which is shown in cross-section with small circles representing supports or fasteners.



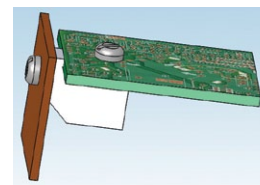
### Mounts Into Holes Above

|                                         |             |             |                              |                                      |
|-----------------------------------------|-------------|-------------|------------------------------|--------------------------------------|
| <b>Mat'l: UL94 V0 Nylon 6/6, RMS-66</b> |             |             | <b>Color: Black</b>          |                                      |
| <b>Standard Pack: 500 per bag</b>       |             |             |                              |                                      |
| <b>Part No.</b>                         | <b>"A"</b>  | <b>"B"</b>  | <b>Accepts PCB Thickness</b> | <b>Mounting Hole Panel Thickness</b> |
| RSSHG-201-165                           | 2.0 (50.8)  | 1.0 (25.4)  | .062 (1.6)                   | .047 - .090<br>(1.2 - 2.3)           |
| RSSHG-251-165                           | 2.5 (63.5)  | 1.5 (38.1)  |                              |                                      |
| RSSHG-301-165                           | 3.0 (76.2)  | 2.0 (50.8)  |                              |                                      |
| RSSHG-351-165                           | 3.5 (88.9)  | 2.5 (63.5)  |                              |                                      |
| RSSHG-401-165                           | 4.0 (101.6) | 3.0 (76.2)  |                              |                                      |
| RSSHG-451-165                           | 4.5 (114.3) | 3.5 (88.9)  |                              |                                      |
| RSSHG-501-165                           | 5.0 (127)   | 4.0 (101.6) |                              |                                      |
| RSSHG-601-165                           | 6.0 (152.4) | 5.0 (127)   |                              |                                      |



**Mounts Holes:** Accepts a self-tapping screw

|                                                                                                 |
|-------------------------------------------------------------------------------------------------|
| Standard Pack: 1,000 per bag                                                                    |
| Mat'l: Nylon<br>6/6, <b>RMS-01*</b><br>Color: Natural                                           |
| <b>*Available in UL94 V0 material<br/>by special order.<br/>To order, replace -01 with -19.</b> |



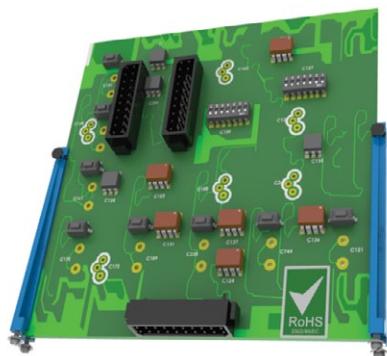


# CARD GUIDES & PULLERS

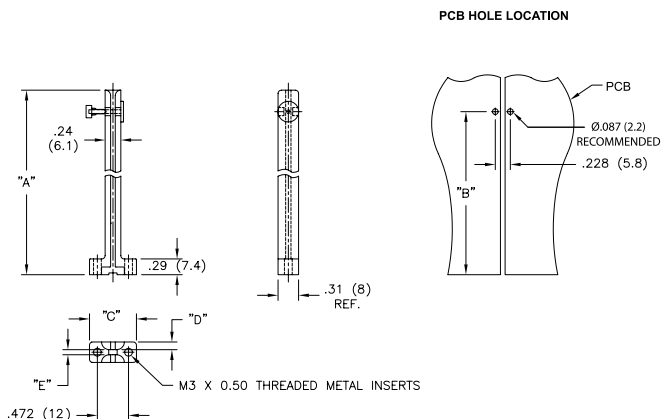
## VMCG

### Vertical Mount Card Guides

Fig. 1



Patent 6,547,082



### Features

- Includes mounting hardware: screw, washer and lockwasher

Fig. 2

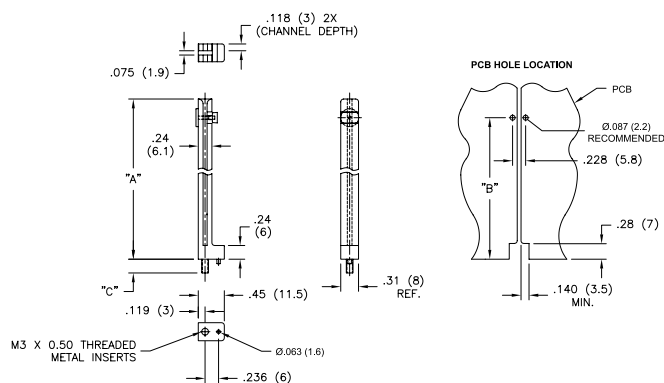
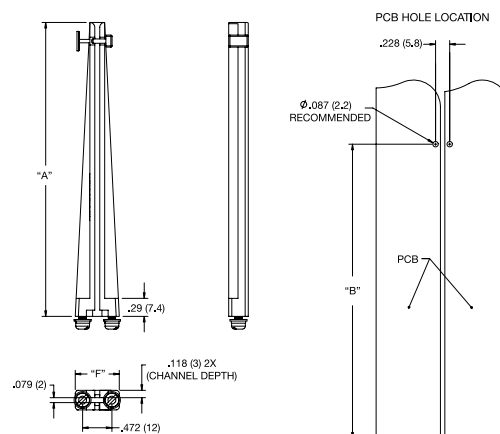


Fig. 3



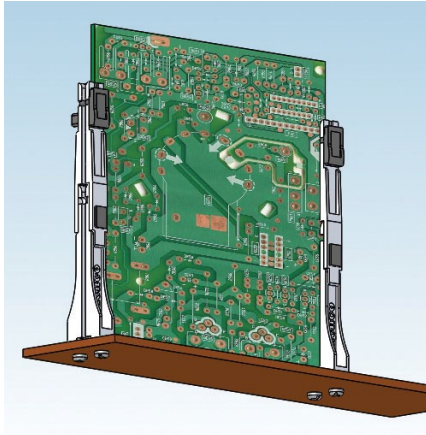
Mat'l: Card Guide: GF Nylon 6, RMS-38; Color: Grey; Locking Mechanism: HDPE, RMS-284; Color: Black, Metal Pin: Stainless Steel, RMS-228; Screws: Mild Steel, Zinc Plated, RMS-415; Washers: Stainless Steel, RMS-228; Threaded Insert: Brass, RMS-231

Standard Pack: 100 per bag

| Part No.        | "A"         | "B"          | "C"       | "D"        | "E"        | "F"      | Type | Accepts PCB Thickness | Mounting Hole Panel Thickness              |
|-----------------|-------------|--------------|-----------|------------|------------|----------|------|-----------------------|--------------------------------------------|
| VMCG-50-MPBK-K  | 1.83 (46.5) | 1.67 (42.3)  | .71 (18)  | .104 (2.6) | .105 (2.7) | -        | 1    | .062 (1.6)            | Up to .125 (3.18) with M3 Screw (provided) |
| VMCG-65-MPBK-K  | 2.56 (65.0) | 2.22 (56.5)  | .71 (18)  | .118 (3)   | .079 (2)   | -        | 2    |                       |                                            |
| VMCG-70-MPBK-K  | 2.76 (70.1) | 2.44 (62.5)  | .22 (5.6) | -          | -          | -        | 1    |                       |                                            |
| VMCG-90-MPBK-K  | 3.54 (90)   | 3.21 (81.5)  | .71 (18)  | .118 (3)   | .079 (2)   | -        | 2    |                       |                                            |
| VMCG-100-MPBK-K | 3.94 (100)  | 3.62 (92)    | .35 (8.9) | -          | -          | -        | 1    |                       |                                            |
| VMCG-135-MPBK-K | 5.31 (135)  | 4.98 (126.5) | .75 (19)  | .118 (3)   | .079 (2)   | -        | 3    |                       |                                            |
| VMCG-160-MPBK-K | 6.30 (160)  |              | .75 (19)  |            |            |          | 1    |                       |                                            |
| VMCG-320-MPBK-K | 4.73 (120)  | 4.43 (112.5) | -         | -          | -          | .71 (18) | 3    |                       |                                            |
| VMCG-330-MPBK-K |             |              | .71 (18)  | .118 (3)   | .079 (2)   | -        | 1    |                       |                                            |
| VMCG-360-MPBK-K | 6.30 (160)  |              | -         | -          | -          | .75 (19) | 3    |                       |                                            |

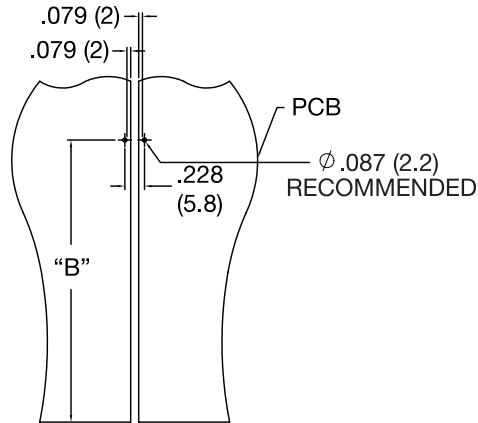
## VMCGN

### Vertical Mount Card Guides

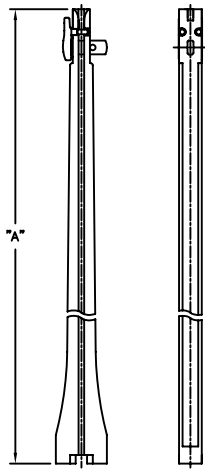


Patent 6,547,082

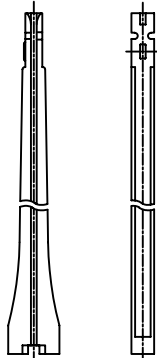
### PCB Hole Location



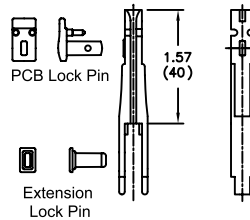
**Fig. 1  
Base**



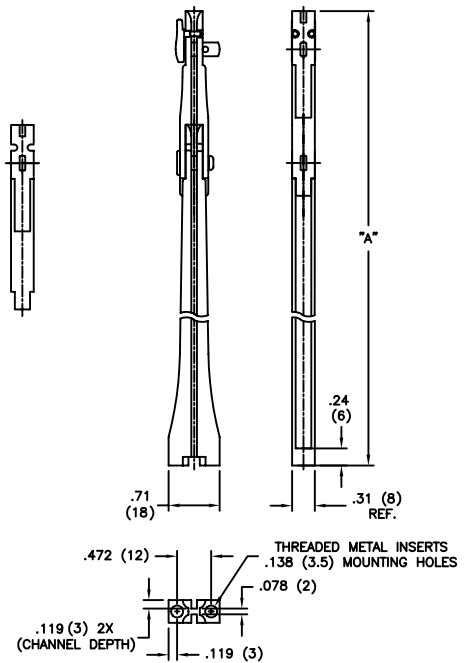
**Fig. 2  
Base**



**Fig. 3  
Extension**



**Fig 2 + Fig. 3 Assembly**



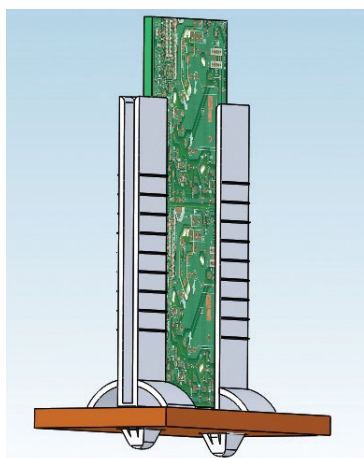
| Mat'l: Card Guide: UL94 V0 Polystyrene, RMS-117, Color: Blue; Locking Mechanism: Acetal, RMS-39, Color: White; Screws: Mild Steel, Zinc Plated, RMS-415; Washers: Stainless Steel, RMS-228; Threaded Insert: Brass, RMS-231 |             |            |                 |       |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-----------------|-------|-----------------------|
| Standard Pack: 100 per bag                                                                                                                                                                                                  |             |            |                 |       |                       |
| Part No.                                                                                                                                                                                                                    | "A"         | "B"        | Threaded Insert | Fig   | Accepts PCB Thickness |
| VMCGN-065-M3-LSWT-K                                                                                                                                                                                                         | 2.56 (65.0) | 2.24 (57)  | M3              | 1     | 079 (2)               |
| VMCGN-065-4/40-LSWT                                                                                                                                                                                                         |             |            | 4/40            |       |                       |
| VMCGN-105-M3-LSWT-K                                                                                                                                                                                                         | 4.13 (105)  | 3.82 (97)  | M3              | 2 + 3 |                       |
| VMCGN-105-4/40-LSWT                                                                                                                                                                                                         |             |            | 4/40            |       |                       |
| VMCGN-120-M3-LSWT-K                                                                                                                                                                                                         | 4.72 (120)  | 4.41 (112) | M3              | 1     |                       |
| VMCGN-120-4/40-LSWT                                                                                                                                                                                                         |             |            | 4/40            |       |                       |
| VMCGN-160-M3-LSWT-K                                                                                                                                                                                                         | 6.30 (160)  | 5.98 (152) | M3              | 2 + 3 |                       |
| VMCGN-160-4/40-LSWT                                                                                                                                                                                                         |             |            | 4/40            |       |                       |
| Part numbers ending in -K include M3 threaded screw, washer and lock washer mounting hardware                                                                                                                               |             |            |                 |       |                       |

# CARD GUIDES & PULLERS

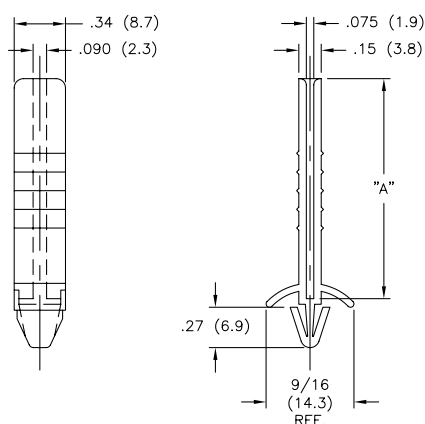
B

## CBG

### Circuit Board Guide



Accepts PCB: .062 (1.6)



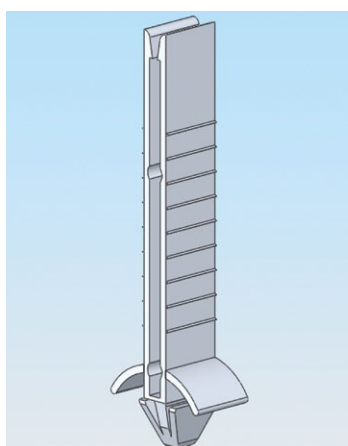
**Mounts Into Hole:** Snap-lock into rectangular hole  
 $.175 \pm .003$  (4.4 ± 0.08) X  $.310 \pm .003$  (7.9 ± 0.08)  
**Mounts Into Panel:** .030 - .070 (0.8 - 1.8)

Standard Pack: 100 per bag

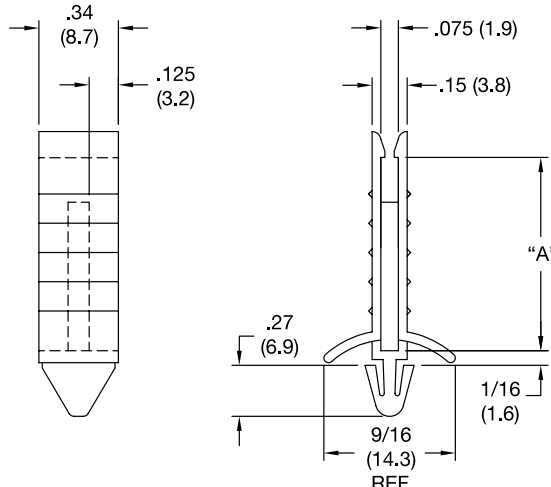
| Mat'l: Nylon 6/6, RMS-01*<br>Color: Natural                                         | "A" ± .015 (±0.4) |
|-------------------------------------------------------------------------------------|-------------------|
| CBG-1-01                                                                            | 1.0 (25.4)        |
| CBG-1.5-01                                                                          | 1.5 (38.1)        |
| CBG-2-01                                                                            | 2.0 (50.8)        |
| CBG-3-01                                                                            | 3.0 (76.2)        |
| *Available in UL94 V0 material by special order.<br>To order, replace -01 with -19. |                   |

## LCBG

### Locking Circuit Board Guide



Accepts PCB: .062 (1.6)



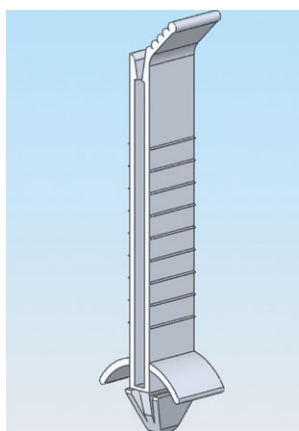
**Mounts Into Hole:** Snap-lock into rectangular hole  
 $.175 \pm .003$  (4.45 ± 0.08) X  $.310 \pm .003$  (7.87 ± 0.08)  
**Mounts Into Panel:** .030 - .070 (0.76 - 1.78)

Standard Pack: 100 per bag

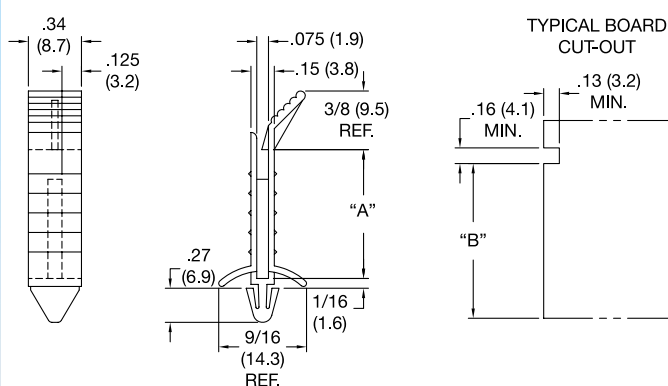
| Mat'l: Nylon 6/6, RMS-01*<br>Color: Natural                                         | "A" ± .010 (0.25) |
|-------------------------------------------------------------------------------------|-------------------|
| LCBG-1-01                                                                           | .880 (22.4)       |
| LCBG-1.5-01                                                                         | 1.375 (34.9)      |
| LCBG-2-01                                                                           | 1.870 (47.5)      |
| LCBG-3-01                                                                           | 2.875 (73)        |
| *Available in UL94 V0 material by special order.<br>To order, replace -01 with -19. |                   |

## LCBG-T

### Locking Circuit Board Guide



Accepts PCB: .062 (1.6)



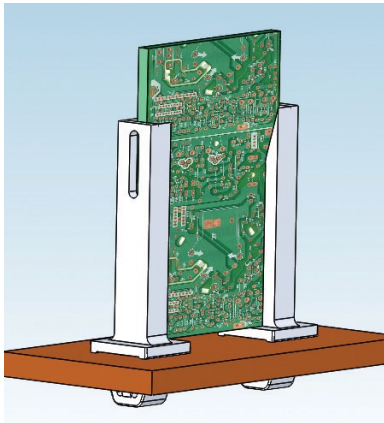
**Mounts Into Hole:** Snap-lock into rectangular hole  
 $.175 \pm .003$  (4.45 ± 0.08) X  $.310 \pm .003$  (7.87 ± 0.08)  
**Mounts Into Panel:** .030 - .070 (0.76 - 1.78)

Standard Pack: 100 per bag

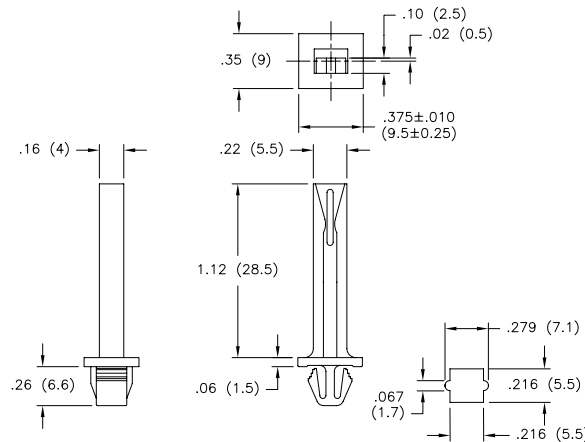
| Mat'l: Nylon 6/6, RMS-01*<br>Color: Natural                                                        | "A"          | "B"          |
|----------------------------------------------------------------------------------------------------|--------------|--------------|
| LCBG-1T-01                                                                                         | .880 (22.4)  | .865 (22)    |
| LCBG-1.5T-01                                                                                       | 1.375 (34.9) | 1.360 (34.5) |
| LCBG-2T-01                                                                                         | 1.870 (47.5) | 1.855 (47.1) |
| LCBG-3T-01                                                                                         | 2.875 (73)   | 2.860 (72.6) |
| *Parts are available in UL94 V0 material by special order only.<br>To order, replace -01 with -19. |              |              |

## VMCGE-30M-01

### Vertical Mount Guide



Accepts PCB: .062 (1.6)



Mounts Into Hole: Snap-lock into above dimensions ±.003 (0.08)

Mounts Into Panel: .047 - .071 (1.2 - 1.8)

Standard Pack: 1,000 per bag

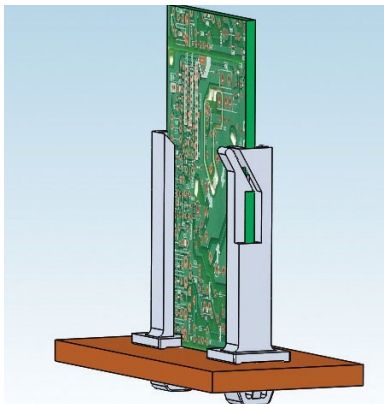
Mat'l: Nylon  
6/6, RMS-01\*  
Color: Natural

\*Available in UL94 V0 material  
by special order.  
To order, replace -01 with -19.

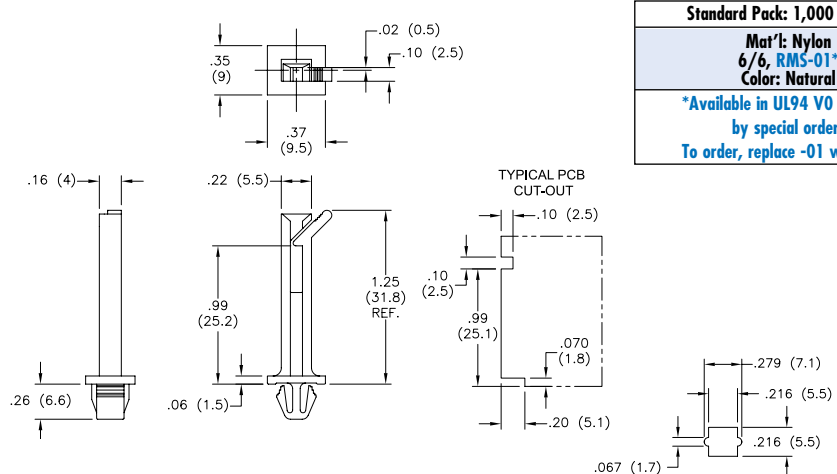
B

## VMCGLE-31M-01

### Vertical Mount Guide Latched



Accepts PCB: .062 (1.6)



Mounts Into Hole: Snap-lock into dimensions above, ±.003 (0.08)

Mounts Into Panel: .047 - .071 (1.2 - 1.8)

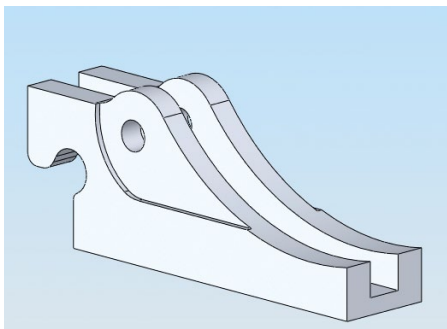
Standard Pack: 1,000 per bag

Mat'l: Nylon  
6/6, RMS-01\*  
Color: Natural

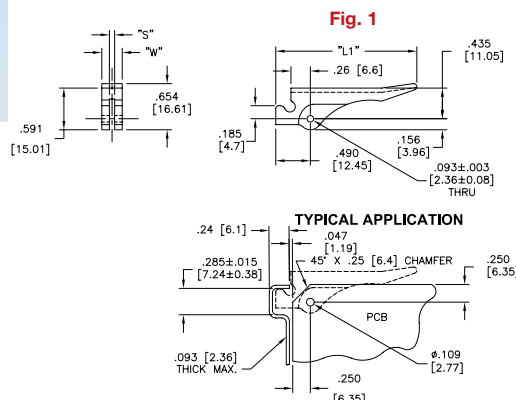
\*Available in UL94 V0 material  
by special order.  
To order, replace -01 with -19.

## R1107

### Insertor/Extractor



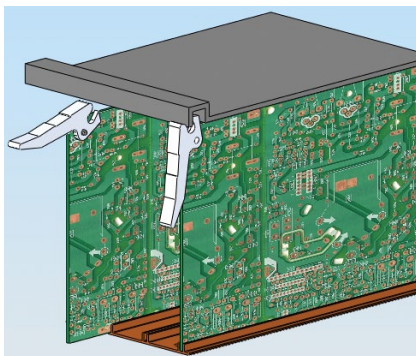
| Mat'l: UL94 V0 Glass Filled Nylon 11, RMS-222 |            |           |            |            | Color: Natural |     |                                  |
|-----------------------------------------------|------------|-----------|------------|------------|----------------|-----|----------------------------------|
| Standard Pack: 100 per bag                    |            |           |            |            |                |     |                                  |
| Part No.                                      | "S"        | "W"       | "L1"       | "L2"       | PCB Thickness  | Fig | Roll Pin (RRP) Supplied, RMS-224 |
| R1107-062                                     | .075 (1.9) | .29 (7.4) | 2.0 (50.8) | -          | .062 (1.6)     | 1   | RRP-250                          |
| R11073-062                                    |            | .35 (8.9) |            |            | .093 (2.4)     |     | RRP-312                          |
| R11073-093                                    |            |           |            |            |                |     | .100 (2.5)                       |
| R110710-062                                   | .075 (1.9) | .29 (7.4) | -          | 1.5 (38.1) | .062 (1.6)     | 2   | RRP-250                          |
| R1107310-093                                  | .100 (2.5) | .35 (8.9) |            |            | .093 (2.4)     |     | RRP-312                          |



# CARD GUIDES & PULLERS

## R1001/R1002/R1209

### Insert/Extractor



| Material: UL94 V2 Nylon 6/6, RMS-48, Color: Natural |                            |               |      |          |
|-----------------------------------------------------|----------------------------|---------------|------|----------|
| Part No.                                            | Standard Pack: 100 per bag |               |      |          |
|                                                     | "S"                        | PCB Thickness | Fig. | Roll Pin |
| R1001-062                                           | .075 (1.9)                 | .062 (1.6)    | 1    | RRP-250  |
| R1002-093                                           | .100 (2.5)                 | .093 (2.4)    |      |          |
| R1209-062                                           | .075 (1.9)                 | .062 (1.6)    | 2    | RRP-375  |
| R1209-093                                           | .100 (2.5)                 | .093 (2.4)    |      |          |

Fig. 1

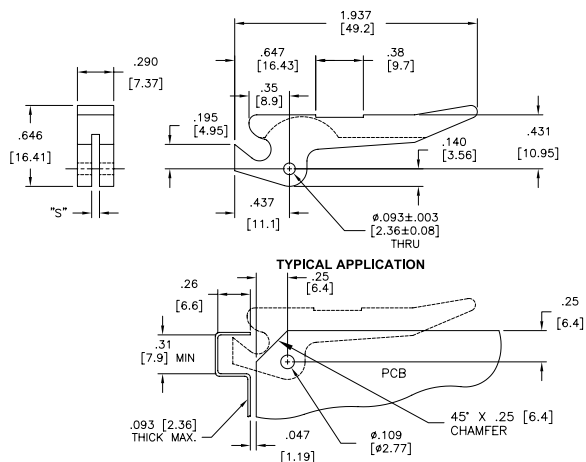
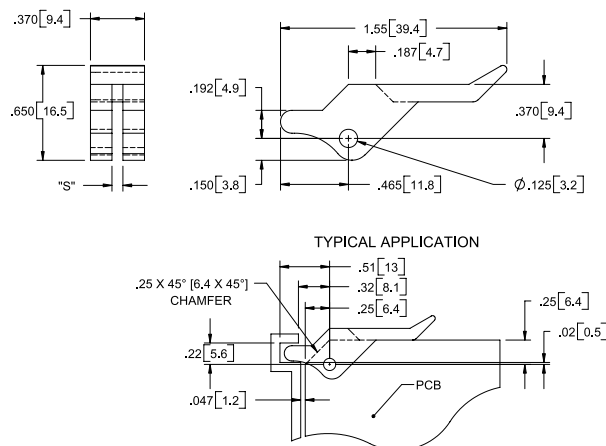
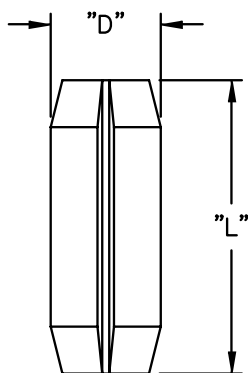
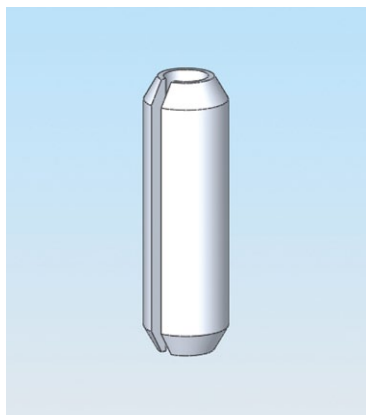


Fig. 2

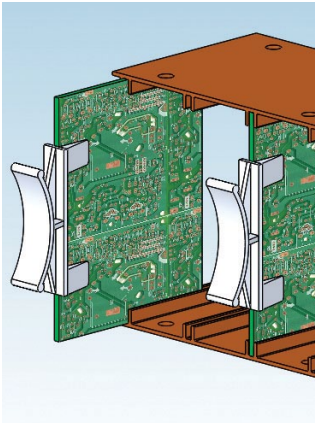


## RRP Round Roll Pins

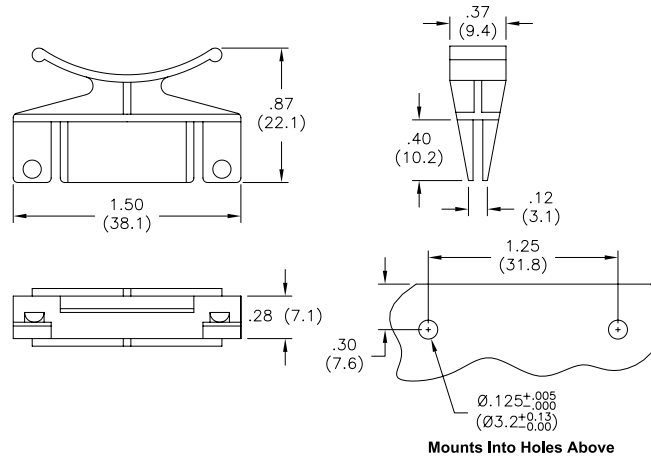


| Mat'l: 302 Stainless Steel, RMS-320                                       |              | Standard Pack: 100 per bag |
|---------------------------------------------------------------------------|--------------|----------------------------|
| Part No.                                                                  | "D"          | "L"                        |
| RRP-250                                                                   | .093 (2.4)   | .250 (6.4)                 |
| RRP-312                                                                   |              | .312 (8)                   |
| RRP-375                                                                   | .125 (3.2)   | .375 (9.5)                 |
| Roll Pins for use with the following card ejectors, inserters/extractors: |              |                            |
| RRP-250                                                                   | RRP-312      | RRP-375                    |
| RCP-06                                                                    | RCP-46       | R1209-062                  |
| RCP-09                                                                    | RCP-56       | R1209-093                  |
| RCP-26                                                                    | R11073-062   |                            |
| RCP-36                                                                    | R11073-093   |                            |
| RCP-66                                                                    | R11073-125   |                            |
| RCP-86                                                                    | R1107310-062 |                            |
| RCP-89                                                                    | R1107310-093 |                            |
| R1001-062                                                                 | R1107310-125 |                            |
| R1002-093                                                                 |              |                            |
| R1007-062                                                                 |              |                            |
| R110710-062                                                               |              |                            |

## CCP-1-01 Circuit Board Puller



Mounts Into PCB: Snap-fit onto .062 (1.6)

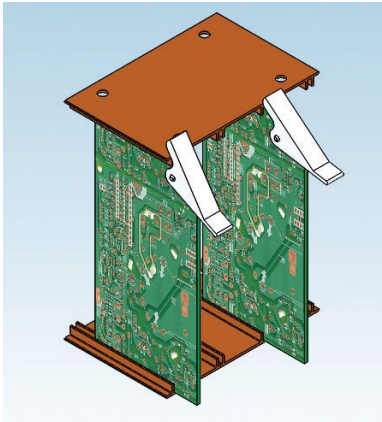


Standard Pack: 500 per bag

Mat'l: Nylon  
6/6, RMS-01\*  
Color: Natural

\*Available in UL94 V0 material  
by special order.  
To order, replace -01 with -19.

## RCP Card Ejector



All RCP Series Parts  
Mount Into Hole Below  
See Table for Panel  
Thicknesses Accepted

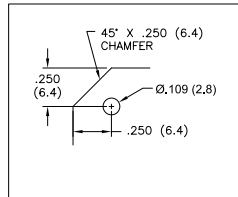


Fig. 1

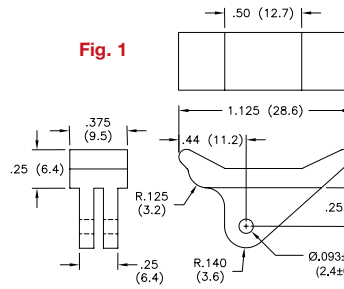


Fig. 2

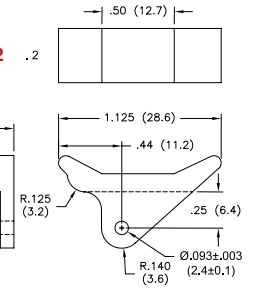


Fig. 3

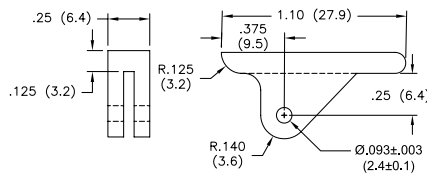


Fig. 4

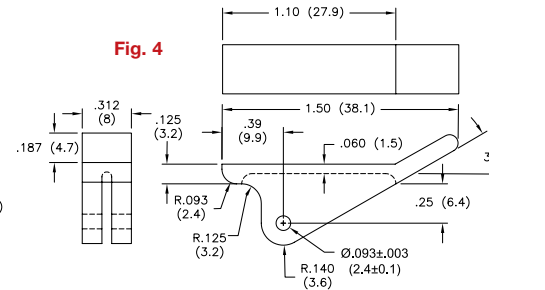


Fig. 5

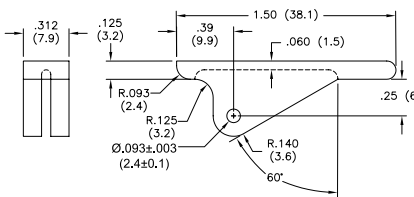


Fig. 6

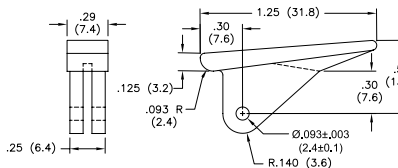
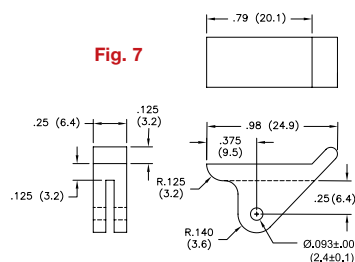


Fig. 7



Mat'l: UL94 V2 Nylon 6/6, RMS-48 Color: White

Standard Pack: 500 per bag

| Part No. | Card Thickness | Fig. | Roll Pin (RRP)<br>Supplied, RMS-224 |
|----------|----------------|------|-------------------------------------|
| RCP-06   | .062 (1.6)     | 1    | RRP-250                             |
| RCP-09   | .093 (2.4)     | 2    |                                     |
| RCP-26   | .062 (1.6)     | 3    |                                     |
| RCP-36   |                | 4    |                                     |
| RCP-46   |                | 5    | RRP-312                             |
| RCP-56   |                | 6    |                                     |
| RCP-66   | .093 (2.4)     | 7    | RRP-250                             |
| RCP-86   |                |      |                                     |
| RCP-89   |                |      |                                     |

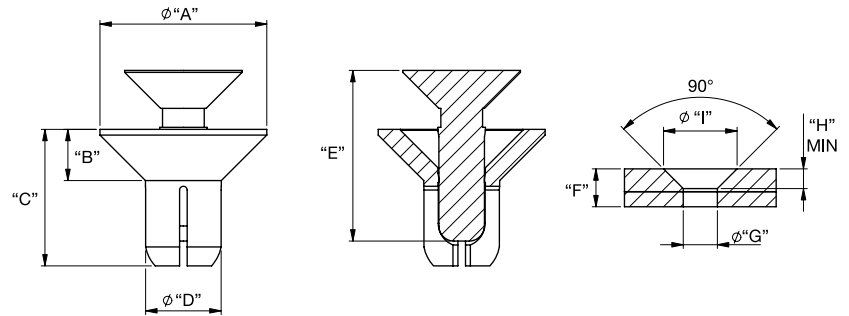
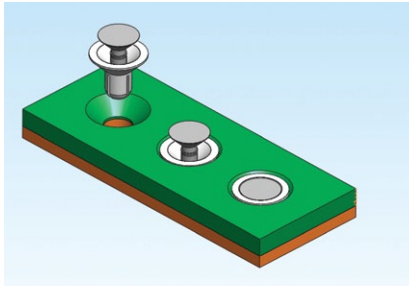


# RIVETS, SCREWS, WASHERS & NUTS

## SRCS

### Countersunk Snap Rivets

**NEW**



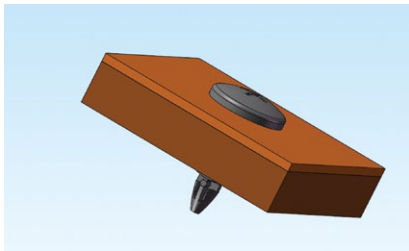
| Material: UL94 V2 Nylon 6, RMS-52 |              |           |           |           |         | Standard Pack: 1,000 per bag |                             |                   |           |            |
|-----------------------------------|--------------|-----------|-----------|-----------|---------|------------------------------|-----------------------------|-------------------|-----------|------------|
| Part No.                          |              | "A"       | "B"       | "C"       | "D"     | "E"                          | Total Holding Thickness "F" | Hole Dia. "G"     | "H"       | "I"        |
| Color: Black                      | Color: White |           |           |           |         |                              |                             |                   |           |            |
| SRCS-4060B                        | SRCS-4060W   | .35 (8.8) | .11 (2.7) | .24 (6)   | .16 (4) | .28 (7.1)                    | .14-.18 (3.5-4.5)           | .16-.17 (4.1-4.2) | .10 (2.6) | .37 (9.4)  |
| SRCS-4070B                        | SRCS-4070W   |           |           | .28 (7.2) |         | .35 (9)                      | .18-.22 (4.5-5.5)           |                   |           |            |
| SRCS-4080B                        | SRCS-4080W   |           |           | .32 (8)   |         | .43 (11)                     | .22-.26 (5.5-6.5)           |                   |           |            |
| SRCS-4090B                        | SRCS-4090W   |           |           | .35 (9)   |         |                              | .26-.30 (6.5-7.5)           |                   |           |            |
| SRCS-4100B                        | SRCS-4100W   |           |           | .39 (10)  |         |                              | .30-.34 (7.5-8.5)           |                   |           |            |
| SRCS-5065B                        | SRCS-5065W   | .39 (9.8) |           | .26 (6.5) | .20 (5) | .35 (8.5)                    | .14-.18 (3.5-4.5)           | .20-.21 (5.1-5.2) |           | .41 (10.4) |

Accommodates countersunk hole specification DIN ISO 7721

## BPFR

### Removable Barbed Fastener

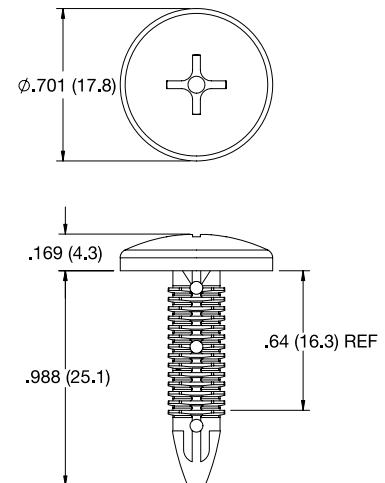
**NEW**



#### Feature

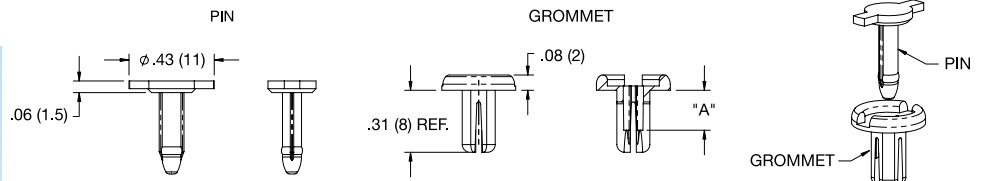
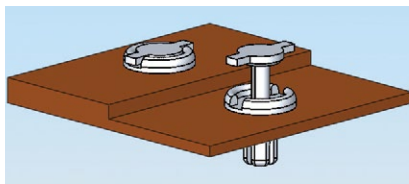
- Phillips head screwdriver required to remove from threaded hole

| Mat'l: UL94 V0 Nylon 6/6, RMS-19 Color: Black |               | Standard Pack: 1000 per bag |                         |
|-----------------------------------------------|---------------|-----------------------------|-------------------------|
| Part No.                                      | Threaded Hole | Non-Threaded Hole Dia       | Minimum Panel Thickness |
| BPFR-1                                        | 5/16 (M8)     | .276 (7)                    | .236 (6)                |



## RRR

### Removable Rivet



| Mat'l: Nylon 66/6, RMS-103 Color: Black |                            | Standard Pack: 1,000 per bag |           |
|-----------------------------------------|----------------------------|------------------------------|-----------|
| Part No.                                | Hole Size                  | Panel Thickness              | "A" Ref.  |
| RRR-1                                   | .188-.208 (4.76-5.28) Dia. | .059-.138 (1.5-3.5)          | .14 (3.6) |
| RRR-2                                   | or .177 (4.5) Min. Square  | .138-.217 (3.5-5.5)          | .17 (4.4) |

Pin and Grommet are supplied unassembled

# RIVETS, SCREWS, WASHERS & NUTS

## SR/SRVO Snap Rivets

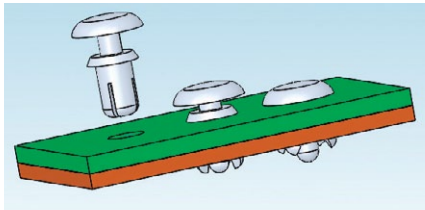


Fig. 1

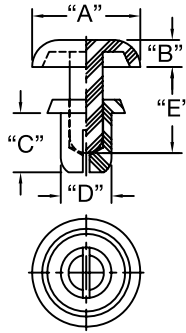
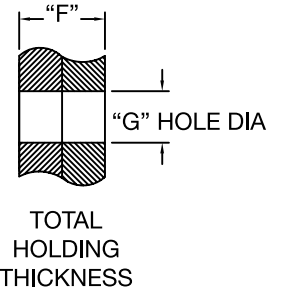
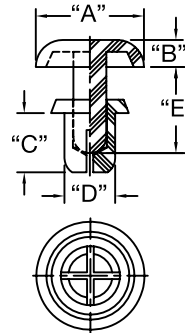


Fig. 2



| Mat'l: UL94 V2 Nylon 6, RMS-52                                                                      |              | Mat'l: UL94 V0 Nylon 66/6, RMS-103 | Standard Pack: 1,000 per bag |                               |                             |            |            |            |            |                       |           |
|-----------------------------------------------------------------------------------------------------|--------------|------------------------------------|------------------------------|-------------------------------|-----------------------------|------------|------------|------------|------------|-----------------------|-----------|
| Color: Black                                                                                        | Color: White | Color: Black                       | Hole Dia. "G"                | Extraction Force lb.(kg) Typ. | Total Holding Thickness "F" | "A" Dia.   | "B"        | "C"        | "D" Dia.   | "E"                   | Fig. No.  |
| SR-2024B                                                                                            | SR-2024W     | SRVO-2024B                         | .083 - .087<br>(2.1 - 2.2)   | 6.6 (3)                       | .024 - .047 (0.6 - 1.2)     | .165 (4.2) | .047 (1.2) | .09 (2.4)  | .079 (2)   | .11 (2.8)             | 1         |
| SR-2032B                                                                                            | SR-2032W     | SRVO-2032B                         |                              |                               | .051 - .079 (1.3 - 2)       |            |            | .13 (3.2)  |            | .15 (3.8)             |           |
| SR-2040B                                                                                            | SR-2040W     | SRVO-2040B                         |                              |                               | .083 - .110 (2.1 - 2.8)     |            |            | .16 (4)    |            | .22 (5.5)             |           |
| SR-2048B                                                                                            | SR-2048W     | SRVO-2048B                         |                              |                               | .114 - .142 (2.9 - 3.6)     |            |            | .19 (4.8)  |            | .22 (5.5)             |           |
| SR-2056B                                                                                            | SR-2056W     | SRVO-2056B                         |                              |                               | .146 - .173 (3.7 - 4.4)     |            |            | .22 (5.6)  |            | .28 (7.2)             |           |
| SR-2064B                                                                                            | SR-2064W     | SRVO-2064B                         |                              |                               | .173 - .197 (4.4 - 5)       |            | .25 (6.4)  | .28 (7.1)  |            |                       |           |
| SR-2632B                                                                                            | SR-2632W     | SRVO-2632B                         | .106 - .110<br>(2.7 - 2.8)   | 11.0 (5)                      | .039 - .079 (1 - 2)         | .197 (5)   | .055 (1.4) | .13 (3.2)  | .106 (2.6) | .18 (4.5)             |           |
| SR-2642B                                                                                            | SR-2642W     | SRVO-2642B                         |                              |                               | .079 - .118 (2 - 3)         |            |            | .17 (4.2)  |            | .18 (4.5)             |           |
| SR-2648B                                                                                            | SR-2648W     | SRVO-2648B                         |                              |                               | .106 - .142 (2.7 - 3.6)     |            |            | .19 (4.8)  |            | .24 (6.1)             |           |
| SR-2655B                                                                                            | SR-2655W     | SRVO-2655B                         |                              |                               | .134 - .169 (3.4 - 4.3)     |            |            | .22 (5.6)  |            | .24 (6.1)             |           |
| SR-2664B                                                                                            | SR-2664W     | SRVO-2664B                         |                              |                               | .169 - .205 (4.3 - 5.2)     |            |            | .25 (6.4)  |            | .31 (7.8)             |           |
| SR-2672B                                                                                            | SR-2672W     | SRVO-2672B                         |                              |                               | .201 - .236 (5.1 - 6)       |            | .28 (7.2)  | .31 (7.8)  |            |                       |           |
| SR-3035B                                                                                            | SR-3035W     | SRVO-3035B                         |                              |                               | .039 - .079 (1 - 2)         | .252 (6.4) | .063 (1.6) | .14 (3.5)  | .118 (3)   | .20 (5.1)             |           |
| SR-3045B                                                                                            | SR-3045W     | SRVO-3045B                         |                              |                               | .079 - .118 (2 - 3)         |            |            | .18 (4.5)  |            | .24 (6.1)             |           |
| SR-3055B                                                                                            | SR-3055W     | SRVO-3055B                         |                              |                               | .118 - .158 (3 - 4)         |            |            | .22 (5.6)  |            | .24 (6.1)             |           |
| SR-3065B                                                                                            | SR-3065W     | SRVO-3065B                         |                              |                               | .158 - .197 (4 - 5)         |            |            | .26 (6.5)  |            | .28 (7.1)             |           |
| SR-3075B                                                                                            | SR-3075W     | SRVO-3075B                         |                              |                               | .197 - .236 (5 - 6)         |            |            | .30 (7.5)  |            | .35 (9)               |           |
| SR-3080B                                                                                            | SR-3080W     | SRVO-3080B                         |                              |                               | .217 - .256 (5.5 - 6.5)     |            |            | .32 (8)    |            | .35 (9)               |           |
| SR-3090B                                                                                            | SR-3090W     | SRVO-3090B                         |                              |                               | .256 - .295 (6.5 - 7.5)     |            |            | .35 (9)    |            | .43 (11)              |           |
| SR-3100B                                                                                            | SR-3100W     | SRVO-3100B                         |                              |                               | .295 - .335 (7.5 - 8.5)     |            |            | .39 (10)   |            | .43 (11)              |           |
| SR-3535B                                                                                            | SR-3535W     | SRVO-3535B                         | .122 - .126<br>(3.1 - 3.2)   | 17.6 (8)                      | .047 - .083 (1.2 - 2.1)     | .252 (6.4) | .063 (1.6) | .14 (3.5)  | .138 (3.5) | .20 (5.1)             |           |
| SR-3545B                                                                                            | SR-3545W     | SRVO-3545B                         |                              |                               | .083 - .118 (2.1 - 3)       |            |            | .18 (4.5)  |            | .24 (6.1)             |           |
| SR-3550B                                                                                            | SR-3550W     | SRVO-3550B                         |                              |                               | .106 - .142 (2.7 - 3.6)     |            |            | .20 (5)    |            | .24 (6.1)             |           |
| SR-3555B                                                                                            | SR-3555W     | SRVO-3555B                         |                              |                               | .118 - .158 (3 - 4)         |            |            | .22 (5.6)  |            | .28 (7.1)             |           |
| SR-3560B                                                                                            | SR-3560W     | SRVO-3560B                         |                              |                               | .146 - .181 (3.7 - 4.6)     |            |            | .24 (6)    |            | .28 (7.1)             |           |
| SR-3570B                                                                                            | SR-3570W     | SRVO-3570B                         |                              |                               | .177 - .217 (4.5 - 5.5)     |            |            | .28 (7.2)  |            | .35 (9)               |           |
| SR-3580B                                                                                            | SR-3580W     | SRVO-3580B                         |                              |                               | .217 - .256 (5.5 - 6.5)     |            |            | .32 (8)    |            | .36 (9.1)             |           |
| SR-4050B                                                                                            | SR-4050W     | SRVO-4050B                         | .142 - .146<br>(3.6 - 3.7)   | 26.4 (12)                     | .098 - .138 (2.5 - 3.5)     | .252 (6.4) | .063 (1.6) | .20 (5)    | .138 (3.5) | .28 (7.1)             |           |
| SR-4060B                                                                                            | SR-4060W     | SRVO-4060B                         |                              |                               | .138 - .177 (3.5 - 4.5)     |            |            | .24 (6)    |            | .28 (7.1)             |           |
| SR-4070B                                                                                            | SR-4070W     | SRVO-4070B                         |                              |                               | .177 - .217 (4.5 - 5.5)     |            |            | .28 (7.2)  |            | .35 (9)               |           |
| SR-4080B                                                                                            | SR-4080W     | SRVO-4080B                         |                              |                               | .217 - .256 (5.5 - 6.5)     |            |            | .32 (8)    |            | .35 (9)               |           |
| SR-4090B                                                                                            | SR-4090W     | SRVO-4090B                         |                              |                               | .256 - .295 (6.5 - 7.5)     |            |            | .35 (9)    |            | .43 (11)              |           |
| SR-4100B                                                                                            | SR-4100W     | SRVO-4100B                         | .161 - .165<br>(4.1 - 4.2)   | 44.0 (20)                     | .295 - .335 (7.5 - 8.5)     | .315 (8)   | .071 (1.8) | .39 (10)   | .157 (4)   | .43 (11)              |           |
| SR-4120B                                                                                            | SR-4120W     | SRVO-4120B                         |                              |                               | .354 - .413 (9 - 10.5)      |            |            | .47 (12)   |            | .55 (14)              |           |
| SR-5045B                                                                                            | SR-5045W     | SRVO-5045B                         |                              |                               | .059 - .098 (1.5 - 2.5)     |            |            | .18 (4.5)  |            | .26 (6.5)             |           |
| SR-5055B                                                                                            | SR-5055W     | SRVO-5055B                         |                              |                               | .098 - .138 (2.5 - 3.5)     |            |            | .22 (5.6)  |            | .26 (6.5)             |           |
| SR-5065B                                                                                            | SR-5065W     | SRVO-5065B                         |                              |                               | .138 - .177 (3.5 - 4.5)     |            |            | .26 (6.5)  |            | .34 (8.5)             |           |
| SR-5075B                                                                                            | SR-5075W     | SRVO-5075B                         | .201 - .205<br>(5.1 - 5.2)   | 55.0 (25)                     | .177 - .217 (4.5 - 5.5)     | .354 (9)   | .087 (2.2) | .30 (7.5)  | .197 (5)   | .34 (8.5)             |           |
| SR-5085B                                                                                            | SR-5085W     | SRVO-5085B                         |                              |                               | .217 - .256 (5.5 - 6.5)     |            |            | .34 (8.5)  |            | .41 (10.5)            |           |
| SR-5095B                                                                                            | SR-5095W     | SRVO-5095B                         |                              |                               | .256 - .295 (6.5 - 7.5)     |            |            | .37 (9.5)  |            | .41 (10.5)            |           |
| SR-5105B                                                                                            | SR-5105W     | SRVO-5105B                         |                              |                               | .295 - .335 (7.5 - 8.5)     |            |            | .41 (10.5) |            | .47 (12)              |           |
| SR-6060B                                                                                            | SR-6060W     | SRVO-6060B                         |                              |                               | .240 - .244<br>(6.1 - 6.2)  |            |            | 66.0 (30)  |            | .098 - .158 (2.5 - 4) | .472 (12) |
| SR-6080B                                                                                            | SR-6080W     | SRVO-6080B                         | .138 - .217 (3.5 - 5.5)      | .118 (3)                      |                             | .32 (8)    | .39 (10)   |            |            |                       |           |
| Colors: Green (GN), Yellow (YL), Red (RD), Blue (BL), and Grey (GY) are available by special order. |              |                                    |                              |                               |                             |            |            |            |            |                       |           |
| Available by special order; 5,000 piece minimum.                                                    |              |                                    |                              |                               |                             |            |            |            |            |                       |           |

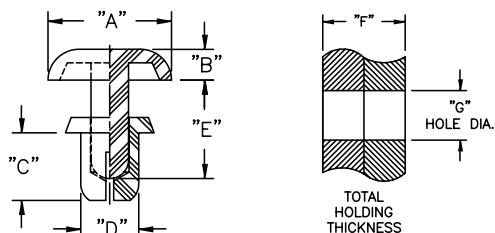
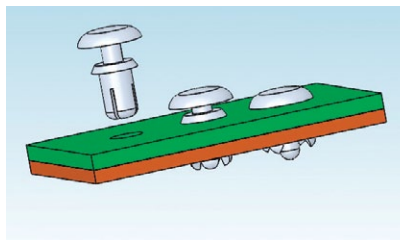
Colors: Green (GN), Yellow (YL), Red (RD), Blue (BL), and Grey (GY) are available by special order.

Available by special order; 5,000 piece minimum.

# RIVETS, SCREWS, WASHERS & NUTS

## SRHR

### Snap Rivet Heat Resistant



#### Features

- Withstands temperatures up to 266° F (130° C)

| Mat'l: UL94 V2 Nylon 4/6, RMS-109 Color: Tan |                         |                             |            | Standard Pack: 1,000 per bag |           |            |           |
|----------------------------------------------|-------------------------|-----------------------------|------------|------------------------------|-----------|------------|-----------|
| Part No.                                     | Hole Dia. "G"           | Total Holding Thickness "F" | "A" Dia.   | "B"                          | "C"       | "D" Dia.   | "E"       |
| SRHR-3035                                    | .122 - .126 (3.1 - 3.2) | .039 - .079 (1 - 2)         | .252 (6.4) | .063 (1.6)                   | .14 (3.5) | .118 (3)   | .20 (5.1) |
| SRHR-3045                                    |                         | .079 - .118 (2 - 3)         |            |                              | .18 (4.5) |            | .24 (6.1) |
| SRHR-3055                                    |                         | .118 - .157 (3 - 4)         |            |                              | .22 (5.6) |            | .24 (6.1) |
| SRHR-3065                                    |                         | .157 - .197 (4 - 5)         |            |                              | .26 (6.5) |            | .28 (7.1) |
| SRHR-3080                                    |                         | .197 - .256 (5 - 6.5)       |            |                              | .31 (8)   |            | .35 (9)   |
| SRHR-3535                                    | .142 - .146 (3.6 - 3.7) | .047 - .083 (1.2 - 2.1)     | .252 (6.4) | .063 (1.6)                   | .14 (3.5) | .138 (3.5) | .20 (5.1) |
| SRHR-3545                                    |                         | .087 - .122 (2.2 - 3.1)     |            |                              | .18 (4.5) |            | .24 (6.1) |
| SRHR-3555                                    |                         | .118 - .157 (3 - 4)         |            |                              | .22 (5.6) |            | .28 (7.1) |
| SRHR-4050                                    |                         | .098 - .138 (2.5 - 3.5)     |            |                              | .20 (5)   |            | .28 (7.1) |
| SRHR-4060                                    |                         | .138 - .177 (3.5 - 4.5)     |            |                              | .24 (6)   |            | .28 (7.1) |
| SRHR-4070                                    | .161 - 1.65 (4.1 - 4.2) | .177 - .217 (4.5 - 5.5)     | .315 (8)   | .071 (8.1)                   | .28 (7.2) | .157 (4)   | .35 (9)   |
| SRHR-4080                                    |                         | .218 - .256 (5.5 - 6.5)     |            |                              | .32 (8)   |            | .35 (9)   |
| SRHR-4100                                    |                         | .295 - .335 (7.5 - 8.5)     |            |                              | .39 (10)  |            | .43 (11)  |

## SRP

### Snap Rivet "P" Type

Fig. 1

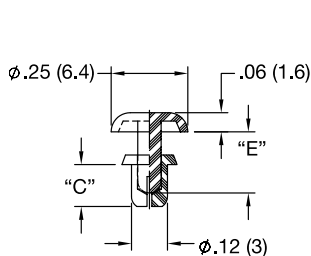
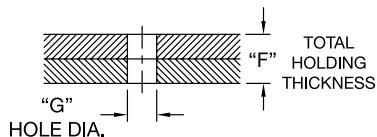
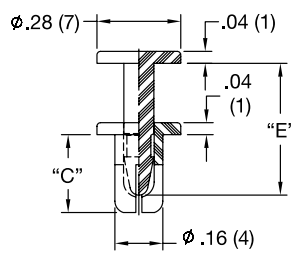


Fig. 2



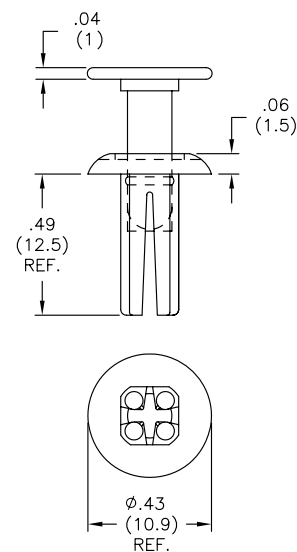
#### Features

- Withstands temperatures up to 311° F (155° C).

| Mat'l: UL94 V1 Polysulfone, RMS-51 |                       |                             | Color: Black |           |        |
|------------------------------------|-----------------------|-----------------------------|--------------|-----------|--------|
| Standard Pack: 1,000 per bag       |                       |                             |              |           |        |
| Part No.                           | Hole Dia. "G"         | Total Holding Thickness "F" | "C"          | "E"       | Fig. # |
| SRP-3045                           | .122 - .126           | .059 - .098 (1.5 - 2.5)     | .18 (4.5)    | .24 (6.1) | 1      |
| SRP-3055                           | (3.1 - 3.2)           | .098 - .138 (2.5 - 3.5)     | .22 (5.5)    |           |        |
| SRP-4065                           | .157 - .165 (4 - 4.2) | .138 - .177 (3.5 - 4.5)     | .26 (6.5)    | .43 (11)  | 2      |

## PPR-10

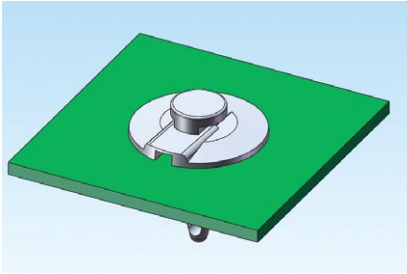
### Push Rivet



| Material: UL94 V2 Nylon 6, RMS-120 Color: Natural |                         |                                               |
|---------------------------------------------------|-------------------------|-----------------------------------------------|
| Standard Pack: 100 per bag                        |                         |                                               |
| Part No.                                          | Total Holding Thickness | Mounting Hole Options                         |
| PPR-10                                            | .140-.20 (3.56-5.08)    | .25 (6.4) Round Hole<br>.22 (5.6) Square Hole |

# RIVETS, SCREWS, WASHERS & NUTS

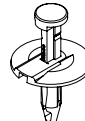
## TR Tough Snap Rivets



**NEW**



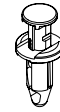
TR-1



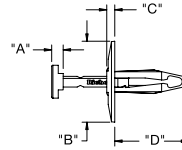
TR-2



TR-3



TR-4



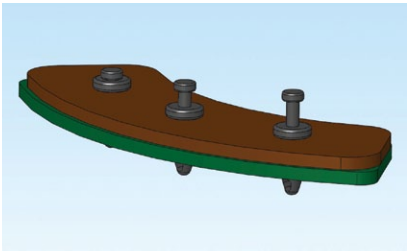
Pin Style A



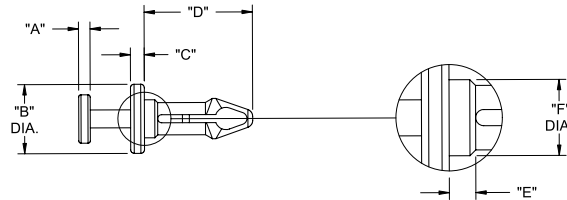
Pin Style B

| Material: UL94 HB Impact Modified Nylon 6/6, RMS-73 |                         |                         |            |             | Color: Black |             |             |                |
|-----------------------------------------------------|-------------------------|-------------------------|------------|-------------|--------------|-------------|-------------|----------------|
| Standard Pack: 1,000 per bag                        |                         |                         |            |             |              |             |             |                |
| Part No.                                            | Hole Diameter           | Panel Thickness         | "A"        | "B" Dia.    | "C"          | "D"         | No. of Legs | Pin Head Style |
| TR-1                                                | .193 - .205 (4.9 - 5.2) | .059 - .181 (1.5 - 4.6) | .100 (2.5) | .283 (7.2)  | .045 (1.1)   | .445 (11.3) | 3           | B              |
| TR-2                                                | .248 - .276 (6.3 - 7)   | .098 - .350 (2.5 - 8.9) | .140 (3.6) | .985 (25)   | .098 (2.5)   | .898 (22.8) | 2           | A              |
| TR-3                                                | .250 - .276 (6.4 - 7)   | .098 - .315 (2.5 - 8)   | .110 (2.8) | .585 (14.9) | .079 (2)     | .897 (22.8) |             |                |
| TR-4                                                | .315 - .325 (8 - 8.3)   | .118 - .315 (3 - 8)     | .091 (2.3) |             | .106 (2.7)   | .830 (21.1) |             |                |

## TRM Mini Tough Snap Rivets

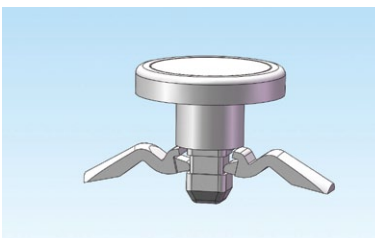


**NEW**

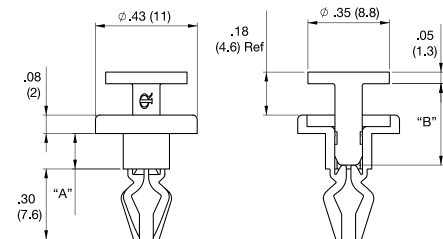


| Material: UL94 V2 Heat Stabilized Nylon 6/6, RMS-47 |                     |                     |            |             |            | Color: Black |          |          |
|-----------------------------------------------------|---------------------|---------------------|------------|-------------|------------|--------------|----------|----------|
| Standard Pack: 1,000 per bag                        |                     |                     |            |             |            |              |          |          |
| Part Number                                         | Hole Diameter       | Panel Thickness     | "A"        | "B" Dia.    | "C"        | "D"          | "E" Ref. | "F" Ref. |
| TRM-1                                               | .097-.103 (2.5-2.6) | .160-.180 (4.1-4.6) | .040 (1)   | .190 (4.8)  | 0.06 (1.5) | .345 (8.8)   | -        | -        |
| TRM-2                                               | .106-.112 (2.7-2.8) | .080-.105 (2-2.7)   | .050 (1.3) | .218 (5.5)  |            | .300 (7.6)   |          |          |
| TRM-3                                               | .122-.128 (3.1-3.3) | .105-.130 (2.7-3.3) |            |             |            | .320 (8.1)   |          |          |
| TRM-4                                               |                     | .130-.155 (3.3-3.9) |            |             |            | .345 (7.6)   |          |          |
| TRM-5                                               |                     | .155-.180 (3.9-4.6) |            |             |            | .370 (9.4)   |          |          |
| TRM-6                                               |                     | .240-.265 (6.1-6.7) |            |             |            | .455 (11.6)  |          |          |
| TRM-7                                               | .144-.154 (3.7-3.9) | .265-.290 (6.7-7.4) | .300 (7.6) | .470 (11.9) |            | .045 (1.1)   |          |          |

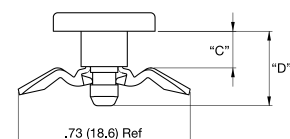
## RFL Folding Leg Rivets



**NEW**



Closed Locked Position

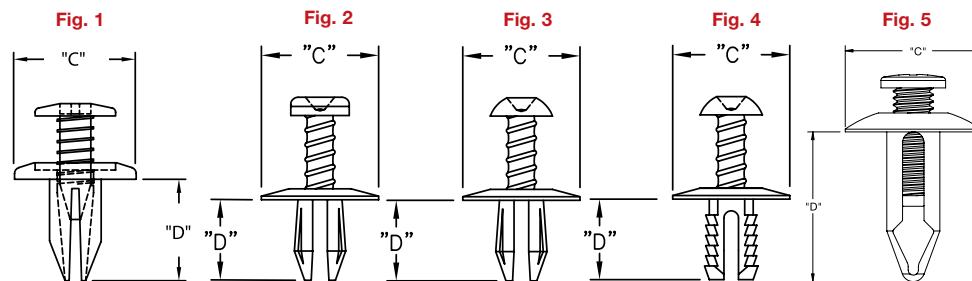
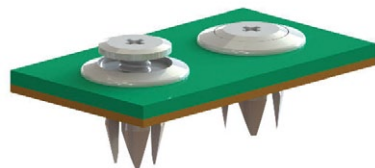


| Part No        |              | Material: UL94 V2 Nylon 6/6, RMS-01 |           |           |           |                       |                   |
|----------------|--------------|-------------------------------------|-----------|-----------|-----------|-----------------------|-------------------|
|                |              | Standard Pack: 1,000 per bag        |           |           |           |                       |                   |
| Color: Natural | Color: Black | "A"                                 | "B"       | "C"       | "D"       | Total Panel Thickness | Mounting Hole Dia |
| RFL-1          | RFL-1BK      | .12 (3)                             | .32 (8.1) | .11 (2.7) | .29 (7.4) | .11-.15 (2.85-3.85)   | .22 (5.5)         |
| RFL-2          | RFL-2BK      | .15 (3.7)                           | .35 (8.8) | .13 (3.3) | .32 (8.1) | .14-.18 (3.55-4.55)   |                   |

# RIVETS, SCREWS, WASHERS & NUTS

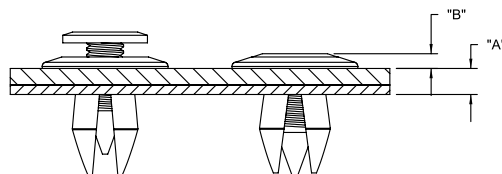
## USR

### Unscrewing Snap Rivet



#### Feature

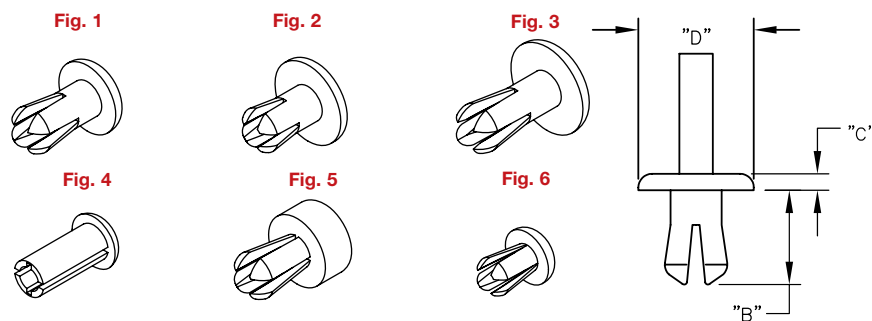
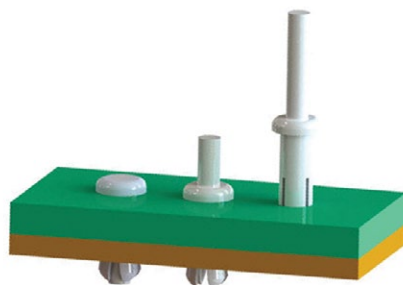
- Phillips head screwdriver required to remove from hole



| Color: Black     |            |                             |            |             |             |      |                                                                    |               |
|------------------|------------|-----------------------------|------------|-------------|-------------|------|--------------------------------------------------------------------|---------------|
| Part No.         | Hole Dia.  | "A" Total Holding Thickness | "B"        | "C" Dia.    | "D"         | Fig. | Material                                                           | Standard Pack |
| USR-64125        | .250 (6.4) | .126 - .172 (3.2 - 4.4)     | .118 (3)   | .594 (15.1) | .500 (12.7) | 1    | UL94 V2 Nylon 6, RMS-52                                            | 500 per bag   |
| USR-1131         | .197 (5)   | .059 - .236 (1.5 - 6)       | .153 (3.9) | .472 (12)   | .433 (11)   | 2    | UL94 V2 Nylon 6/6, RMS-115                                         | 1,000 per bag |
| USR-1132         | .236 (6)   | .059 - .236 (1.5 - 6)       |            | .630 (16)   |             | 3    |                                                                    |               |
| USR-1133         | .315 (8)   | .118 - .394 (3 - 10)        |            | .787 (20)   |             | 4    |                                                                    |               |
| <b>NEW</b> USR-1 | .315 (8)   | .276 - .315 (7 - 8)         | .142 (3.6) | .787 (20)   | .866 (22)   | 5    | Grommet: UL94 V2 Nylon 6, RMS-52;<br>Screw: UL94 HB Acetal, RMS-14 |               |

## PPR/PPR-T

### Push Rivet/Push Rivet Tool

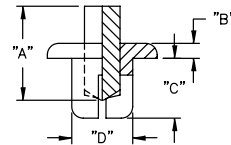
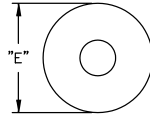
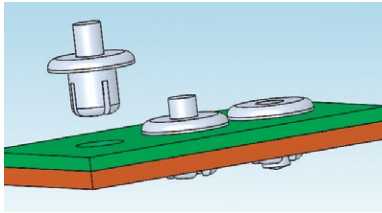


| Material: UL94 V2 Nylon 6/6, RMS-01 |              |            |                          |             | Standard Pack: 1,000 per bag |             |                   |      |  |
|-------------------------------------|--------------|------------|--------------------------|-------------|------------------------------|-------------|-------------------|------|--|
| Part No.                            |              | Hole Dia.  | Total Holding Thickness  | “B”         | “C”                          | “D” Dia.    | Installation Tool | Fig. |  |
| Color: Natural                      | Color: Black |            |                          |             |                              |             |                   |      |  |
| PPR-5                               | PPR-5B       | .189 (4.8) | .039 - .375 (1 - 9.5)    | .421 (10.7) | .063 (1.6)                   | .280 (7.1)  | PPR-T1            | 4    |  |
| PPR-93-7                            | PPR-93-7B    | .197 (5)   | .059 - .197 (1.5 - 5)    | .291 (7.4)  | .079 (2)                     |             |                   | 6    |  |
| PPR-9                               | PPR-9B       | .252 (6.4) | .059 - .252 (1.5 - 6.4)  | .366 (9.3)  | .185 (4.7)                   | .437 (11.1) | PPR-T4            | 5    |  |
| PPR-1                               | PPR-1B       | .217 (5.5) | .094 - .158 (2.4 - 4)    | .449 (11.4) | .079 (2)                     | .370 (9.4)  | PPR-T1            | 1    |  |
| -                                   | PPR-93-14B   | .197 (5)   | .118 - .276 (3 - 7)      | .433 (11)   |                              | .382 (9.7)  |                   | 6    |  |
| PPR-2                               | PPR-2B       | .189 (4.8) | .158 - .281 (4 - 7.1)    | .382 (9.7)  | .059 (1.5)                   | .429 (10.9) | PPR-T4            | 2    |  |
| PPR-4                               | PPR-4B       | .252 (6.4) | .280 - .500 (7.1 - 12.7) | .622 (15.8) | .079 (2)                     | .469 (11.9) |                   | 3    |  |
| Available by special order only     |              |            |                          |             |                              |             |                   |      |  |

Available by special order only

# RIVETS, SCREWS, WASHERS & NUTS

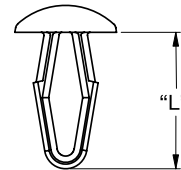
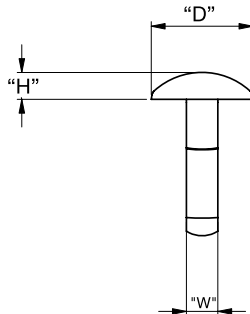
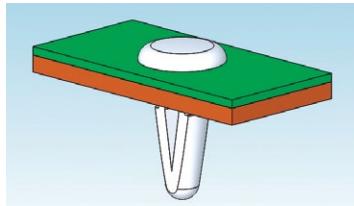
## PPR Push Rivet Blunt



| Standard Pack: 1,000 per bag                                                                         |            |                         |            |           |           | Color: Black |            |                            |
|------------------------------------------------------------------------------------------------------|------------|-------------------------|------------|-----------|-----------|--------------|------------|----------------------------|
| Part No.                                                                                             | Hole Dia.  | Total Holding Thickness | "A"        | "B"       | "C"       | "D" Dia.     | "E" Dia.   | Material                   |
| PPR-3055B                                                                                            | .122 (3.1) | .12 - .16 (3 - 4)       | .35 (8.9)  | .08 (2)   | .22 (5.6) | .118 (3)     | .23 (5.8)  | UL94 V1 Nylon 6,<br>RMS-52 |
| PPR-4050B                                                                                            | .161 (4.1) | .10 - .14 (2.5 - 3.5)   | .36 (9.2)  | .09 (2.2) | .20 (5)   | .157 (4)     | .31 (8)    |                            |
| PPR-4850B                                                                                            | .189 (4.8) | .05 - .12 (1.2 - 3)     | .41 (10.4) | .13 (3.3) | .20 (5.1) | .189 (4.8)   | .39 (9.9)  |                            |
| PPR-5060B                                                                                            | .201(5.1)  | .12 - .16 (3 - 4)       | .37 (9.4)  | .11 (2.8) | .24 (6.1) | .197 (5)     | .37 (9.4)  |                            |
| PPR-5070B                                                                                            |            | .16 - .20 (4 - 5)       | .45 (11.4) |           | .28 (7.1) |              |            |                            |
| PPR-5080B                                                                                            |            | .20 - .24 (5 - 6)       |            |           | .32 (8.1) |              |            | Polyethylene, RMS-142      |
| PPR-6060B                                                                                            | .240 (6.1) | .10 - .16 (2.5 - 4)     | .37 (9.4)  | .06 (1.5) | .24 (6.1) | .236 (6)     | .43 (10.9) |                            |
| Available in white color by special order. To order, change the B at the end of the part number to W |            |                         |            |           |           |              |            |                            |

Available in white color by special order. To order, change the B at the end of the part number to W

## DF Drive Fastener



| Color: Natural                |                                  |            |                         | Standard Pack: 1,000 per bag |            |             |            |
|-------------------------------|----------------------------------|------------|-------------------------|------------------------------|------------|-------------|------------|
| Mat'l: UL94 HB Acetal, RMS-14 | Mat'l: UL94 V0 Nylon 6/6, RMS-19 | Hole Dia.  | Total Holding Thickness | "D" Dia.                     | "H"        | "L" Ref.    | "W" Ref.   |
| DF-137-010                    | DFVO-137-010                     | .126 (3.2) | .039 - .177 (1 - 4.5)   | .315 (8)                     | .059 (1.5) | .512 (13)   | .106 (2.7) |
| DF-137-020                    | DFVO-137-020                     | .153 (3.9) | .039 - .197 (1 - 5)     | .354 (9)                     | .063 (1.6) | .551 (14)   | .116 (2.9) |
| DF-137-030                    | DFVO-137-030                     | .185 (4.7) | .039 - .216 (1 - 5.5)   | .394 (10)                    | .067 (1.7) | .590 (15)   | .134 (3.4) |
| DF-137-031                    | DFVO-137-031                     |            |                         | .433 (11)                    | .114 (2.9) |             |            |
| DF-137-040                    | DFVO-137-040                     | .252 (6.4) | .059 - .256 (1.5 - 6.5) | .472 (12)                    | .079 (2)   | .669 (17)   | .153 (3.9) |
| DF-137-050                    | DFVO-137-050                     | .307 (7.8) | .059 - .275 (1.5 - 7)   | .551 (14)                    | .087 (2.2) | .748 (19)   | .166 (4.2) |
| DF-137-060                    | DFVO-137-060                     | .216 (5.5) | .236 - .354 (6 - 9)     | .472 (12)                    | .079 (2)   | .689 (17.5) | .150 (3.8) |

Available by special order only; 5,000 piece minimum.

## MMB Mini Mounting Button

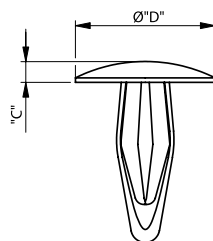
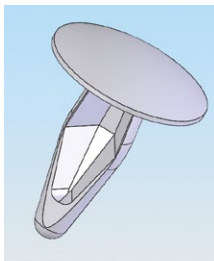


Fig. 1

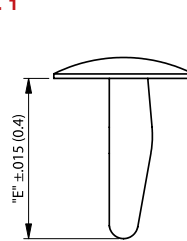
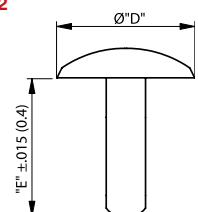
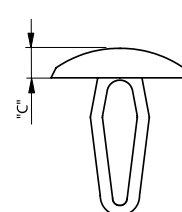


Fig. 2



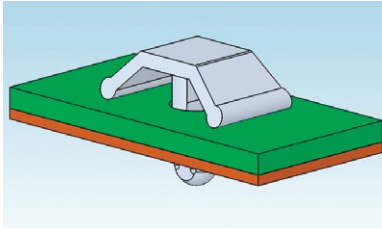
| Material: UL94 V2 Nylon 6/6, RMS-01*                                             |              |                       |                         |            |             |             |      |
|----------------------------------------------------------------------------------|--------------|-----------------------|-------------------------|------------|-------------|-------------|------|
| Standard Pack: 1,000 per bag                                                     |              |                       |                         |            |             |             |      |
| Part No.                                                                         |              | Mounting Hole Dia.    | Total Holding Thickness | “C”        | “D” Dia.    | “E”         | Fig. |
| Color: Natural                                                                   | Color: Black |                       |                         |            |             |             |      |
| MMB-125-01                                                                       | MMB-125-01BK | .123-.127 (3.10-3.22) | .08-.10 (2-2.5)         | .040 (1)   | .270 (6.9)  | .330 (8.4)  | 1    |
| MMB-136-01                                                                       | MMB-136-01BK | .131-.141 (3.32-3.58) | .12-.16 (2.9-4)         | .070 (1.7) | .410 (10.3) | .440 (11.1) |      |
| MMB-187-01                                                                       | MMB-187-01BK | .182-.192 (4.61-4.88) | .10-.16 (2.5-4)         | .090 (2.2) | .500 (12.7) | .430 (10.9) |      |
| MMB-210-01                                                                       | MMB-210-01BK | .197-.213 (5-5.4)     | .10-.16 (2.5-4)         | .118 (3)   | .551 (14)   | .551 (14)   | 2    |
| MMB-250-01                                                                       | MMB-250-01BK | .247-.253 (6.27-6.42) | .10-.22 (2.5-5.6)       | .090 (2.2) | .500 (12.7) | .640 (16.3) | 1    |
| *Available in UL94 V0 material by special order. To order, replace -01 with -19. |              |                       |                         |            |             |             |      |

\*Available in UL94 V0 material by special order. To order, replace -01 with -19.

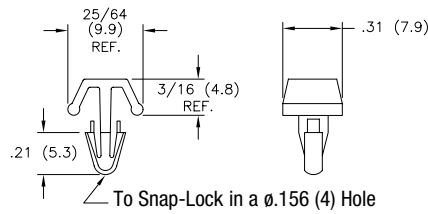


# RIVETS, SCREWS, WASHERS & NUTS

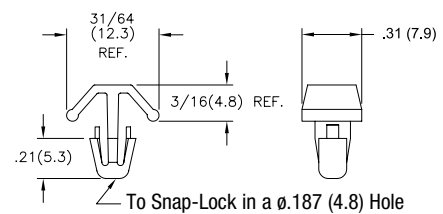
## MB Mounting Button



### MB-156



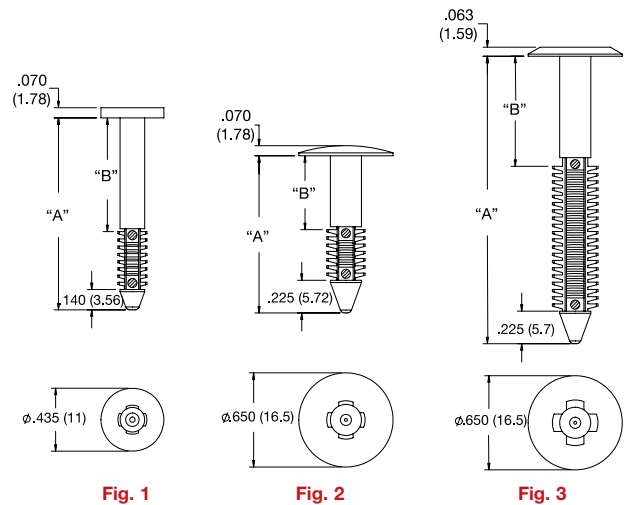
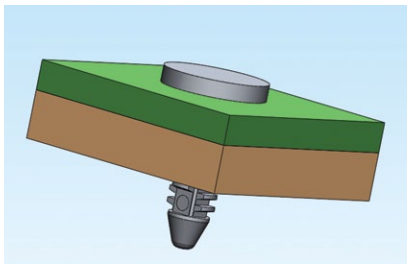
### MB-187



| Material: Nylon 6/6, RMS-01* Color: Natural |           | Standard Pack: 1,000 per bag |
|---------------------------------------------|-----------|------------------------------|
|                                             |           | Total Holding Thickness      |
| MB-1-156                                    | MB-1-187  | 1/32-3/32 (0.8-2.4)          |
| MB-3-156                                    | MB-3-187  | 3/32-5/32 (2.4-4)            |
| MB-5-156                                    | MB-5-187  | 5/32-7/32 (4-5.6)            |
| MB-7-156                                    | MB-7-187  | 7/32-9/32 (5.6-7.1)          |
| MB-9-156                                    | MB-9-187  | 9/32-11/32 (7.1-8.7)         |
| MB-11-156                                   | MB-11-187 | 11/32-13/32 (8.7-10.3)       |

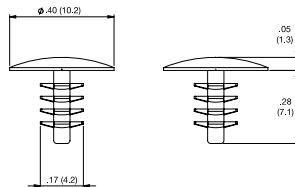
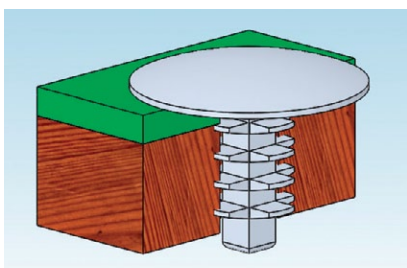
\*Available in UL94 V0 material by special order. To order, add -19 to the end of the part number.

## BHF Blind Hole Fasteners



| Material: UL94 V2 Nylon 6/6, RMS-01*                                                              |             |            |                                 | Color: Black  |      |
|---------------------------------------------------------------------------------------------------|-------------|------------|---------------------------------|---------------|------|
| Standard Pack: 1,000 per bag                                                                      |             |            |                                 |               |      |
| Part No.                                                                                          | "A"         | "B" Ref    | Suggested Total Board Thickness | Hole Diameter | Fig. |
| BHF-1                                                                                             | .56 (14.2)  | .02 (0.5)  | .035-.385 (0.9-9.8)             | .187 (4.75)   | 1    |
| BHF-2                                                                                             | .65 (16.5)  | .11 (2.8)  | .125-.475 (3.2-12.1)            |               |      |
| BHF-3                                                                                             | .95 (24.1)  | .41 (10.4) | .425-.775 (10.8-19.7)           |               |      |
| BHF-4                                                                                             | 1.33 (33.7) | .79 (19.9) | .800-1.15 (20.3-29.2)           |               |      |
| BHF-5                                                                                             | .59 (15.1)  | .02 (0.5)  | .035-.335 (0.9-8.5)             | .250 (6.35)   | 2    |
| BHF-6                                                                                             | .65 (16.6)  | .08 (2)    | .095-.395 (2.4-10)              |               |      |
| BHF-7                                                                                             | .88 (22.5)  | .31 (7.9)  | .325-.625 (8.3-15.9)            |               |      |
| BHF-8                                                                                             | 1.08 (27.6) | .51 (12.9) | .525-.825 (13.3-21)             |               |      |
| BHF-9                                                                                             | .74 (18.7)  | .06 (1.5)  | .075-.475 (1.9-12.1)            | .281 (7.14)   | 3    |
| BHF-10                                                                                            | 1.14 (28.8) | .46 (11.7) | .475-.875 (12.1-22.2)           |               |      |
| BHF-11                                                                                            | 1.28 (32.6) | .06 (1.5)  | .075-1.025 (1.9-26)             |               |      |
| BHF-12                                                                                            | 1.48 (37.7) | .26 (6.6)  | .275-1.225 (7-31.1)             |               |      |
| BHF-13                                                                                            | 1.78 (45.3) | .56 (14.2) | .575-1.525 (14.6-38.7)          |               |      |
| BHF-14                                                                                            | 2.00 (50.8) | .76 (19.3) | .775-1.725 (19.7-43.8)          |               |      |
| *Available in UL94 V0 material by special order. To order, add -V0 to the end of the part number. |             |            |                                 |               |      |
| Natural color available by special order. To order, add NT to the end of the part number.         |             |            |                                 |               |      |

## PFP-7-01 Press Fit Pin

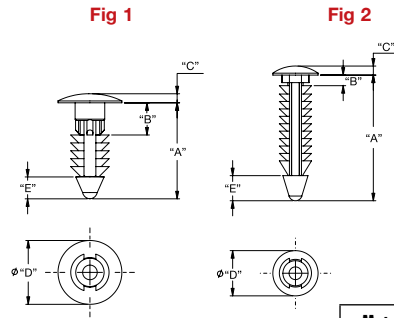
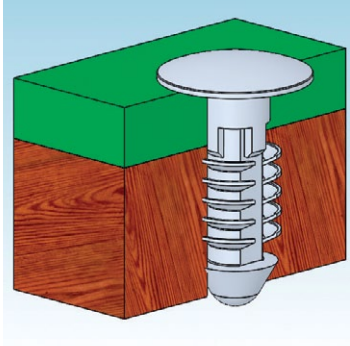


| PFP                                      | Standard Pack: 1,000 per bag |                 |
|------------------------------------------|------------------------------|-----------------|
| Mat'l: Nylon 6/6, RMS-01* Color: Natural | Hole Diameter                | Panel Thickness |
| PFP-7-01                                 | .138 ± .002 (3.5 ± 0.05)     | .25 (6.35) Min. |

\* Available in UL94 V0 material by special order. To order, change -01 to -19

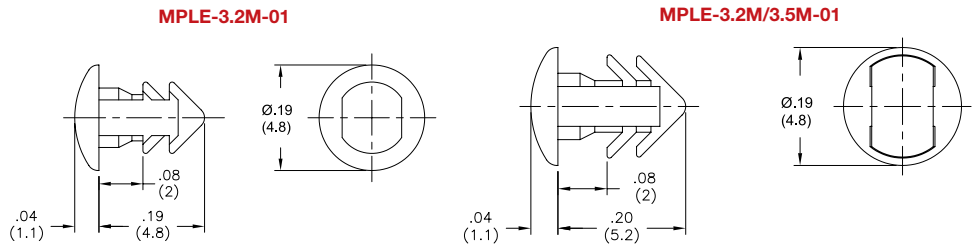
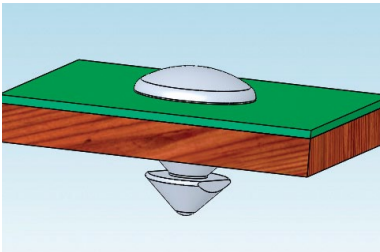
# RIVETS, SCREWS, WASHERS & NUTS

## PL Pawl Lock



| Material: Nylon 6/6, RMS-01 Color: Natural |             |            |            | Standard Pack: 1,000 per bag |            |             |      |
|--------------------------------------------|-------------|------------|------------|------------------------------|------------|-------------|------|
| Part No.                                   | "A"         | "B"        | "C"        | "D"                          | "E"        | Hole Size   | Fig. |
| PL-250-10-01                               | .606 (15.4) | .125 (3.2) | .078 (2)   | .500 (12.7)                  | .161 (4.1) | .250 (6.35) | 1    |
| PL-250-12-01                               | .751 (19.1) | .264 (6.7) |            |                              |            |             |      |
| PL-250-20-01                               | .984 (25)   | .082 (2.1) | .070 (1.8) | .354 (9)                     | .196 (5)   | .216 (5.5)  | 2    |

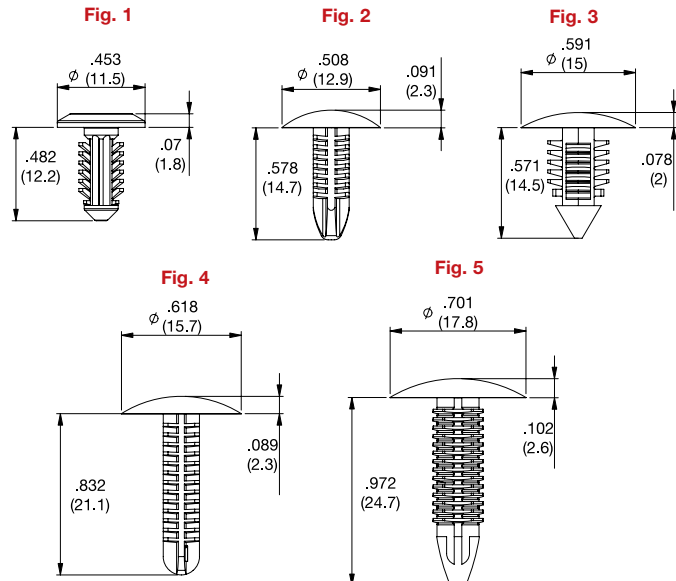
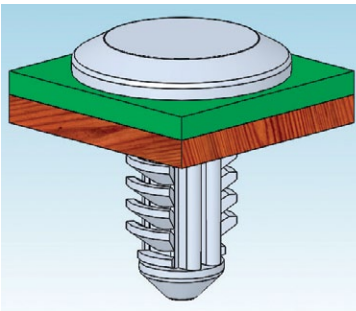
## MPLE Mini Pawl Locks



| Mat'l: UL94 V2 Nylon 6/6, RMS-01* |                         | Color: Natural          |
|-----------------------------------|-------------------------|-------------------------|
| Standard Pack: 1,000 per bag      |                         |                         |
| Part No.                          | Hole Dia.               | Total Holding Thickness |
| MPLE-3.2M-01                      | .126 (3.2)              | .073 (1.85) Max.        |
| MPLE-3.2M/3.5M-01                 | .126 - .138 (3.2 - 3.5) |                         |

\*Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19.

## BPF Barbed Push Fastener

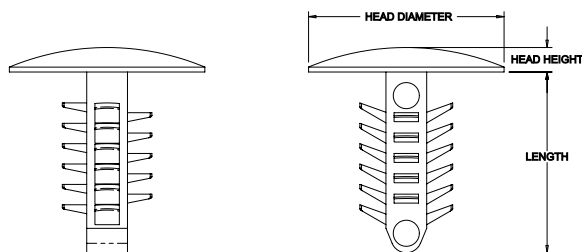
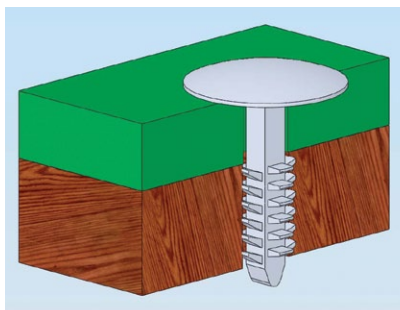


| Color: Black | Standard Pack: 1,000 per bag |               |                         |      |
|--------------|------------------------------|---------------|-------------------------|------|
| Part No.     | Material                     | Hole Diameter | Total Holding Thickness | Fig. |
| BPF-A414     | UL94 V0, RMS-19              | .185 (4.7)    | .031-.118 (0.8-3)       | 1    |
| BPF-F4410    | UL94 V2, RMS-01              | .197 (5)      | .059-.295 (1.5-7.5)     | 2    |
| BPF-F2495    | UL94 V0, RMS-19              | .276 (7)      | .125-.236 (3.2-6)       | 3    |
| BPF-F3T31    |                              | .197 (5)      | .079-.394 (2-10)        | 4    |
| BPF-F1G12    |                              | .276 (7)      | .079-.591 (2-15)        | 5    |

# RIVETS, SCREWS, WASHERS & NUTS

## RBF

### Barbed Fasteners



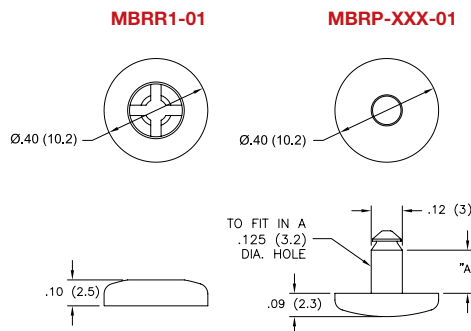
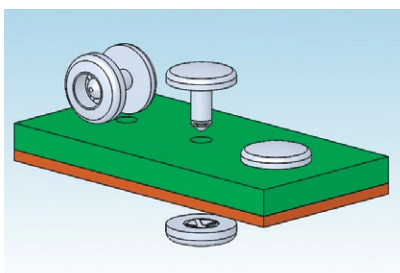
| Mat'l: UL94 V2 Nylon 6/6, RMS-01* Color: Black |               |               |                                 |             |            |
|------------------------------------------------|---------------|---------------|---------------------------------|-------------|------------|
| Standard Pack: 1,000 per bag                   |               |               |                                 |             |            |
| Part No.                                       | Hole Diameter | Head Diameter | Suggested Total Board Thickness | Head Height | Length     |
| RBF-4-8.6-8                                    | .157 (4)      | .32 (8)       | .08-.17 (2.1-4.3)               | .04 (1)     | .34 (8.6)  |
| RBF-4-11.1-8                                   |               |               | .08-.28 (2.1-7.2)               |             | .44 (11.1) |
| RBF-4-15-8                                     |               |               | .22-.42 (5.7-10.7)              |             | .59 (15)   |
| RBF-4-8.6-12                                   |               | .47 (12)      | .08-.17 (2.1-4.3)               | .06 (1.5)   | .34 (8.6)  |
| RBF-4-11.1-12                                  |               |               | .08-.28 (2.1-7.2)               |             | .44 (11.1) |
| RBF-4-15-12                                    |               |               | .22-.42 (5.7-10.7)              |             | .59 (15)   |
| RBF-4-8.6-16                                   | .188 (4.76)   | .63 (16)      | .08-.17 (2.1-4.3)               | .08 (2)     | .34 (8.6)  |
| RBF-4-11.1-16                                  |               |               | .08-.28 (2.1-7.2)               |             | .44 (11.1) |
| RBF-4-15-16                                    |               |               | .22-.42 (5.7-10.7)              |             | .59 (15)   |
| RBF-4.8-8.6-8                                  |               | .32 (8)       | .08-.17 (2.1-4.3)               | .04 (1)     | .34 (8.6)  |
| RBF-4.8-11.1-8                                 |               |               | .08-.28 (2.1-7.2)               |             | .44 (11.1) |
| RBF-4.8-15-8                                   |               |               | .22-.42 (5.7-10.7)              |             | .59 (15)   |
| RBF-4.8-8.6-12                                 | .250 (6.35)   | .47 (12)      | .08-.17 (2.1-4.3)               | .06 (1.5)   | .34 (8.6)  |
| RBF-4.8-11.1-12                                |               |               | .08-.28 (2.1-7.2)               |             | .44 (11.1) |
| RBF-4.8-15-12                                  |               |               | .22-.42 (5.7-10.7)              |             | .59 (15)   |
| RBF-4.8-8.6-16                                 |               | .63 (16)      | .08-.17 (2.1-4.3)               | .08 (2)     | .34 (8.6)  |
| RBF-4.8-11.1-16                                |               |               | .08-.28 (2.1-7.2)               |             | .44 (11.1) |
| RBF-4.8-15-16                                  |               |               | .22-.42 (5.7-10.7)              |             | .59 (15)   |
| RBF-7.1-11.1-8                                 | .281 (7.14)   | .32 (8)       | .08-.28 (2.1-7.2)               | .04 (1)     | .44 (11.1) |
| RBF-7.1-15-8                                   |               |               | .15-.42 (3.8-10.7)              |             | .59 (15)   |
| RBF-7.1-19-8                                   |               |               | .27-.56 (6.9-14.2)              |             | .75 (19)   |
| RBF-7.1-11.1-12                                |               | .47 (12)      | .08-.28 (2.1-7.2)               | .06 (1.5)   | .44 (11.1) |
| RBF-7.1-15-12                                  |               |               | .15-.42 (3.8-10.7)              |             | .59 (15)   |
| RBF-7.1-19-12                                  |               |               | .27-.56 (6.9-14.2)              |             | .75 (19)   |
| RBF-7.1-11.1-16                                |               | .63 (16)      | .08-.28 (2.1-7.2)               | .08 (2)     | .44 (11.1) |
| RBF-7.1-15-16                                  |               |               | .15-.42 (3.8-10.7)              |             | .59 (15)   |
| RBF-7.1-19-16                                  |               |               | .27-.56 (6.9-14.2)              |             | .75 (19)   |

\*Available in UL94 V0 material by special order. To order, add -V0 to the end of the part number.

Natural color available by special order. To order, add NT to the end of the part number

## MBRR/MBRP

### Mini Barbed Rivet

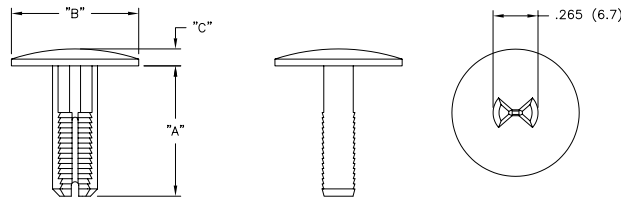
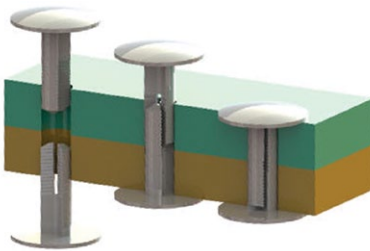


| Material: UL94 V2 Nylon 6/6, RMS-01 Color: Natural |             |                      |
|----------------------------------------------------|-------------|----------------------|
| Standard Pack: 1,000 per bag                       |             |                      |
| Part No.                                           | "A"         | Panel Thickness Max. |
| MBRP1-030-01                                       | .063 (1.60) | .030 (0.76)          |
| MBRP1-062-01                                       | .095 (2.41) | .062 (1.57)          |
| MBRP1-100-01                                       | .133 (3.38) | .100 (2.54)          |
| MBRP1-125-01                                       | .158 (4.01) | .125 (3.18)          |
| MBRP1-187-01                                       | .220 (5.59) | .187 (4.75)          |
| MBRP1-250-01                                       | .283 (7.19) | .250 (6.35)          |
| MBRR1-01                                           | -           | -                    |

Female part is sold separately and is common to all sizes in the MBRP series. To order, use part number MBRR1-01

# RIVETS, SCREWS, WASHERS & NUTS

## BR Barbed Rivet



Material: UL94 V2 Nylon 6/6, RMS-01\* Color: Natural

Standard Pack: 1,000 per bag (500 sets per bag)

| Part No.   | "A" Ref.    | "B" Dia.    | "C"        | Total Holding Thickness    | Hole Diameter |
|------------|-------------|-------------|------------|----------------------------|---------------|
| BR1-226-01 | .226 (5.7)  | .750 (19.1) | .093 (2.4) | .235 - .297 (6 - 7.5)      | .281 (7.1)    |
| BR1-344-01 | .344 (8.7)  |             |            | .346 - .502 (8.8 - 12.8)   |               |
| BR1-488-01 | .488 (12.4) |             |            | .500 - .812 (12.7 - 20.6)  |               |
| BR1-768-01 | .768 (19.5) |             |            | .781 - 1.375 (19.8 - 34.9) |               |
| BR2-226-01 | .226 (5.7)  | .406 (10.3) | .062 (1.6) | .235 - .297 (6 - 7.5)      |               |
| BR2-344-01 | .344 (8.7)  |             |            | .346 - .502 (8.8 - 12.8)   |               |
| BR2-488-01 | .488 (12.4) |             |            | .500 - .812 (12.7 - 20.6)  |               |
| BR2-768-01 | .768 (19.5) |             |            | .781 - 1.375 (19.8 - 34.9) |               |

\*Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19.

## HSR Heat Sink Spring Mount Rivet



Fig. 1

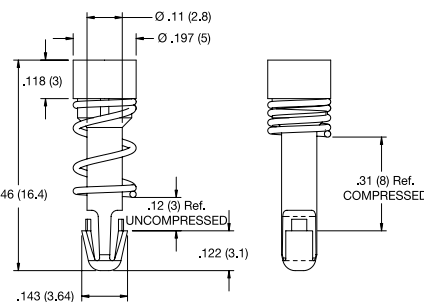
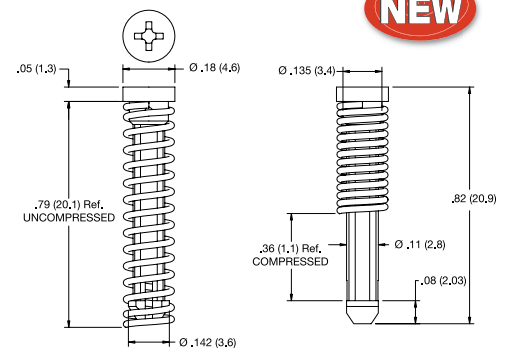


Fig. 2



**NEW**

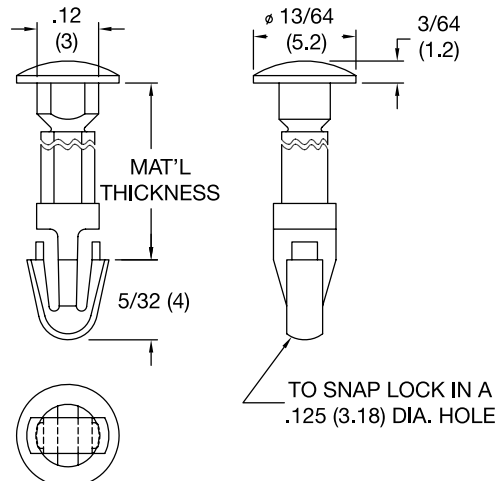
### Features

- Fastens a heat sink to a processor chip on a PCB
- The spring provides continuous pressure to the heat sink which improves conductivity

Standard Pack: 1,000 per bag

| Part No. | Heat Sink Hole Ø         | PCB Hole Ø | Rivet Material            | Spring Material                                | Fig. |
|----------|--------------------------|------------|---------------------------|------------------------------------------------|------|
| HSR-1    | .125 - .157 (3.18 - 4)   | .118 (3)   | UL94 V2 Nylon 6/6, RMS-47 | Spring Steel, RMS-326, Chrome Plating, RMS-355 | 1    |
| HSR-2    | .120 - .140 (3.05 - 3.5) | .122 (3.1) |                           | Stainless Steel, RMS-381                       | 2    |

## SLPA Snap Lock Pin with Arrowhead



| Material: Nylon 6/6, RMS-01*<br>Color: Natural | Standard Pack: 1,000 per bag<br>Material Thickness Maximum |
|------------------------------------------------|------------------------------------------------------------|
| SLPA125-187-01                                 | .187 (4.7)                                                 |
| SLPA125-250-01                                 | .250 (6.4)                                                 |
| SLPA125-312-01                                 | .312 (7.9)                                                 |
| SLPA125-375-01                                 | .375 (9.5)                                                 |
| SLPA125-500-01                                 | .500 (12.7)                                                |
| SLPA125-625-01                                 | .625 (15.9)                                                |
| SLPA125-750-01                                 | .750 (19.1)                                                |

\*Available in UL94 V0 material by special order.  
To order, replace -01 with -19.

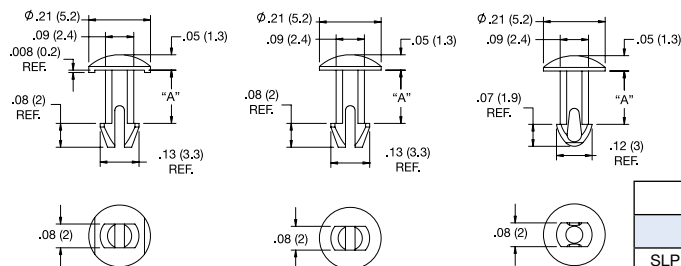
# RIVETS, SCREWS, WASHERS & NUTS

## SLP Snap Lock Pin

Fig. 1

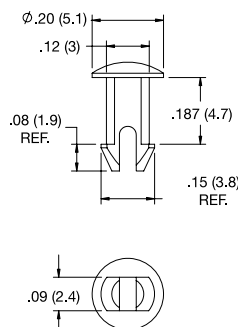
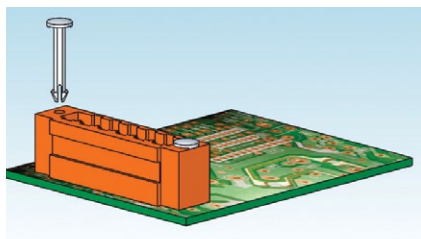
Fig. 2

Fig. 3



| Material: Nylon 6/6, RMS-01* Color: Natural                                              |                  |                  | Standard Pack: 1,000 per bag |                          |
|------------------------------------------------------------------------------------------|------------------|------------------|------------------------------|--------------------------|
| Fig 1                                                                                    | Fig 2            | Fig 3            | "A" ±.015                    | Hole Dia                 |
| SLP100-177-01                                                                            | SLP-1-100-177-01 | SLP-2-100-177-01 | .177 (4.5)                   | .098 ±.002<br>(2.5±0.05) |
| <b>NEW</b> SLP100-221-01                                                                 | SLP-1-100-221-01 | SLP-2-100-221-01 | .220 (5.6)                   |                          |
| <b>NEW</b> SLP100-236-01                                                                 | SLP-1-100-236-01 | SLP-2-100-236-01 | .236 (6)                     |                          |
| <b>NEW</b> SLP100-245-01                                                                 | SLP-1-100-245-01 | SLP-2-100-245-01 | .245 (6.2)                   |                          |
| SLP100-307-01                                                                            | SLP-1-100-307-01 | SLP-2-100-307-01 | .307 (7.8)                   |                          |
| SLP100-316-01                                                                            | SLP-1-100-316-01 | SLP-2-100-316-01 | .316 (8)                     |                          |
| <b>NEW</b> SLP100-330-01                                                                 | SLP-1-100-330-01 | SLP-2-100-330-01 | .330 (8.4)                   |                          |
| <b>NEW</b> SLP100-413-01                                                                 | SLP-1-100-413-01 | SLP-2-100-413-01 | .413 (10.5)                  |                          |
| SLP100-638-01                                                                            | SLP-1-100-638-01 | SLP-2-100-638-01 | .638 (16.2)                  |                          |
| Available by special order only, 5,000 piece minimum                                     |                  |                  |                              |                          |
| *Available in UL94 V0 material, RMS-19 by special order. To order, replace -01 with -19. |                  |                  |                              |                          |

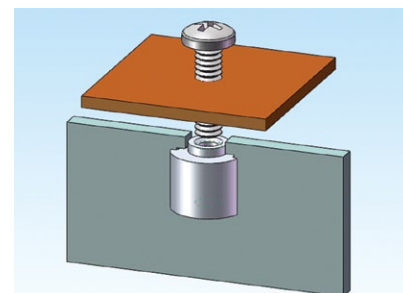
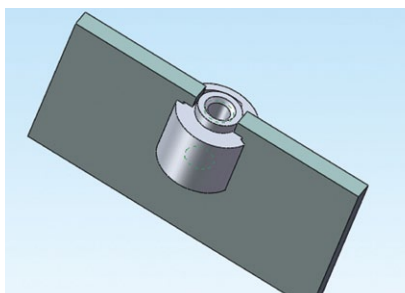
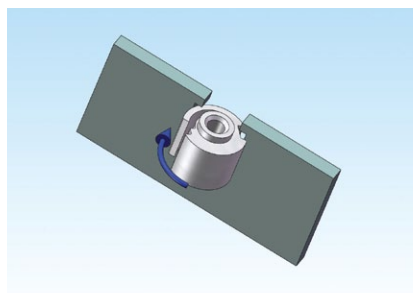
## SLP125 Snap Lock Pin



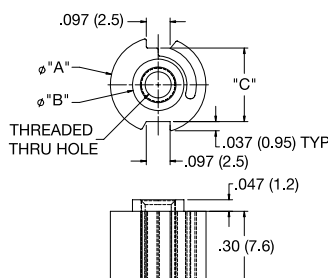
| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Natural                                         |             |
|---------------------------------------------------------------------------------------------|-------------|
| Standard Pack: 1,000 per bag                                                                |             |
| Part No.                                                                                    | Hole Dia.   |
| SLP125-187-01                                                                               | .125 (3.18) |
| *Available in UL94 V0 material, RMS-19 by special order.<br>To order, replace -01 with -19. |             |

## SEI Sheet Edge Insert

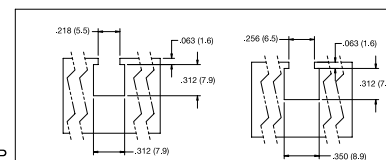
**NEW**



| Material: UL94 V2 Nylon 6/6, RMS-01    Color: Black |            |           |           |             |                         |               |
|-----------------------------------------------------|------------|-----------|-----------|-------------|-------------------------|---------------|
| Standard Pack: 1,000 per bag                        |            |           |           |             |                         |               |
| Part No.                                            | "A" Dia.   | "B" Dia.  | "C"       | Thread Type | Panel Thickness         | Mounting Hole |
| SEI-1                                               |            |           |           | #6-32 UNC   | .050 - .095 (1.27-2.41) | 1             |
| SEI-2                                               | .39 (9.9)  | .21 (5.3) | .30 (7.6) | M4          | .050 - .091 (1.27-2.3)  |               |
| SEI-3                                               |            |           |           | M3          |                         |               |
| SEI-4                                               | .43 (10.9) | .25 (6.3) | .34 (8.6) | M5          | .050 - .095 (1.27-2.41) | 2             |
| SEI-5                                               |            |           |           | M6          |                         |               |
| Screwdriver required for screw installation         |            |           |           |             |                         |               |



Mounting Hole 1 Mounting Hole 2

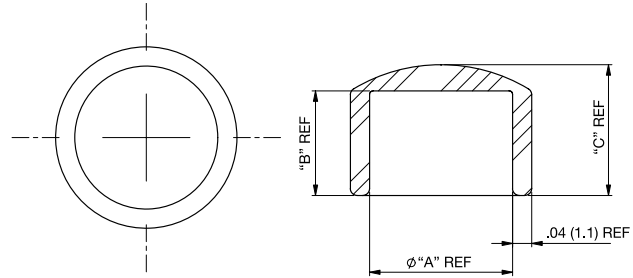


# RIVETS, SCREWS, WASHERS & NUTS

**SC**  
Screw Cap



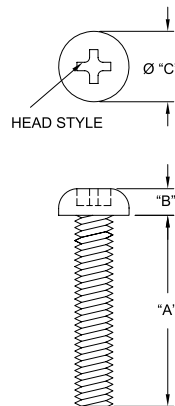
**NEW**



| Material: Silicone Rubber, 55±5 Shore A, RMS-368 Color: Black |                                    |            |          |            |
|---------------------------------------------------------------|------------------------------------|------------|----------|------------|
| Standard pack: 1,000 per bag                                  |                                    |            |          |            |
| Part No.                                                      | Recommended Button Head Screw Size | "A"        | "B"      | "C"        |
| SC1-M4                                                        | #8, M4                             | .264 (6.7) | .197 (5) | .256 (6.5) |
| SC1-M5                                                        | 1/4, M5                            | .323 (8.2) | .236 (6) | .295 (7.5) |
| SC1-M6                                                        | 5/16, M6                           | .382 (9.7) | .276 (7) | .335 (8.5) |

Other colors available by special order

**NSS/NSP**  
Slotted and Phillips  
Pan Head Screws



| Material: UL94 V-2 Nylon 6/6, RMS-01 |           |        |           |                  |
|--------------------------------------|-----------|--------|-----------|------------------|
| Color: Natural                       |           |        |           |                  |
| Standard Pack: 1,000 per bag         |           |        |           |                  |
| Part No.                             | "B"       | Thread | "C"       | Head Style       |
| NSS-4-#-01                           | .07 (1.8) | #4-40  | .21 (5.3) | SLOTTED,<br>PAN  |
| NSS-6-#-01                           |           | #6-32  | .27 (6.9) |                  |
| NSS-8-#-01                           |           | #8-32  | .32 (8.1) |                  |
| NSP-4-#-01                           | .08 (2)   | #4-40  | .21 (5.3) | PHILLIPS,<br>PAN |
| NSP-6-#-01                           |           | #6-32  | .26 (6.6) |                  |
| NSP-8-#-01                           |           | #8-32  | .32 (8.1) |                  |

Replace # in the part number with your required "A" dimension

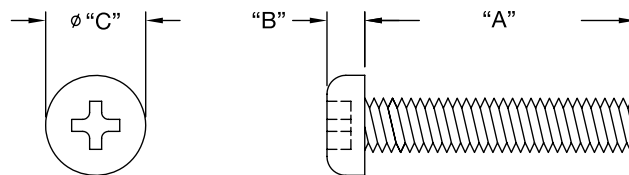
| #  | "A"         |
|----|-------------|
| 2  | 1/8 (3.2)   |
| 3  | 3/16 (4.8)  |
| 4  | 1/4 (6.4)   |
| 5  | 5/16 (7.9)  |
| 6  | 3/8 (9.5)   |
| 7  | 7/16 (11.1) |
| 8  | 1/2 (12.7)  |
| 10 | 5/8 (15.9)  |
| 12 | 3/4 (19.1)  |
| 14 | 7/8 (22.2)  |
| 16 | 1.00 (25.4) |

Available by special order; 5,000 piece minimum

| Mating Richco Hex Nuts |        |            |
|------------------------|--------|------------|
| Screw Part No.         | Thread | Nut Part # |
| NSS/NSP-4              | #4-40  | HN#4-40-01 |
| NSS/NSP-6              | #6-32  | HN#6-32-01 |
| NSS/NSP-8              | #8-32  | HN#8-32-01 |

See page 60 for details

**NMS**  
Nylon Metric Screw



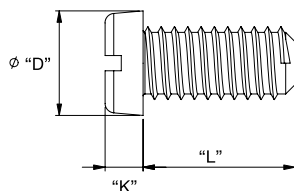
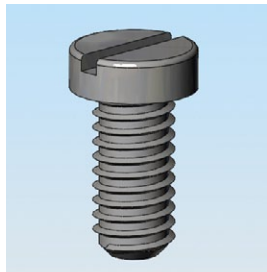
| Material: UL94 V2 Nylon 6/6, RMS-01 |            |           | Color: Natural |           |
|-------------------------------------|------------|-----------|----------------|-----------|
| Standard Pack: 1,000 per bag        |            |           |                |           |
| Part No.                            | "A"        | "B"       | Thread         | "C"       |
| NMS-306                             | .25 (6.4)  | .10 (2.5) | M3             | .22 (5.7) |
| NMS-308                             | .31 (8)    |           |                |           |
| NMS-310                             | .39 (10)   |           |                |           |
| NMS-312                             | .48 (12.1) | .11 (2.8) | M4             | .29 (7.4) |
| NMS-408                             | .31 (8)    |           |                |           |



# RIVETS, SCREWS, WASHERS & NUTS

## NSE-1207

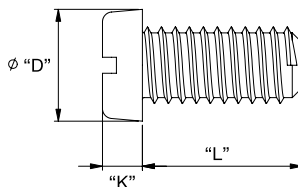
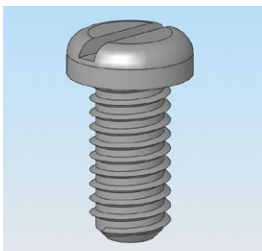
### Slotted Cheese Head Screw



| NSE-1207                                                    |                               |                  |   |   | Standard Pack: 1,000 per bag |   |    |    |    |    |    |    |    |    |     |     |
|-------------------------------------------------------------|-------------------------------|------------------|---|---|------------------------------|---|----|----|----|----|----|----|----|----|-----|-----|
| Mat'l: Nylon 6/6,<br>RMS-179<br>Color: Natural              | Thread                        | "L" Screw Length |   |   |                              |   |    |    |    |    |    |    |    |    | "D" | "K" |
|                                                             | NSE-1207-M2-L                 | M2               | 4 | 5 | 6                            | 8 | 10 | 12 | 16 | 20 | 25 | -  | -  | -  | 3.8 | 1.4 |
|                                                             | NSE-1207-M2.5-L               | M2.5             | - | - | 6                            | 8 | 10 | 12 | 15 | 20 | 25 | -  | -  | -  | 4.5 | 1.8 |
|                                                             | NSE-1207-M3-L                 | M3               | 4 | 5 | 6                            | 8 | 10 | 12 | 16 | 20 | 25 | 30 | -  | -  | 5.5 | 2   |
|                                                             | NSE-1207-M4-L                 | M4               | - | - | 6                            | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | -  | 7   | 2.6 |
|                                                             | NSE-1207-M5-L                 | M5               | - | - | 6                            | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | -  | 8.5 | 3.3 |
|                                                             | NSE-1207-M6-L                 | M6               | - | - | 6                            | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | 50 | 10  | 3.9 |
|                                                             | All dimensions in millimeters |                  |   |   |                              |   |    |    |    |    |    |    |    |    |     |     |
| Parts available by special order only. 5,000 piece minimum. |                               |                  |   |   |                              |   |    |    |    |    |    |    |    |    |     |     |

## NSE-1580

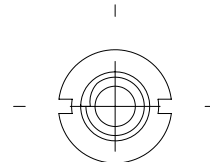
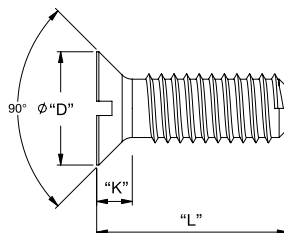
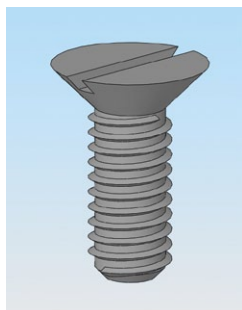
### Slotted Pan Head Screw



| Material: UL94 HB Nylon 6/6, RMS-179                        |        |                  |   |   |   |    |    |    |    |    |    |    | Color: Natural |     |     |  |
|-------------------------------------------------------------|--------|------------------|---|---|---|----|----|----|----|----|----|----|----------------|-----|-----|--|
| Standard Pack: 1,000 per bag                                |        |                  |   |   |   |    |    |    |    |    |    |    |                |     |     |  |
| Part No.                                                    | Thread | “L” Screw Length |   |   |   |    |    |    |    |    |    |    |                | “D” | “K” |  |
| NSE-1580-M2-L                                               | M2     | 4                | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | -  | -  | -              | 4   | 1.3 |  |
| NSE-1580-M2.5-L                                             | M2.5   | -                | - | 6 | 8 | 10 | 12 | 15 | 20 | 25 | -  | -  | -              | 5   | 1.5 |  |
| NSE-1580-M3-L                                               | M3     | 4                | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | -  | -              | 5.6 | 1.8 |  |
| NSE-1580-M4-L                                               | M4     | -                | - | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | -              | 8   | 2.4 |  |
| NSE-1580-M5-L                                               | M5     | -                | - | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | -              | 9.5 | 3   |  |
| NSE-1580-M6-L                                               | M6     | -                | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | 50             | 12  | 3.6 |  |
| All dimensions in millimeters                               |        |                  |   |   |   |    |    |    |    |    |    |    |                |     |     |  |
| Parts available by special order only. 5,000 piece minimum. |        |                  |   |   |   |    |    |    |    |    |    |    |                |     |     |  |

## NSE-2009

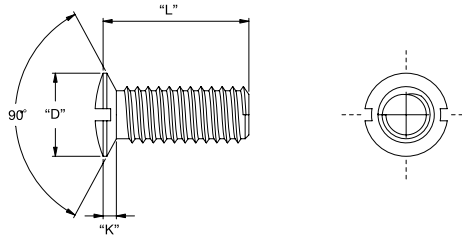
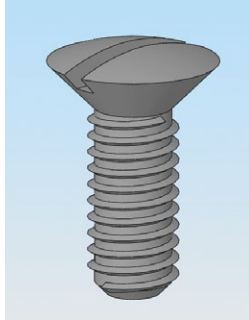
### Countersunk Head Screw



| NSE-2009                                                    |        |                  |   |   | Standard Pack: 1,000 per bag |    |    |    |    |    |    |    |    |    |    |    |    |     |      |      |
|-------------------------------------------------------------|--------|------------------|---|---|------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|------|
| Mat'l: Nylon 6/6,<br>RMS-179<br>Color: Natural              | Thread | "L" Screw Length |   |   |                              |    |    |    |    |    |    |    |    |    |    |    |    | "D" | "K"  |      |
| NSE-2009-M3-L                                               | M3     | 5                | 6 | - | 8                            | -  | -  | -  | 16 | -  | 20 | 25 | 30 | -  | -  | 42 | -  | -   | 5.5  | 1.65 |
| NSE-2009-M4-L                                               | M4     | -                | 6 | - | 8                            | 10 | 12 | 15 | 16 | -  | 20 | 25 | 30 | 35 | -  | -  | -  | -   | 8.4  | 2.7  |
| NSE-2009-M5-L                                               | M5     | -                | - | 7 | 8                            | 10 | 12 | 15 | 16 | 18 | 20 | 25 | 30 | 35 | 40 | -  | -  | -   | 9.3  | 2.7  |
| NSE-2009-M6-L                                               | M6     | -                | - | - | 8                            | 10 | 12 | -  | 16 | -  | 20 | 25 | 30 | -  | 40 | -  | 50 | 60  | 11.3 | 3.3  |
| All dimensions in millimeters                               |        |                  |   |   |                              |    |    |    |    |    |    |    |    |    |    |    |    |     |      |      |
| Parts available by special order only. 5,000 piece minimum. |        |                  |   |   |                              |    |    |    |    |    |    |    |    |    |    |    |    |     |      |      |

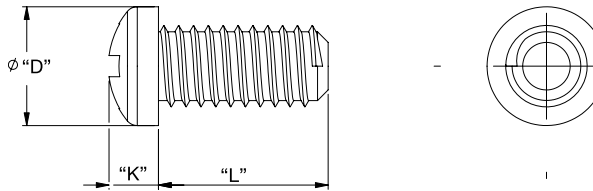
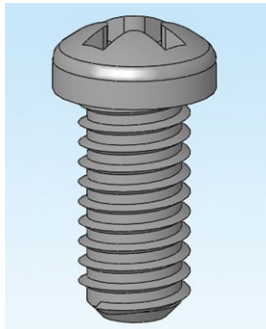
# RIVETS, SCREWS, WASHERS & NUTS

**NSE-2010**  
Slotted Countersunk  
Oval Head Screw



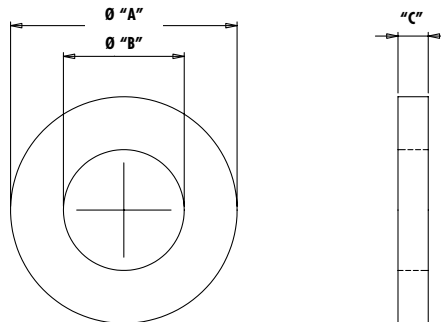
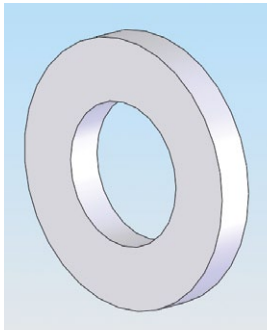
| NSE-2010                                                    |        | Standard Pack: 1,000 per bag |   |   |    |    |    |    |    |    |    |    |    |      |      |
|-------------------------------------------------------------|--------|------------------------------|---|---|----|----|----|----|----|----|----|----|----|------|------|
| Mat'l: Nylon 6/6,<br>RMS-179<br>Color: Natural              | Thread | "L" Screw Length             |   |   |    |    |    |    |    |    |    |    |    | "D"  | "K"  |
| NSE-2010-M3-L                                               | M3     | 5                            | 6 | 8 | 10 | 12 | -  | 16 | -  | 20 | -  | 25 | -  | 5.5  | 1.65 |
| NSE-2010-M4-L                                               | M4     | -                            | 6 | 8 | 10 | 12 | 15 | -  | 20 | -  | 25 | 30 | -  | 8.4  | 2.7  |
| NSE-2010-M5-L                                               | M5     | -                            | - | - | 10 | 12 | 15 | -  | 18 | 20 | -  | 25 | 30 | 9.3  | 2.7  |
| NSE-2010-M6-L                                               | M6     | -                            | - | 8 | 10 | 12 | 15 | -  | 20 | 22 | 25 | 30 | 40 | 11.3 | 3.3  |
| All dimensions in millimeters                               |        |                              |   |   |    |    |    |    |    |    |    |    |    |      |      |
| Parts available by special order only. 5,000 piece minimum. |        |                              |   |   |    |    |    |    |    |    |    |    |    |      |      |

**NSE-34812**  
Cross Recessed  
Oval Head Screw



| NSE-34812                                                   |        | Standard Pack: 1,000 per bag |   |   |   |    |    |    |    |    |    |    |    |     |     |
|-------------------------------------------------------------|--------|------------------------------|---|---|---|----|----|----|----|----|----|----|----|-----|-----|
| Mat'l: Nylon 6/6,<br>RMS-179<br>Color: Natural              | Thread | "L" Screw Length             |   |   |   |    |    |    |    |    |    |    |    | "D" | "K" |
| NSE-34812-M3-L                                              | M3     | 4                            | 5 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | -  | -  | -  | 6   | 2.4 |
| NSE34812-M4-L                                               | M4     | -                            | - | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | -  | 8   | 3.1 |
| NSE-34812-M5-L                                              | M5     | -                            | - | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | 50 | 9.5 | 3.7 |
| NSE-34812-M6-L                                              | M6     | -                            | - | - | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 40 | 50 | 12  | 4.6 |
| All dimensions in millimeters                               |        |                              |   |   |   |    |    |    |    |    |    |    |    |     |     |
| Parts available by special order only. 5,000 piece minimum. |        |                              |   |   |   |    |    |    |    |    |    |    |    |     |     |

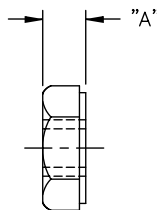
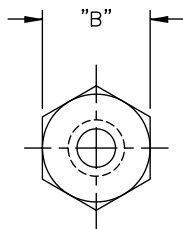
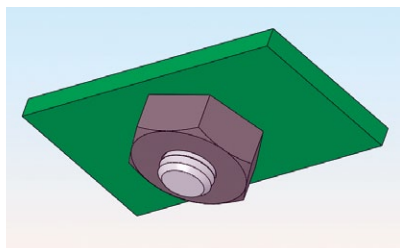
**NWE**  
Nylon Washer



| NWE-34815                                      |        | Standard Pack: 1,000 per bag |       |     |
|------------------------------------------------|--------|------------------------------|-------|-----|
| Mat'l: Nylon 6/6,<br>RMS-174<br>Color: Natural | Thread | Ø "A"                        | Ø "B" | "C" |
| NWE-34815-M2.5                                 | M2.5   | 6.5                          | 2.7   | 0.5 |
| NWE-34815-M3                                   | M3     | 7                            | 3.2   | 0.5 |
| NWE-34815-M4                                   | M4     | 9                            | 4.3   | 0.8 |
| NWE-34815-M5                                   | M5     | 10                           | 5.3   | 1   |
| NWE-34815-M6                                   | M6     | 12                           | 6.4   | 1.6 |
| All dimensions in millimeters                  |        |                              |       |     |
| Parts available by special order only.         |        |                              |       |     |
| 5,000 piece minimum.                           |        |                              |       |     |

# RIVETS, SCREWS, WASHERS & NUTS

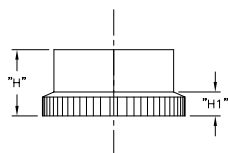
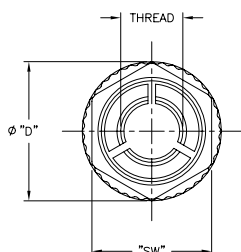
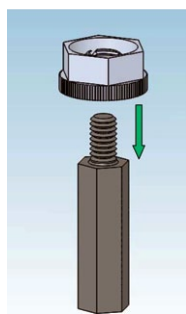
**HN**  
Hex Nut



| Color: Natural |                              |            |                        |        |
|----------------|------------------------------|------------|------------------------|--------|
| Part No.       | Standard Pack: 1,000 per bag |            |                        |        |
|                | "A"                          | "B"        | Material               | Thread |
| *HN#4-40-01    | .093 (2.3)                   | .245 (6.2) | Nylon 6/6 (RMS-01)     | #4-40  |
| HN#6-32-01     | .110 (2.8)                   | .305 (7.7) | Nylon 6/6 (RMS-01)     | #6-32  |
| HN#8-32-01     | .125 (3.2)                   | .338 (8.6) | Nylon 6/6 (RMS-01)     | #8-32  |
| HN-M3-79       | .10 (2.5)                    | .22 (5.5)  | Polycarbonate (RMS-79) | M3     |
| HN-M4-01       | .12 (3)                      | .27 (6.9)  | Nylon 6/6 (RMS-01)     | M4     |
| HN-M4-79       | .13 (3.3)                    | .31 (8)    | Polycarbonate (RMS-79) | M4     |
| HN-M6-01       | .21 (5.4)                    | .39 (9.9)  | Nylon 6/6 (RMS-01)     | M6     |

\*Part does not carry the washer face

**KNF**  
Kwik Nut Fastener

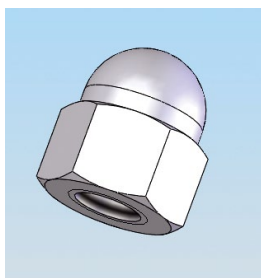


| Material: Nylon 6/6, RMS-48 Color: Black |                              |         |           |           |           |
|------------------------------------------|------------------------------|---------|-----------|-----------|-----------|
| Part No.                                 | Standard Pack: 1,000 per bag |         |           |           |           |
|                                          | Thread                       | "SW"    | "D"       | "H"       | "H1"      |
| KNF-30                                   | M3                           | .28 (7) | .32 (8.2) | .15 (4)   | .06 (1.5) |
| KNF-40                                   | M4                           | .32 (8) | .37 (9.4) | .19 (4.7) | .06 (1.5) |

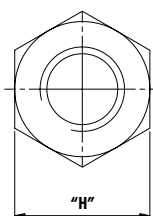
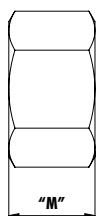
## Features

- To press fit over a threaded stud. To install, push down the length of the threaded fastener to desired location and lock with a 180° turn
- To unscrew, remove with a wrench

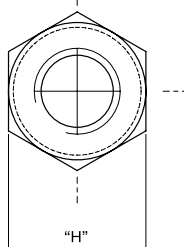
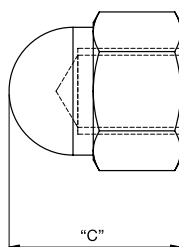
**NNE**  
Nylon Nuts



**NNE-34814**



**NNE-1587**



| Material: UL94 HB Nylon 6/6, RMS-174 |        |     |     |
|--------------------------------------|--------|-----|-----|
| Color: Natural                       |        |     |     |
| Standard Pack: 1,000 per bag         |        |     |     |
| Part No.                             | Thread | "M" | "H" |
| NNE-34814-M2                         | M2     | 1.6 | 4   |
| NNE-34814-M2.5                       | M2.5   | 2   | 5   |
| NNE-34814-M3                         | M3     | 2.4 | 5.5 |
| NNE-34814-M4                         | M4     | 3.2 | 7   |
| NNE-34814-M5                         | M5     | 4.2 | 8   |
| NNE-34814-M6                         | M6     | 5   | 10  |

All dimensions in millimeters

Parts available by special order only. 5,000 piece minimum.

| Material: UL94 HB Nylon 6/6, RMS-174 |        |     |     |
|--------------------------------------|--------|-----|-----|
| Color: Natural                       |        |     |     |
| Standard Pack: 1,000 per bag         |        |     |     |
| Part No.                             | Thread | "C" | "H" |
| NNE-1587-M3                          | M3     | 6   | 5.5 |
| NNE-1587-M4                          | M4     | 8   | 7   |
| NNE-1587-M5                          | M5     | 10  | 8   |
| NNE-1587-M6                          | M6     | 12  | 10  |

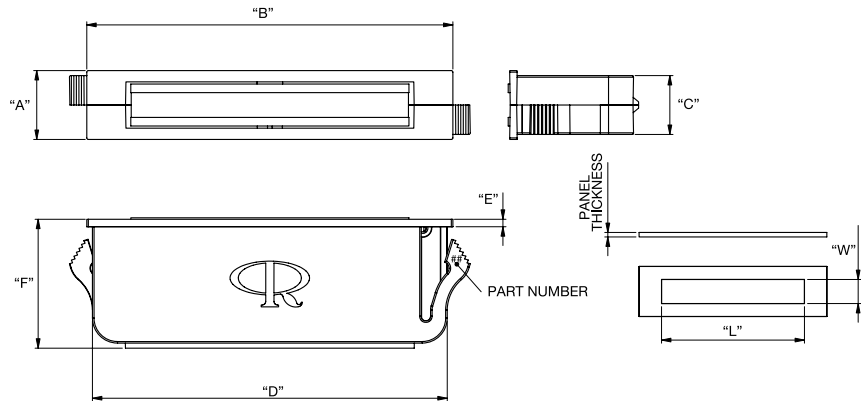
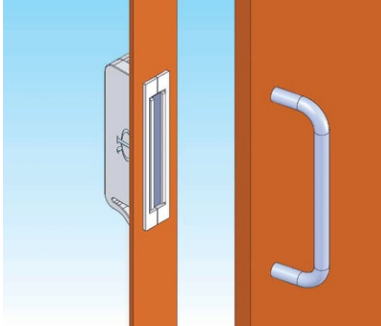
All dimensions in millimeters

Parts available by special order only. 5,000 piece minimum.

# MOTION CONTROL, BUMPERS & FEET

## ML Magnetic Latch

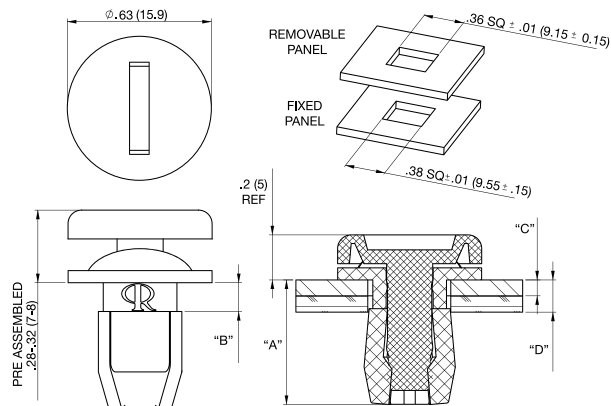
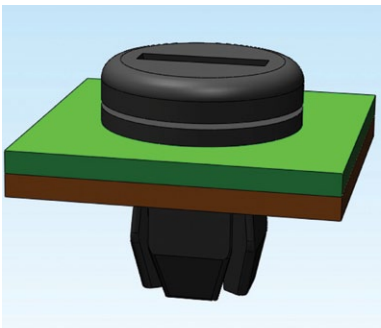
**NEW**



| Part No.     |              | Material: Housing: Polypropylene, RMS-150; Housing Pole: 1010 Steel, RMS-198, Zinc Coating, RMS-354; Magnet: RMS-408 Standard Pack: 10 per bag |             |           |             |           |             |                     |             |           |
|--------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------------|-----------|-------------|---------------------|-------------|-----------|
| Color: White | Color: Black | "A"                                                                                                                                            | "B"         | "C"       | "D"         | "E"       | "F"         | Panel Thickness     | "L"         | "W"       |
| ML-S-1       | ML-S-1BK     | .30 (7.7)                                                                                                                                      | .93 (23.6)  | .24 (6)   | .86 (21.8)  | .03 (0.8) | .52 (13.3)  | .02 - .08 (0.5 - 2) | .88 (22.2)  | .25 (6.4) |
| ML-S-2       | ML-S-2BK     |                                                                                                                                                |             |           |             |           |             | .08 - .14 (2 - 3.5) |             |           |
| ML-M-1       | ML-M-1BK     | .36 (9.5)                                                                                                                                      | 1.56 (39.7) | .30 (7.7) | 1.49 (37.9) | .03 (0.8) | 1.00 (25.4) | .02 - .08 (0.5 - 2) | 1.50 (38.1) | .32 (8.1) |
| ML-M-2       | ML-M-2BK     |                                                                                                                                                |             |           |             |           |             | .08 - .14 (2 - 3.5) |             |           |
| ML-M-3       | ML-M-3BK     |                                                                                                                                                |             |           |             |           |             | .14 - .20 (3.5 - 5) |             |           |
| ML-L-1       | ML-L-1BK     | .43 (11)                                                                                                                                       | 2.30 (58.5) | .36 (9.2) | 2.23 (56.7) | .05 (1.2) | .81 (20.6)  | .02 - .08 (0.5 - 2) | 2.25 (57.1) | .38 (9.6) |
| ML-L-2       | ML-L-2BK     |                                                                                                                                                |             |           |             |           |             | .08 - .14 (2 - 3.5) |             |           |
| ML-L-3       | ML-L-3BK     |                                                                                                                                                |             |           |             |           |             | .14 - .20 (3.5 - 5) |             |           |

## QTPF Quarter Turn Panel Fastener

**NEW**



### Features

- Using a flat-head screwdriver or coin, a quarter-turn releases the bottom panel while retaining the fastener in the removable panel

| Material: UL94 HB Acetal, RMS-14 Color: Black                        |            |           |                               |                           | Standard Pack: 100 per bag |
|----------------------------------------------------------------------|------------|-----------|-------------------------------|---------------------------|----------------------------|
| Part No.:                                                            | "A"        | "B"       | Removable Panel Thickness "C" | Total Panel Thickness "D" |                            |
| QTPF-1BK                                                             | .48 (12.3) | .07 (1.7) | .02-.06 (0.5-1.6)             | .08-.20 (2-5)             |                            |
| QTPF-2BK                                                             | .54 (13.7) | .12 (3.1) | .07-.12 (1.8-3.1)             | .16-.24 (4-6.2)           |                            |
| White color available by special order. To order replace BK with WH. |            |           |                               |                           |                            |

# MOTION CONTROL, BUMPERS & FEET

## CS

### Catch & Striker

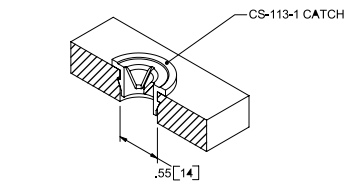


| Average Insertion & Extraction Data for the CS Series |               |                |               |                |
|-------------------------------------------------------|---------------|----------------|---------------|----------------|
|                                                       | CS-113-1      |                | CS-113-4      |                |
|                                                       | Insertion (N) | Extraction (N) | Insertion (N) | Extraction (N) |
| CS-113-2                                              | 34            | 22             | 12            | 11             |
| CS-113-5                                              | 24            | 64             | 16            | 38             |
| CS-113-6                                              |               |                |               |                |

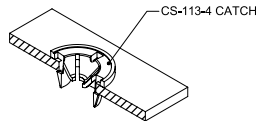
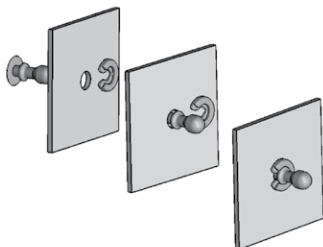
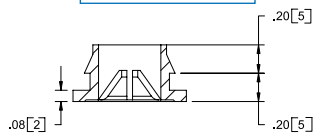
### Features

- Striker is mounted with the striker base (CS-113-3) and screwed into the door or mounted to outside of removable panel (CS-113-6)
- The catch is designed either for mounting in wood cabinets (CS-113-1) or into a panel (CS-113-4)

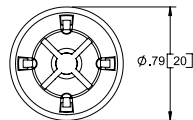
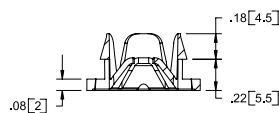
| CS-113-1                                                                                                                                   | CS-113-4                                                                                   | CS-113-2                                                    | CS-113-5                                                                                                      | NEW<br>CS-113-6                                                                                                                | CS-113-3                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Blind Hole Catch                                                                                                                           | Catch                                                                                      | Striker                                                     | Striker                                                                                                       | Striker                                                                                                                        | Base                                          |
| Mat'l: UL94 HB Supertough Nylon 6/6, RMS-73<br>Color: Black                                                                                | Mat'l: UL94 V2 Nylon 6, RMS-159<br>Color: Natural                                          | Mat'l: UL94 HB Supertough Nylon 6/6, RMS-73<br>Color: Black | Mat'l: UL94 V2 Nylon 6/6, RMS-01<br>Color: Natural                                                            | Mat'l: UL94 HB Impact Modified Nylon 6/6, RMS-148<br>Color: Natural                                                            | Mat'l: UL94 HB Acetal, RMS-39<br>Color: Black |
| To press-fit into a .551 ± .003 (14 ± 0.08) dia. Hole, in a .394 (10) min. thick board of compliant material (i.e. wood, fiberboard, etc.) | To snap-lock in a .551 ± .003 (14 ± 0.08) dia. Hole, in a .125 (3.2) nom. panel thickness. | Mounted with the use of CS-113-3                            | Mounted with the use of CS-113-3<br>Black color available by special order. Add BK to the end of the part no. | To fit a .23-.25 (5.8 - 6.4) dia. Hole, in a .062 (1.6) thick panel<br>Striker comes as one part including the retainer washer | Use #4, #5 or M3 countersunk screw.           |
| Standard Pack: 500 per bag                                                                                                                 |                                                                                            |                                                             |                                                                                                               |                                                                                                                                |                                               |



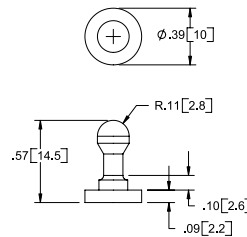
CS-113-1 Catch



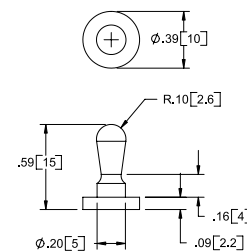
CS-113-4 Catch



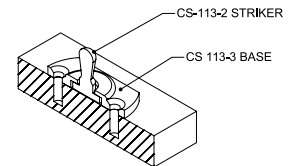
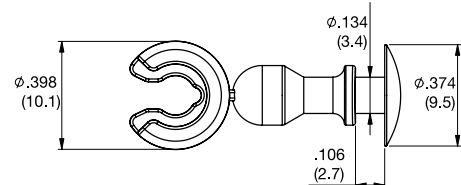
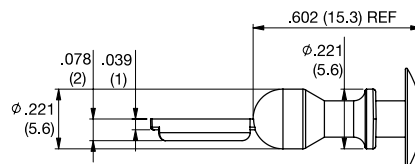
CS-113-5 Striker



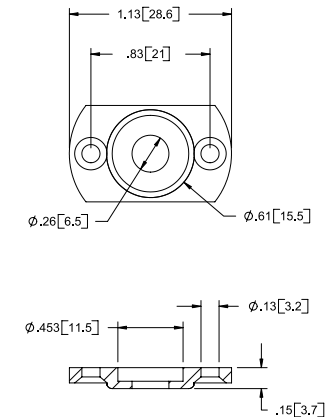
CS-113-2 Striker



CS-113-6 Striker



CS-113-3 Base



# MOTION CONTROL, BUMPERS & FEET

## DCS

### Metal & Plastic Catch & Striker

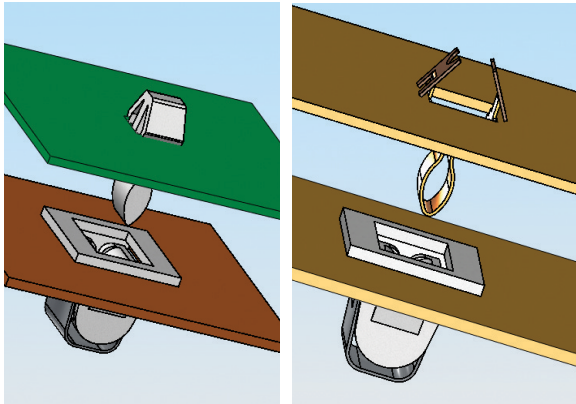


Fig. 1

Fig. 2

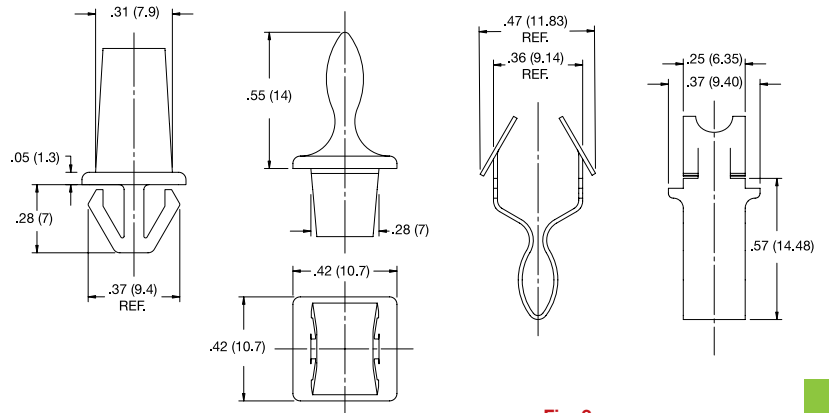
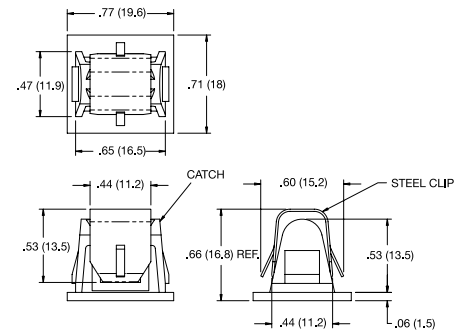


Fig. 3

| DCS-1 (Fig. 1)                                                                      | DCS-4 (Fig. 2)                                                                         | DCS-7 (Fig. 3)                                                                                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Plastic Striker</b>                                                              | <b>Metal Striker</b>                                                                   | <b>Catch Assembly</b>                                                                                                           |
| <b>Mat'l: POM, RMS-14</b><br><b>Color: Natural</b>                                  | <b>Mat'l: Plated Steel, RMS-212</b><br><b>Color: Dichromate Plated Finish, RMS-272</b> | <b>Mat'l: Catch: Nylon 6/6, RMS-01</b><br><b>Color: Natural. Metal Clip: Plated Steel, RMS-212, Black Oxide Finish, RMS-372</b> |
| To snap lock into a .287 (7.29) square hole, .032-.052 (0.81-1.32) panel thickness. | To snap lock into a .287 (7.29) square hole, .032-.052 (0.81-1.32) panel thickness.    | To snap lock into a .515 x .655 (13.08 x 16.64) rectangular hole, in a .035-.062 (0.89-1.57) panel thickness.                   |
| <b>Standard Pack: 500 per bag</b>                                                   |                                                                                        |                                                                                                                                 |



## DL/DLS

### Door Latch and Strikers



Fig. 1 Door Latch

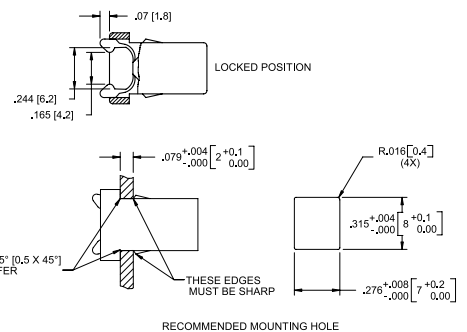
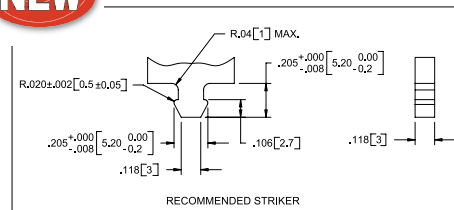
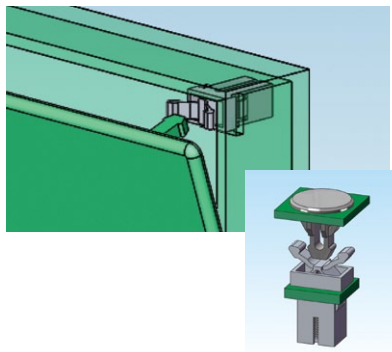


Fig. 2 Striker

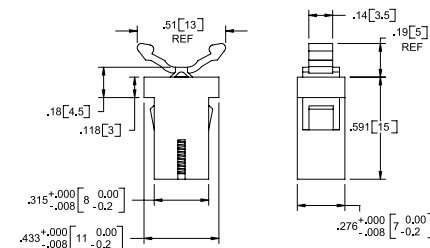
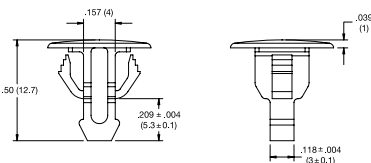
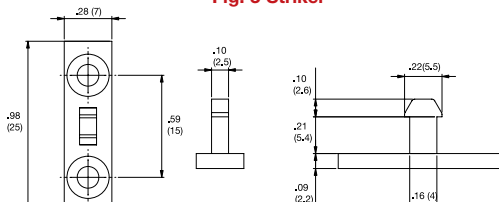
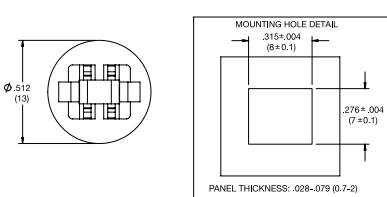


Fig. 3 Striker



| <b>Mat'l: UL94 HB Acetal, RMS-121, Spring: Stainless Steel, RMS-280</b><br><b>Color: Black</b> |             |      |
|------------------------------------------------------------------------------------------------|-------------|------|
| <b>Standard Pack: 500 per bag</b>                                                              |             |      |
| Part No.                                                                                       | Description | Fig. |
| DL-1X                                                                                          | Door Latch  | 1    |
| Audible Lock and Release                                                                       |             |      |
| Supplied in released position                                                                  |             |      |
| Locking Stroke = .21 (5.4)                                                                     |             |      |
| Release Stroke = .05 (1.3)                                                                     |             |      |
| Locking Stroke Force = 16 oz. ± 6.3 oz. (500 gr. ± 200 gr.)                                    |             |      |
| Retention Force (Locked) = 32.2 oz. (1 kg.) Min.                                               |             |      |
| Continuous Working Temperature = 14 - 140°F (-10 - 60°C)                                       |             |      |
| Storage Temperature = -40°F to 176°F (-40°C to 80°C)                                           |             |      |
| Life Cycle = 50,000 operations                                                                 |             |      |
| <b>All values for reference only</b>                                                           |             |      |

| <b>Material: UL94 HB Acetal, RMS-14 Color: Black</b> |      |                             |
|------------------------------------------------------|------|-----------------------------|
| <b>Standard Pack: 1,000 per bag</b>                  |      |                             |
| Part No.                                             | Fig. | Mounting Method             |
| DLS-1                                                | 2    | Reverse Mount               |
| DLS-2                                                | 3    | #3 or M3 Countersunk Screws |

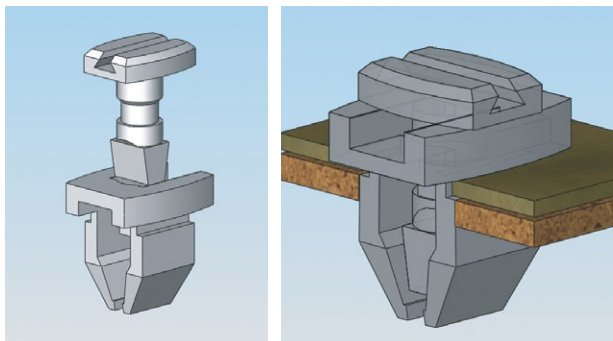




# MOTION CONTROL, BUMPERS & FEET

## FQT

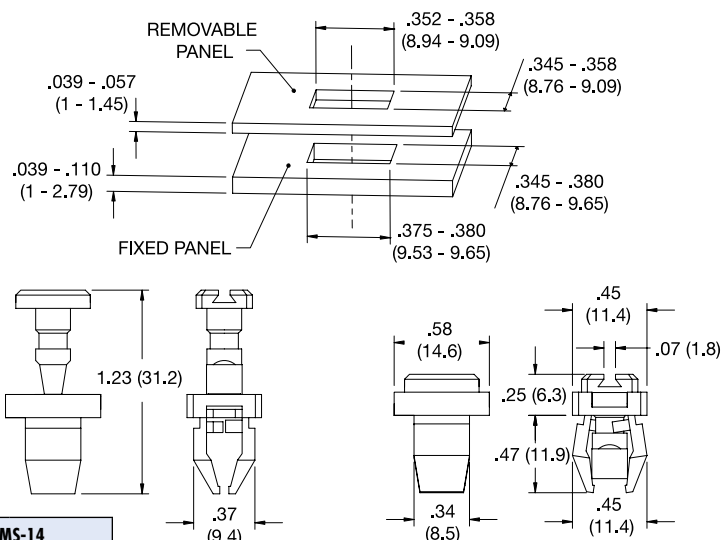
### Quarter Turn Panel Fastener



#### Features

- Easily installed by driving the plunger into the grommet with a hammer locking the two panels together
- Panels are easily separated using a screwdriver to rotate the plunger a quarter turn

#### PANEL DETAILS

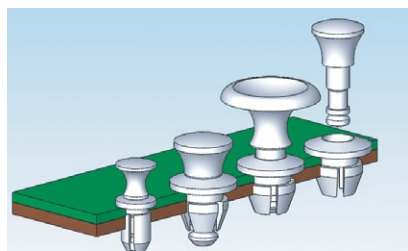


| Material: Acetal, RMS-14 |       |               |
|--------------------------|-------|---------------|
| Part No.                 | Color | Standard Pack |
| FQT-1                    | White | 1,000 per bag |
| FQT-1BK                  | Black | 1,000 per bag |

NEW

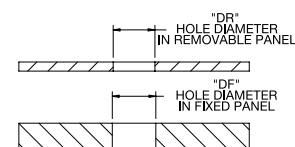
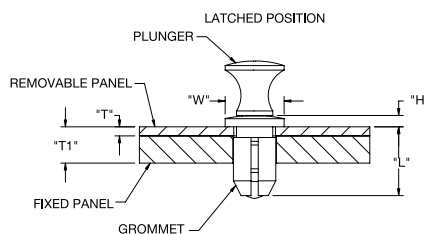
## SLG/SLPL/SLPB

### Snap Latch

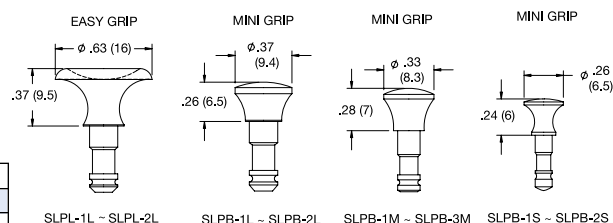


#### Features

- To install, push the grommet into the removable panel and then the desired plunger into the grommet. When the panel and plunger are pushed into the fixed panel, it locks them together
- Simply pull on the plunger to remove the non-fixed panel



#### PLUNGER STYLES

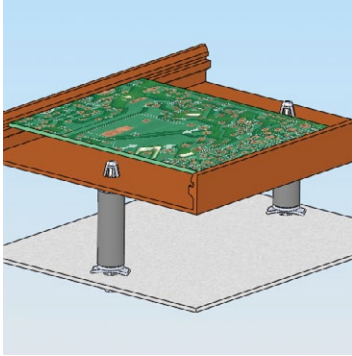


| Part No. Examples |      |       |       |
|-------------------|------|-------|-------|
| Grommet Part No.  | Dash | Style | Color |
| SLG               | -    | SL    | B     |
| Plunger Part No.  | Dash | Style | Color |
| SLPL              | -    | 1L    | W     |

| Mat'l: Plunger; UL94V2 Nylon 6, RMS-120, Grommet; UL94 V2 Polycarbonate, RMS-72 |                                                                                       |             |            |            |                                    |                                        |                                      |                                  | Standard Pack: 1,000 per bag |                                      |               |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|------------|------------|------------------------------------|----------------------------------------|--------------------------------------|----------------------------------|------------------------------|--------------------------------------|---------------|
| Grommet Part Number                                                             | Grommet Style                                                                         | "W"         | "H"        | "L" Ref.   | Removable Panel Thickness "T" Max. | Total Panel Thickness "T1" Min. - Max. | Removable Panel Hole Dia. Range "DR" | Fixed Panel Hole Dia. Range "DF" | Mating Plunger Part Number   | Alternate Mating Plunger Part Number | Plunger Style |
| SLG                                                                             | 1L                                                                                    | .425 (10.8) | .079 (2)   | .354 (9)   | .063 (1.6)                         | .079 - .165 (2 - 4.2)                  | .295 - .303                          | .315 - .323                      | SLPL                         | SLPB                                 | 1L            |
|                                                                                 | 2L                                                                                    |             |            | .394 (10)  | .098 (2.5)                         | .118 - .205 (3 - 5.2)                  | (7.5 - 7.7)                          | (8 - 8.2)                        |                              |                                      | 2L            |
|                                                                                 | 1M                                                                                    | .335 (8.5)  | .071 (1.8) | .315 (8)   | .043 (1.1)                         | .059 - .146 (1.5 - 3.7)                | .234 - .240                          | .250 - .256                      | SLPB                         | -                                    | 1M            |
|                                                                                 | 2M                                                                                    |             |            | .335 (8.5) | .063 (1.6)                         | .079 - .165 (2 - 4.2)                  | (5.95 - 6.1)                         | (6.35 - 6.5)                     |                              |                                      | 2M            |
|                                                                                 | 3M                                                                                    |             |            | .374 (9.5) | .098 (2.5)                         | .118 - .272 (3 - 5.2)                  |                                      |                                  |                              |                                      | 3M            |
|                                                                                 | 1S                                                                                    |             |            | .299 (7.6) | .039 (1)                           | .079 - .158 (2 - 4)                    | .177 - .181                          | .185 - .189                      |                              |                                      | 1S            |
|                                                                                 | 2S                                                                                    | .256 (6.5)  | .047 (1.2) | .319 (8.1) | .059 (1.5)                         | .098 - .177 (2.5 - 4.5)                | (4.5 - 4.6)                          | (4.7 - 4.8)                      |                              |                                      | 2S            |
|                                                                                 | Color: Black or White. To order, add suffix "B" or "W" to the end of the part number. |             |            |            |                                    |                                        |                                      |                                  |                              |                                      |               |
| Plunger and mating grommet sold separately.                                     |                                                                                       |             |            |            |                                    |                                        |                                      |                                  |                              |                                      |               |

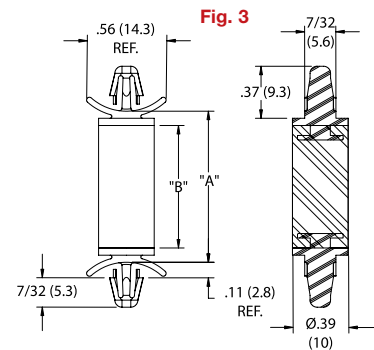
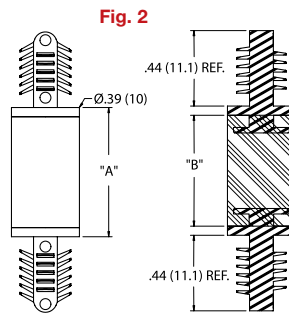
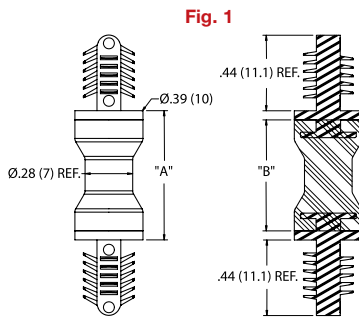
# MOTION CONTROL, BUMPERS & FEET

## HSCBS/VD Vibration and Shock Dampening Spacers

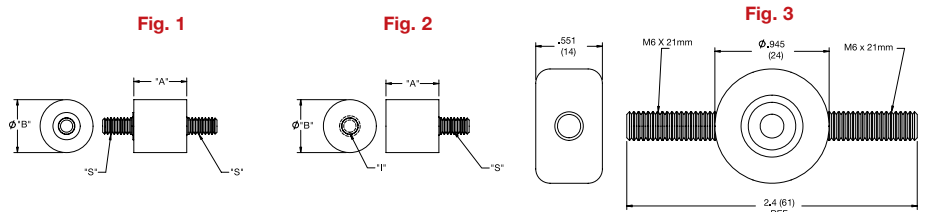
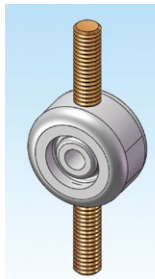
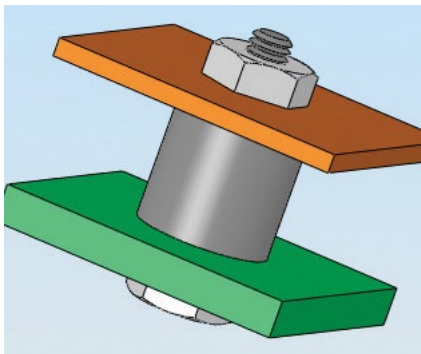


Patent 7,257,870

| Fix Mat'l: UL94 V0 Nylon 6/6, RMS-169 Color: Natural |                                 |            |                              |                              | Standard Pack: 1,000 per bag                          |                |      |
|------------------------------------------------------|---------------------------------|------------|------------------------------|------------------------------|-------------------------------------------------------|----------------|------|
| Part No.                                             | "A" ± .03 (0.8)<br>Uncompressed | "B" Ref.   | Hole Diameter                | Panel Thickness              | Spacer Material                                       | Target Load    | Fig. |
| VD-2                                                 | .73 (18.5)                      | .62 (16.3) | .250 ± .003<br>(6.35 ± 0.08) | .07 ± .31<br>(1.8 ± 7.9)     | UL94 HB TPE 35<br>Shore A,<br>RMS-167<br>Color: Black | 1.0 lbf (4.4N) | 1    |
| VD-3                                                 | .97 (24.7)                      | .87 (22)   |                              |                              |                                                       | 1.6 lbf (7.1N) | 2    |
| VD-4                                                 | 1.21 (30.7)                     | 1.10 (28)  |                              |                              |                                                       |                |      |
| VD-5                                                 | .49 (12.4)                      | .38 (9.7)  |                              |                              |                                                       |                |      |
| VD-6                                                 | .73 (18.5)                      | .62 (16.3) |                              |                              |                                                       |                |      |
| VD-7                                                 | .97 (24.7)                      | .87 (22)   |                              |                              |                                                       |                |      |
| VD-8                                                 | 1.21 (30.7)                     | 1.10 (28)  | .187 ± .003<br>(4.75 ± 0.08) | .031 ± .078<br>(0.79 ± 1.98) | UL94 HB TPE 45<br>Shore A<br>RMS-168<br>Color: Black  | 2.2 lbf (9.8N) | 3    |
| HSCBS-1                                              | .59 (14.9)                      | .38 (9.7)  |                              |                              |                                                       |                |      |
| HSCBS-2                                              | .83 (21)                        | .62 (16.3) |                              |                              |                                                       |                |      |
| HSCBS-3                                              | 1.07 (27.1)                     | .87 (22)   |                              |                              |                                                       |                |      |
| HSCBS-4                                              | 1.31 (33.2)                     | 1.10 (28)  |                              |                              |                                                       |                |      |



## QM Vibration Mount



Mat'l: Neoprene Rubber 40 Shore A, RMS-241 Color: Black; Insert/Studs: 1010-1020 Steel, RMS-242; Plating: RMS-274.  
\*QM8 only: IIR, Shore 55 Shore A, RMS 360 Color: Black; Stud: Brass, RMS-349

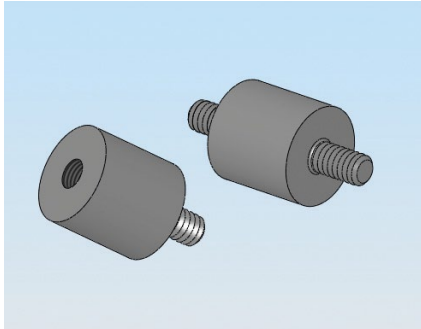
| Standard Pack: 100 per bag                               |                            |              |                 |                   |             |                                     |
|----------------------------------------------------------|----------------------------|--------------|-----------------|-------------------|-------------|-------------------------------------|
| Part No.                                                 | "A"                        | "B"          | Stud Thread "S" | Insert Thread "I" | Fig. No.    | Ref Load at 15% Deflection Lbs (Kg) |
| QM1                                                      | 7/16 (11.1)                | 7/16 (11.1)  | #6-32 x 1/4     | --                | 1           | 8 (4)                               |
| QM1T                                                     |                            |              |                 | #6-32 x 3/16      | 2           | 5 (2)                               |
| QM2T                                                     |                            |              | 1/2 (12.7)      | 9/16 (14.3)       | #6-32 x 1/2 | #6-32 x 3/16                        |
| QM3                                                      | #8-32 x 3/8                | --           |                 |                   | 1           | 9 (4)                               |
| QM3T                                                     |                            | #8-32 x 3/16 |                 |                   | 2           | 8 (4)                               |
| QM4                                                      |                            | --           |                 |                   | 1           | 15 (7)                              |
| QM4T                                                     | #8-32 x 3/16               | 2            |                 |                   | 28 (13)     |                                     |
| QM5                                                      | 3/4 (19.1)                 | 1.0 (25.4)   | #1/4-20 x 1/2   | --                | 1           | 43 (20)                             |
| QM7                                                      | 9/16 (14.3)                | 1/2 (12.7)   | #10-32 x 3/8    | --                | 1           | 3 (1)                               |
| QM7T                                                     |                            |              |                 | #10-32 x 3/16     | 2           | 10 (5)                              |
| QM8                                                      | See Drawing for Dimensions |              |                 |                   | 3           | 12 (5)                              |
| Threaded metal insert may be blind clip, or through-nut. |                            |              |                 |                   |             |                                     |

Threaded metal insert may be blind clip, or through-nut.

# MOTION CONTROL, BUMPERS & FEET

## SDD

### Metric Vibration Mount

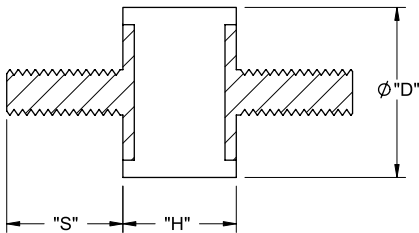


| Mat'l: Natural Rubber; 55 Shore A, Color: Black; Inserts/Studs: ST37 Galvanized Steel, RMS-266 |          |     |        |                 |                   |      |
|------------------------------------------------------------------------------------------------|----------|-----|--------|-----------------|-------------------|------|
| Standard Pack: 100 per bag                                                                     |          |     |        |                 |                   |      |
| Part No.                                                                                       | "D" Dia. | "H" | Thread | Stud Thread "S" | Insert Thread "I" | Fig. |
| SDD-DAA-15-8-M4                                                                                | 15       | 8   | M4     | 10              | -                 | 1    |
| SDD-DIA-15-15-M4                                                                               |          | 15  |        | 13              | 4                 | 2    |
| SDD-DII-15-15-M4                                                                               |          | 30  |        | -               |                   | 3    |
| SDD-DIA-15-30-M4                                                                               |          | 25  |        | 15              |                   | 2    |
| SDD-DIA-20-25-M6                                                                               | 20       | 15  | M6     | 19              | 6                 | 1    |
| SDD-DAA-25-15-M6                                                                               | 25       | 20  |        | 18.5            | -                 |      |
| SDD-DAA-25-20-M6                                                                               |          |     |        |                 | -                 |      |

All dimensions in mm.

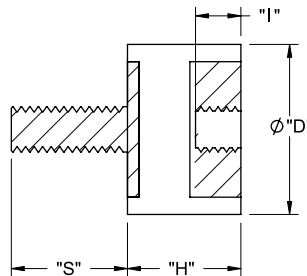
Available by special order, 1,000 piece minimum. Other sizes may be available.

Fig. 1



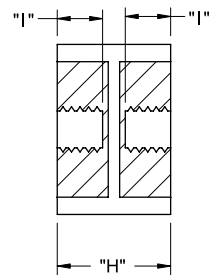
DAA

Fig. 2



DIA

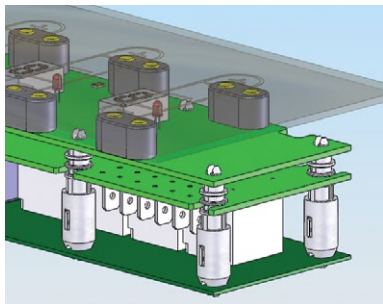
Fig. 3



DII

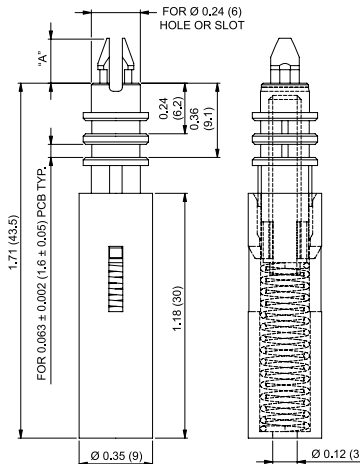
## TCS

### Touch Control Spacer



Patent Pending.

Top Hole: Snap-lock: .165 ± .002 (4.2 ± 0.05)  
Panel Thickness: .063 ± .002 (1.6 ± 0.05)



Bottom Hole: To locate over a vertical tab

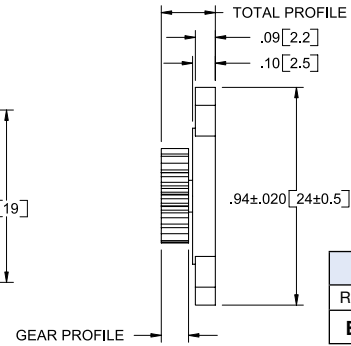
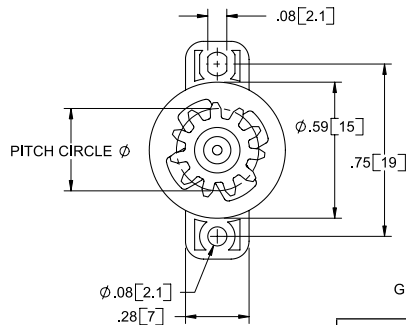
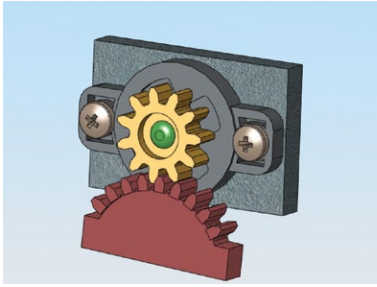
| Standard Pack: 500 per bag                 |       |                   |                               |
|--------------------------------------------|-------|-------------------|-------------------------------|
| Color:<br>Natural                          | "A"   | Spacer Material   | Spring<br>Material            |
| TCS-1                                      | .21   | Nylon 6/6, RMS-01 | Stainless<br>Steel<br>RMS-230 |
| TCS-2                                      | (5.4) | Nylon 6/6, RMS-19 |                               |
| TCS-3                                      | .17   | Nylon 6/6, RMS-01 |                               |
| TCS-4                                      | (4.2) | Nylon 6/6, RMS-19 |                               |
| Travel: .12 (3)                            |       |                   |                               |
| Custom designs available by special order. |       |                   |                               |

### Features

- Spring provides continuous force to light sensors mounted onto a PCB so that they are in constant contact with the cover

## RFRT-G

### Two Way Rotary Damper



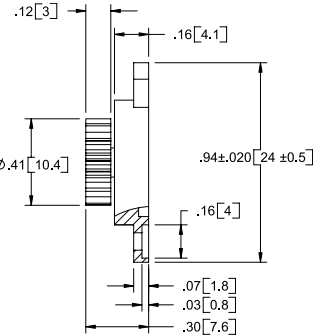
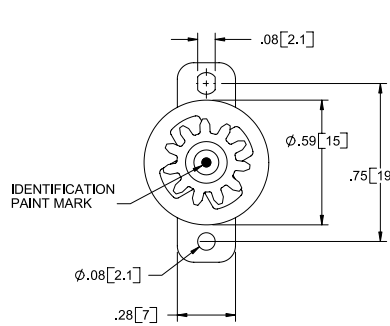
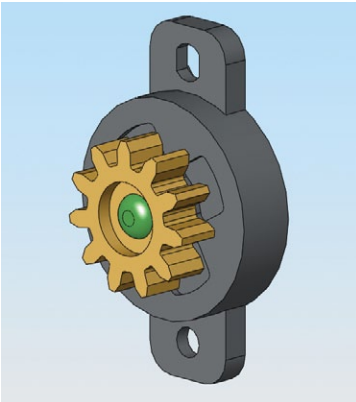
| Part No. Example |           |
|------------------|-----------|
| RFRT-G2-200-     | G2        |
| Base Part No.    | Gear Type |

| GEAR SPECIFICATION |                |                |                |
|--------------------|----------------|----------------|----------------|
| GEAR*              | 1              | 2              | 3              |
| Type               | Standard Spur  | Standard Spur  | Standard Spur  |
| Tooth Profile      | Involute Gear  | Involute Gear  | Involute Gear  |
| Pressure Angle     | 20°            | 20°            | 20°            |
| No. of Teeth       | 14             | 10             | 11             |
| Pitch Circle Dia.  | Ø .28 (7)      | Ø.39 (10)      | Ø.35 (8.8)     |
| Gear Profile       | .15 (3.7)      | .12 (3)        | .14 (3.6)      |
| Total Profile      | .26 (6.6) Ref. | .23 (5.9) Ref. | .26 (6.5) Ref. |

| Material: Housing; UL94 HB Polycarbonate, RMS-161 |                               |
|---------------------------------------------------|-------------------------------|
| Shaft and Gear; UL94 HB Acetal, RMS-160           |                               |
| Color: Black                                      | Standard Pack: 1,000 per bag  |
| Part No.                                          | Torque (gf.cm) @20RPM & 23° C |
| RFRT-G2-200-G*                                    | 20 ± 7                        |
| RFRT-G2-300-G*                                    | 30 ± 8                        |
| RFRT-G2-450-G*                                    | 45 ± 10                       |
| RFRT-G2-600-G*                                    | 60 ± 12                       |
| RFRT-G2-101-G*                                    | 100 ± 20                      |

## RFRT-PN

### Two Way Rotary Damper

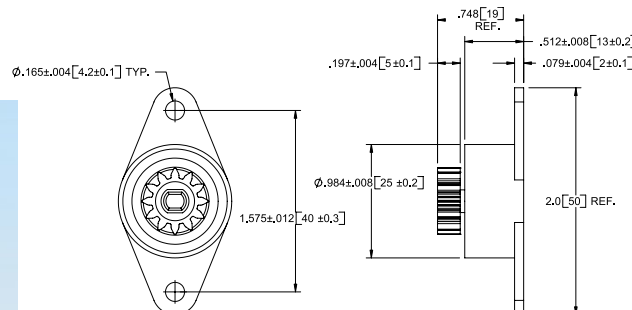
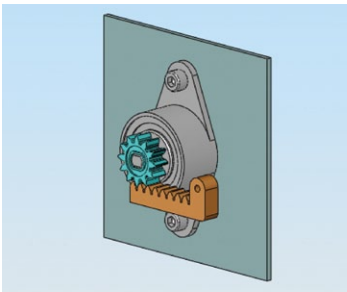


| GEAR SPECIFICATIONS   |               |
|-----------------------|---------------|
| Type                  | Standard Spur |
| Tooth Profile         | Involute Gear |
| Pressure Angle        | 20°           |
| Number of Teeth       | 11            |
| Pitch Circle Diameter | Ø.35 (8.8)    |

| Material: Housing; UL94 HB Polycarbonate, RMS-273 |                               |                           |
|---------------------------------------------------|-------------------------------|---------------------------|
| Shaft and Gear; UL94 HB Acetal, RMS-160           |                               |                           |
| Color: Black                                      | Standard Pack: 1,000 per bag  |                           |
| Part No.                                          | Torque (gf.cm) @20RPM & 23° C | Identification Paint Mark |
| RFRT-PN4                                          | 40 ± 10                       | Yellow                    |
| RFRT-PN6                                          | 60 ± 12                       | Blue                      |
| RFRT-PN5                                          | 80 ± 15                       | Green                     |

## RFRT-D2

### Rotary Damper Two-Way High-Torque



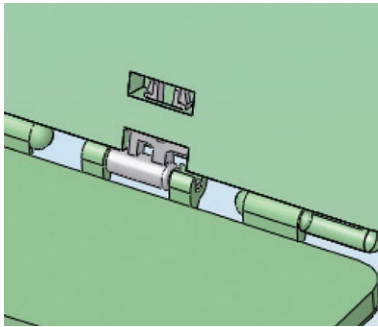
| Material: Housing; UL94 HB Polycarbonate, RMS-161 |                                |
|---------------------------------------------------|--------------------------------|
| Shaft and Gear; UL94 HB Acetal, RMS-160           |                                |
| Color: Black                                      | Standard Pack: 100 per bag     |
| Part No.                                          | Torque (gf.cm) @ 20RPM & 23° C |
| RFRT-D2-102-G2                                    | 1000 ± 200                     |
| RFRT-D2-152-G2                                    | 1500 ± 300                     |

| GEAR SPECIFICATIONS   |               |
|-----------------------|---------------|
| Type                  | Standard Spur |
| Tooth Profile         | Involute Gear |
| Pressure Angle        | 20°           |
| No. of Teeth          | 12            |
| Pitch Circle Diameter | Ø .47 (12)    |

## Notes

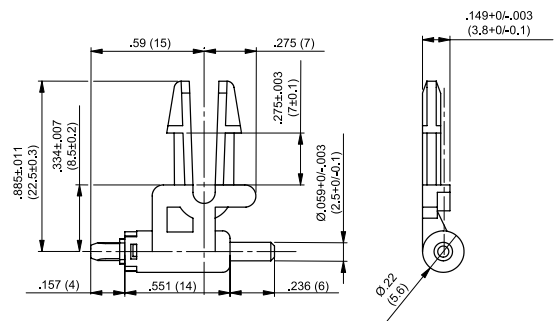
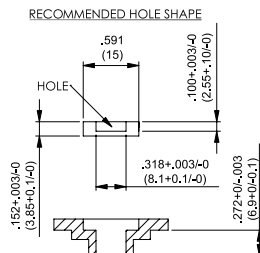
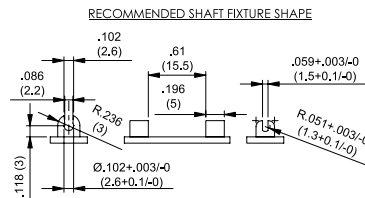
D

### RAD-20 Axis Damper



#### Features

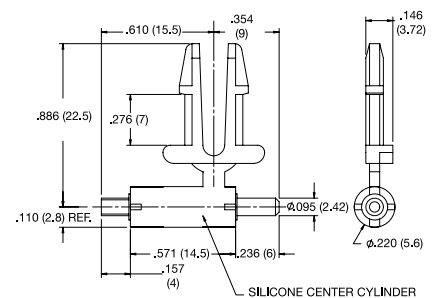
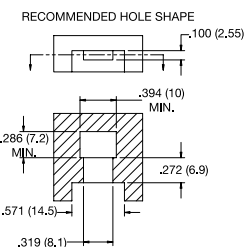
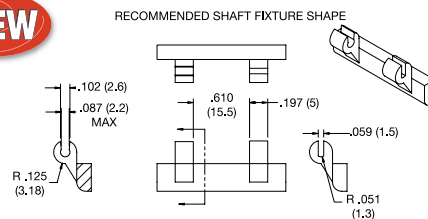
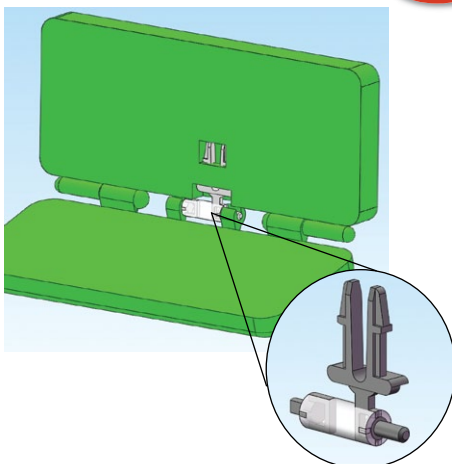
- Damper snaps into the access panel/door (see Recommended Shaft Fixture Shape) and the recommended mounting shape in the chassis (see Recommended Hole Shape)



| RAD-20                                                                                                                             | Standard Pack:<br>1,000 per bag |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| Body and Shaft:<br>Polycarbonate, RMS-161<br>Color: Black O-Ring: Silicone<br>Rubber, RMS-296 Color: Red<br>Spring: SWP-B, RMS-309 | Load Torque                     |
| RAD-20                                                                                                                             | 20 gf. cm                       |
| Revolution Angle = 90°                                                                                                             |                                 |
| Max. Revolution Angle = 130° ± 10°                                                                                                 |                                 |
| All dimensions in mm                                                                                                               |                                 |

### AS-1 Axis Spring

**NEW**

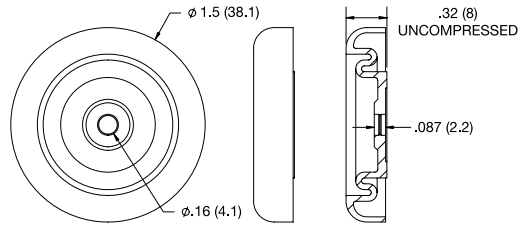
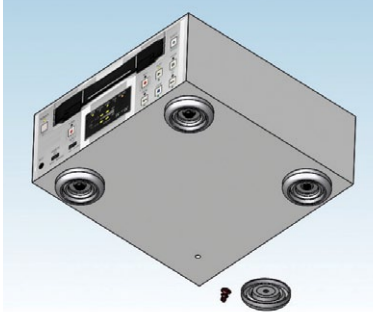


| Material: Ends: UL94 V2 Nylon 6/6, RMS-406 Color: Black    |                      |                |
|------------------------------------------------------------|----------------------|----------------|
| Center: Silicone Rubber, RMS-407 Color: Clear              |                      |                |
| Standard Pack: 100 per bag                                 |                      |                |
| Part No.                                                   | Torque per Angular ° | Max Revolution |
| AS-1                                                       | 0.4 (gf* cm)/°       | ±180°          |
| Other durometer silicone center available by special order |                      |                |

# MOTION CONTROL, BUMPERS & FEET

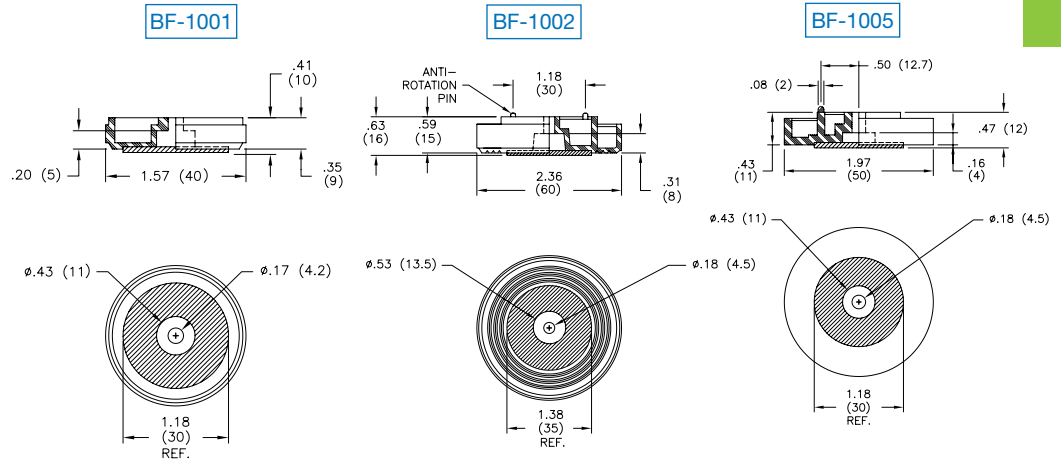
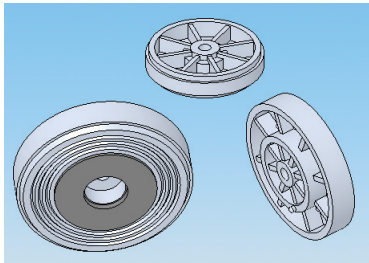
## SVF

### Shock & Vibration Dampening Foot



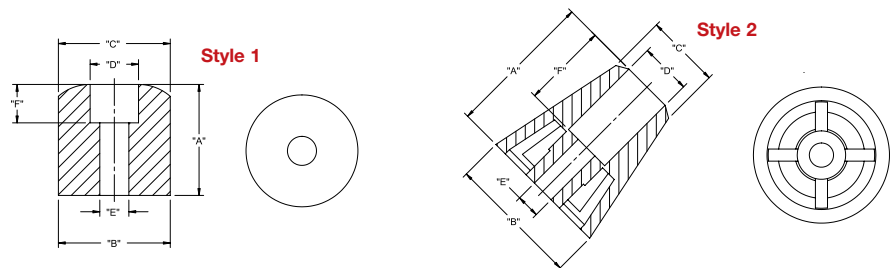
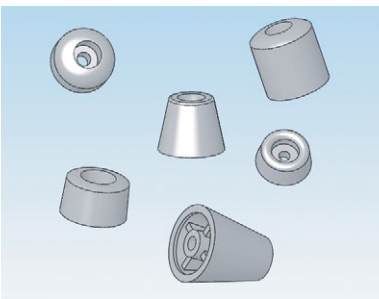
| Color: Black Standard Pack: 400 per bag |                                 | Richco Snap Rivet Sold Separately |          |
|-----------------------------------------|---------------------------------|-----------------------------------|----------|
| Part No.                                |                                 | Panel Thickness Range             | Use With |
| Mat'l: TPE, 75 Shore A, RMS-158         | Mat'l: TPE, 64 Shore A, RMS-384 |                                   |          |
| SVF-1                                   | SVF-2                           | .012 - .051 (0.3 - 1.3)           | SR-4050  |
|                                         |                                 | .051 - .091 (1.3 - 2.3)           | SR-4060  |
|                                         |                                 | .091 - .130 (2.3 - 3.3)           | SR-4070  |
|                                         |                                 | .130 - .169 (3.3 - 4.3)           | SR-4080  |

## BF Big Foot



| Standard Pack: 100 per bag |                      |                      |                            |                  |       |
|----------------------------|----------------------|----------------------|----------------------------|------------------|-------|
| Part No.                   | Foot Material        | Cushion Material     | Recommended Mounting Screw | Load Capacity    | Color |
| BF-1001                    | UL94 HB ABS, RMS-114 | Nylon Fiber, RMS-240 | #8 or M4 Pan Head          | 22 lbs. (10 kg.) | Black |
| BF-1002                    |                      |                      |                            |                  |       |
| BF-1005                    |                      |                      |                            |                  |       |

## SOF Screw on Feet



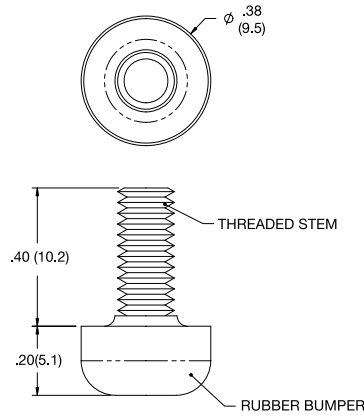
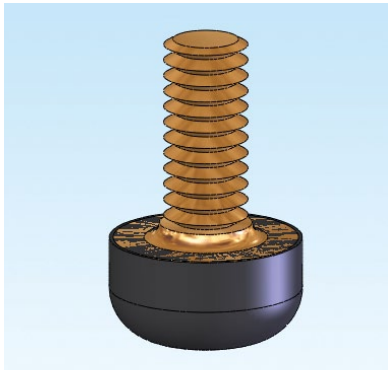
| Material: Neoprene Rubber, RMS-190 Color: Black |             |            |            | Standard Pack: 100 per bag |           |            |       |
|-------------------------------------------------|-------------|------------|------------|----------------------------|-----------|------------|-------|
| Part No.                                        | "A"         | Ø "B"      | Ø "C" REF. | Ø "D"                      | Ø "E"     | "F"        | Style |
| SOF-15129                                       | .28 (7.1)   | .63 (15.9) | .54 (13.8) | .31 (8)                    | .13 (3.2) | .16 (4)    | 1     |
| SOF-15140                                       | .37 (9.5)   | .69 (17.5) | -          |                            | .16 (4)   | .20 (5.2)  | 2     |
| SOF-15125                                       | .45 (11.5)  | .75 (19.1) | .71 (18)   | .40 (10.2)                 | .20 (5)   | .25 (6.35) | 1     |
| SOF-15111                                       | .60 (15.25) | .75 (19)   | .50 (12.7) | .31 (8)                    | .16 (4)   | .19 (4.8)  | 2     |
| SOF-15127                                       | .72 (18.35) | .73 (18.5) | -          |                            | .19 (4.8) | .25 (6.35) | 1     |
| SOF-15126                                       | .98 (25)    | .89 (22.5) | .50 (12.7) | .34 (8.7)                  | .16 (4)   | .57 (14.5) | 2     |



# MOTION CONTROL, BUMPERS & FEET

## TB

### Threaded Insert Bumper



**Material: Rubber Bumper: IIR, Shore 40-50A Durometer, RMS-348**  
**Threaded Stem: Brass, RMS-349 Color: Black**

**Standard Pack: 100 per bag**

| Part No. | Thread Type |
|----------|-------------|
| TB-1     | #6-32       |
| TB-2     | #8-32       |
| TB-3     | M3          |
| TB-4     | M4          |

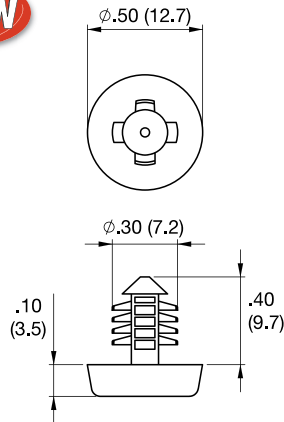
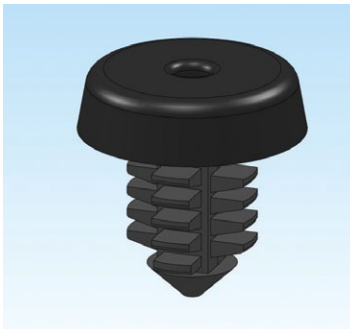
**Typical Compression for 10 lb Maximum Load = .03 (0.8)**

D

## FBR-1

### Foot, Barbed Mount

**NEW**



**Material: Rivet: UL94 V2 Nylon 6/6, RMS-01 Foot: TPE, RMS-351**  
**Color: Black**

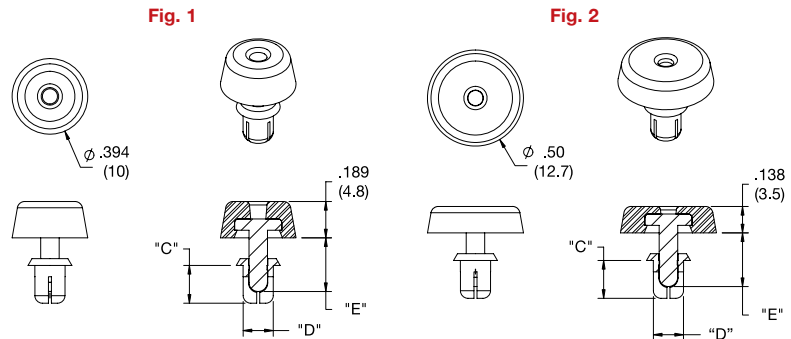
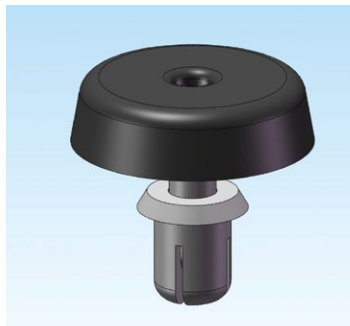
**Standard Pack: 1,000 per bag**

| Part No. | Hole Dia. ± .003 (0.08) | Min. Panel Thickness |
|----------|-------------------------|----------------------|
| FBR-1    | .268 (6.8)              | .394 (10)            |

## FSR

### Foot, Snap Rivet Mount

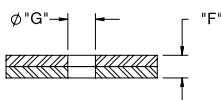
**NEW**



**Material: Rivet: UL94 V2 Nylon 6, RMS-52 Foot: TPE, RMS-351, Color: Black**

**Standard Pack: 1,000 per bag**

| Part No. | Hole Dia "G"        | Panel Thickness "F" | "C"        | "D"        | "E"        | Fig |
|----------|---------------------|---------------------|------------|------------|------------|-----|
| FSR-1    | .142-.146 (3.6-3.7) | .047-.083 (1.2-2.1) | .138 (3.5) | .138 (3.5) | .201 (5.1) | 1   |
| FSR-2    | .142-.146 (3.6-3.7) | .083-.118 (2.1-3)   | .177 (4.5) | .138 (3.5) | .240 (6.1) |     |
| FSR-3    | .161-.165 (4.1-4.2) | .098-.138 (2.5-3.5) | .197 (5)   | .157 (4)   | .280 (7.1) |     |
| FSR-4    | .142-.146 (3.6-3.7) | .047-.083 (1.2-2.1) | .138 (3.5) | .138 (3.5) | .201 (5.1) |     |
| FSR-5    | .142-.146 (3.6-3.7) | .083-.118 (2.1-3)   | .177 (4.5) | .138 (3.5) | .240 (6.1) | 2   |
| FSR-6    | .161-.165 (4.1-4.2) | .098-.138 (2.5-3.5) | .197 (5)   | .157 (4)   | .280 (7.1) |     |



# MOTION CONTROL, BUMPERS & FEET

## FF Fast Foot

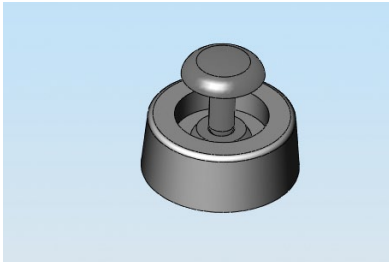


Fig. 1

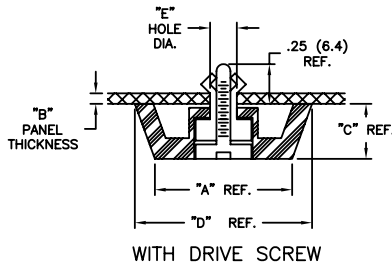
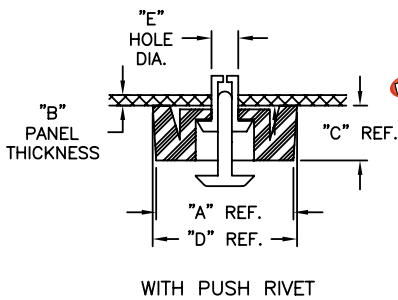
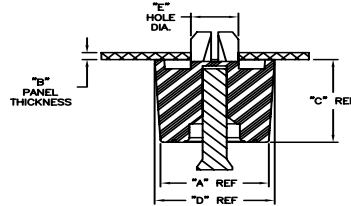


Fig. 2



| Mat'l: Screw, UL94 HB Acetal, RMS-14; Rivet: UL94 V2 Nylon 6, RMS-52; Rivet Pin: UL94HB Polypropylene, RMS-126 Color: Black |                       |                         |                         |            |                       |                         |               |     |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|-------------------------|------------|-----------------------|-------------------------|---------------|-----|
| Part No.                                                                                                                    | Foot Material         | "A" Ref.                | "B" Thicknesss Range    | "C" Ref.   | "D" Ref.              | "E" Hole Diameter       | Standard Pack | Fig |
| FF-001B                                                                                                                     | UL94 HB TPR, RMS-76   | .79 (20)                | .039 - .091 (1 - 2.3)   | .55 (14)   | .95 (24)              | .197 - .201 (5 - 5.1)   |               | 1   |
| FF-004B                                                                                                                     |                       | .71 (18)                |                         | .39 (10)   | .79 (20)              |                         |               |     |
| FF-003-P3X5.5B                                                                                                              | UL94 HB TPR, RMS-42   | .53 (13.5)              | .031 - .071 (0.8 - 1.8) | .22 (5.5)  | .56 (14.2)            | .122 - .126 (3.1 - 3.2) | 100           | 2   |
| FF-005-P4X5B                                                                                                                | UL94 HB TPR, RMS-76   | .79 (20)                | .071 - .111 (1.8 - 2.8) | .17 (4.2)  | .83 (21)              | .161 - .165 (4.1 - 4.2) |               |     |
| FF-005-P4X6B                                                                                                                |                       |                         | .114 - .146 (2.9 - 3.7) |            |                       |                         |               |     |
| FF-005-P4X7B                                                                                                                |                       |                         | .150 - .189 (3.8 - 4.8) |            |                       |                         |               |     |
| FF-005-P4X8B                                                                                                                |                       |                         | .024 - .039 (0.6 - 1)   |            |                       |                         |               |     |
| FF-006-P4X6B                                                                                                                |                       | .55 (14)                | .039 - .079 (1 - 2)     | .24 (6)    | .59 (15)              | .200 - .205 (5.1 - 5.2) |               |     |
| FF-006-P4X7B                                                                                                                |                       |                         | .079 - .118 (2 - 3.1)   |            |                       |                         |               |     |
| FF-006-P4X8B                                                                                                                |                       |                         | .031 - .047 (0.8 - 1.2) |            |                       |                         |               |     |
| FF-006-P5X6.5B                                                                                                              |                       |                         | .051 - .091 (1.3 - 2.3) |            |                       |                         |               |     |
| FF-006-P5X7.5B                                                                                                              |                       | .79 (20)                | .031 - .071 (0.8 - 1.8) | .31 (8)    | .83 (21)              | .161 - .165 (4.1 - 4.2) |               |     |
| FF-008-P4X6B                                                                                                                |                       |                         | .075 - .110 (1.9 - 2.8) |            |                       |                         |               |     |
| FF-008-P4X7B                                                                                                                |                       |                         | .114 - .157 (2.9 - 4)   |            |                       |                         |               |     |
| FF-008-P4X8B                                                                                                                |                       |                         | 0 - .031 (0 - 0.8)      |            |                       |                         |               |     |
| FF-009-P4X6B                                                                                                                |                       | .55 (14)                | .031 - .079 (0.8 - 2)   | .35 (9)    | .59 (15)              |                         |               |     |
| FF-009-P4X7B                                                                                                                |                       |                         | .083 - .118 (2.1 - 3)   |            |                       |                         |               |     |
| FF-009-P4X8B                                                                                                                |                       |                         | .039 - .079 (1 - 2)     |            |                       |                         |               |     |
| FF-010-P4X7B                                                                                                                | .079 - .118 (2 - 3.1) |                         |                         |            |                       |                         |               |     |
| FF-010-P4X8B                                                                                                                | .39 (10)              | .020 - .047 (0.5 - 1.2) | .16 (4)                 | .43 (10.8) | .315 - .319 (8 - 8.1) |                         |               |     |
| FF-013-P3.5X4.5B                                                                                                            |                       | .047 - .079 (1.2 - 2)   |                         |            |                       |                         |               |     |
| FF-013-P3.5X5.5B                                                                                                            |                       | .059 - .087 (1.5 - 2.2) |                         |            |                       |                         |               |     |
| FF-013-P3.5X6.0B                                                                                                            |                       | .098 - .126 (2.5 - 3.2) |                         |            |                       |                         |               |     |
| FF-013-P3.5X7.0B                                                                                                            |                       |                         |                         |            |                       |                         |               |     |
| NEW FF-026-M40                                                                                                              | UL94 HB TPR, RMS-416  | .71 (18)                | .020 - .047 (0.5 - 1.2) | .71 (18)   | .79 (20)              |                         | 1,000         | 3   |

Fig. 3



WITH RIVET PIN

## SFF Soft Fast Foot

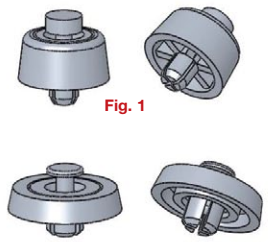
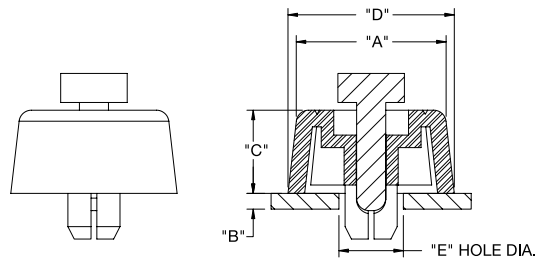
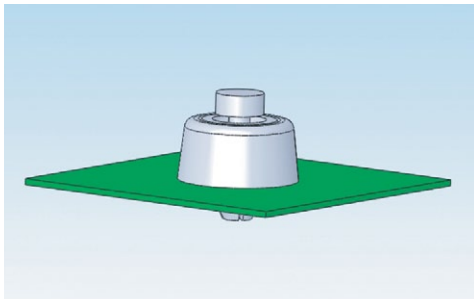


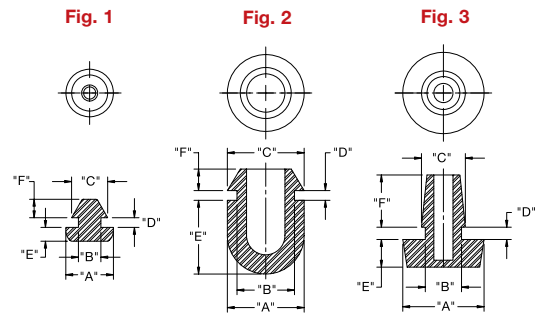
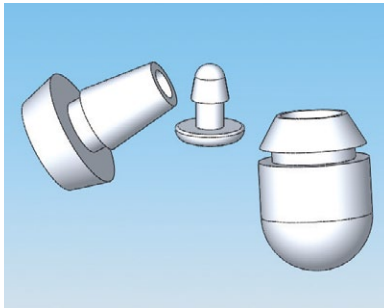
Fig. 1

Fig. 2

| Mat'l: Foot: TPE, 86 Shore A, RMS-42; Pin: Polypropylene, RMS-126 |                   |                            |          |          |          |      |
|-------------------------------------------------------------------|-------------------|----------------------------|----------|----------|----------|------|
| Color: Black                                                      |                   | Standard Pack: 100 per bag |          |          |          |      |
| Part No.                                                          | "E" Hole Diameter | "B" Panel Thickness        | "A" Ref. | "C" Ref. | "D" Ref. | Fig. |
| SFF-018                                                           | .305 (7.75)       | .031 - .059 (0.8 - 1.5)    | .71 (18) | .39 (10) | .79 (20) | 1    |
| SFF-021                                                           |                   | .197 - .315 (5 - 8)        | .79 (20) | .24 (6)  | .83 (21) |      |
| SFF-023                                                           |                   | .031 - .059 (0.8 - 1.5)    | .91 (23) | .20 (5)  | .98 (25) | 2    |
| SFF-028                                                           |                   |                            | .71 (18) | .59 (15) | .79 (20) | 1    |

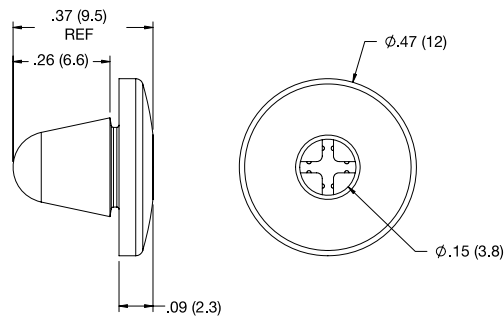
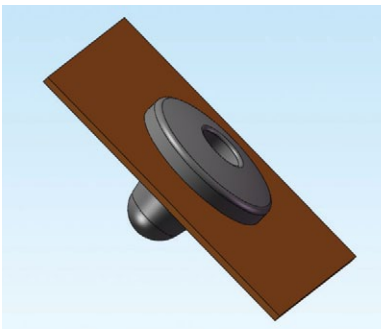
# MOTION CONTROL, BUMPERS & FEET

## POF Push on Feet



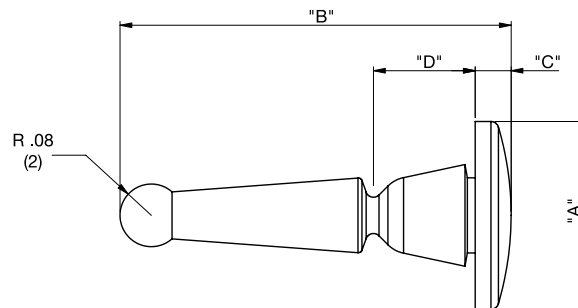
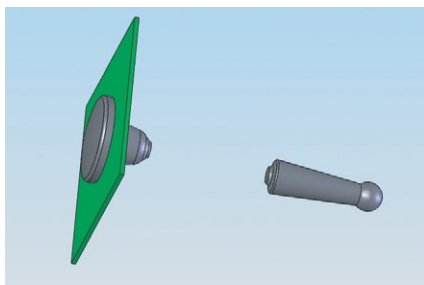
| Material: UL94 HB TPE, RMS-262 Color: Black |                           |                             | Standard Pack: 100 per bag |            |            |           |            |           |      |
|---------------------------------------------|---------------------------|-----------------------------|----------------------------|------------|------------|-----------|------------|-----------|------|
| Part No.                                    | Recommended Mounting Hole | Recommended Panel Thickness | "A" Dia.                   | "B" Dia.   | "C" Dia.   | "D"       | "E"        | "F" Ref.  | Fig. |
| POF-40022                                   | .146 - .150 (3.7-3.8)     | .126 (3.2)                  | .31 (7.9)                  | .126 (3.2) | .17 (4.4)  | .13 (3.3) | .06 (1.6)  | .13 (3.3) | 1    |
| POF-40048                                   | .177 - .181 (4.5-4.6)     | .059 (1.5)                  |                            | .146 (3.7) | .24 (6.1)  | .06 (1.6) | .09 (2.3)  | .12 (3)   |      |
| POF-40059                                   | .374 - .378 (9.5-9.6)     |                             | .50 (12.7)                 | .374 (9.5) | .50 (12.7) |           | .48 (12.2) | .14 (3.6) | 2    |
| POF-50185                                   | .236 - .240 (6-6.1)       | .075 (1.9)                  | .53 (13.4)                 | .236 (6)   | .29 (7.3)  | .08 (2)   | .18 (4.6)  | .34 (8.6) | 3    |
| POF-12664                                   | .276 - .280 (7-7.1)       | .047 (1.2)                  | .62 (15.7)                 | .276 (7)   | .34 (8.6)  | .05 (1.3) | .20 (5.1)  | .16 (4.1) |      |

## BIB-1 Blind Install Bumper



| Material: Silicone Rubber, 45 Shore A, RMS-364 Color: Black                         |                     |                         |               |
|-------------------------------------------------------------------------------------|---------------------|-------------------------|---------------|
| Part No.                                                                            | Mounting Hole       | Panel Thickness         | Standard Pack |
| BIB-1                                                                               | .197 - .212 (5-5.4) | .024 - .031 (1.6 - 0.8) | 1,000 per bag |
| Installed with a #1 Phillips Screwdriver or 1/8 (3.2) Dia. or smaller blunt end rod |                     |                         |               |

## BAB Break-Away Bumper



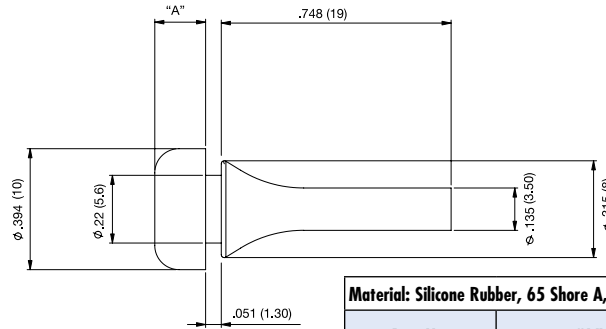
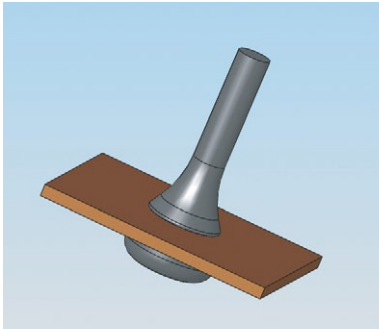
### Features

- Mounting tab designed to break-away after assembly to save space

| Color: Black |          |          |           |           |                         |                       | Standard Pack: 1,000 per bag         |
|--------------|----------|----------|-----------|-----------|-------------------------|-----------------------|--------------------------------------|
| Part No.     | "A"      | "B"      | "C"       | "D"       | Panel Thickness         | Hole Diameter         | Material                             |
| BAB-1        | .47 (12) | .98 (25) | .09 (2.3) | .26 (6.5) | .024 - .031 (0.6 - 0.8) | .197 - .213 (5 - 5.4) | Silicone Rubber, 40 Shore A, RMS-316 |
| NEW BAB-2    |          |          |           |           |                         |                       | Silicone Rubber, 50 Shore A, RMS-364 |
| NEW BAB-3    | .39 (10) | .79 (20) | .08 (2)   | .16 (4.3) | .020 (0.5)              | .185 - .197 (4.7-5)   |                                      |

# MOTION CONTROL, BUMPERS & FEET

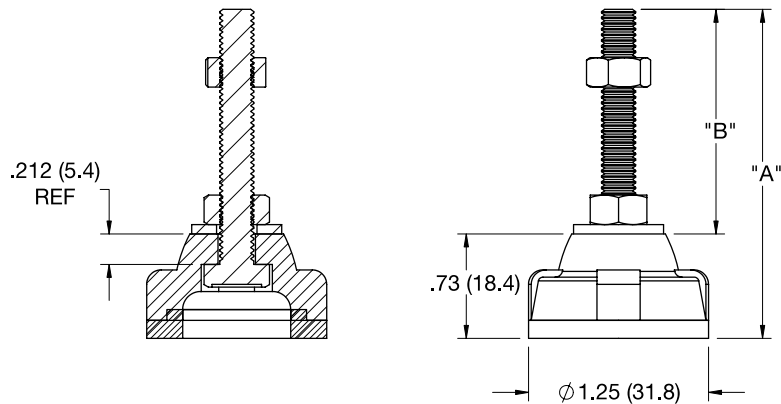
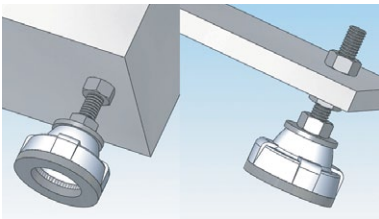
## BPM Pull Mount Bumper



| Material: Silicone Rubber, 65 Shore A, RMS-321 |            | Standard Pack: 1,000 per bag |                         |                 |
|------------------------------------------------|------------|------------------------------|-------------------------|-----------------|
| Part No.                                       | "A"        | Color                        | Hole Dia.               | Panel Thickness |
| BPM-1                                          | .118 (3)   | Grey                         | .24 - .25<br>(6 - 6.35) | .059 (1.5)      |
| BPM-2                                          | .165 (4.2) | Black                        |                         |                 |
| BPM-3                                          | .196 (5)   |                              |                         |                 |

NEW

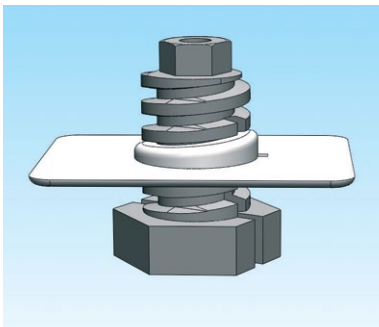
## LLF Leg Leveling Foot



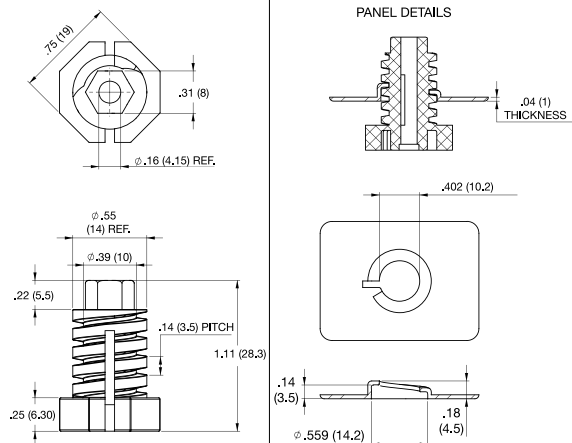
| Foot Material: TPE, RMS-262 and PP, RMS-150A Co-molded Color: Black;<br>Hardware: M6 Bolt & Nut, Stainless Steel, RMS-370; All other hardware, Stainless Steel, RMS-369 |             |             |                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------|
| Standard Pack: 40 per Bag                                                                                                                                               |             |             |                                                                               |
| Part No.                                                                                                                                                                | "A" Ref.    | "B" Ref.    | Part Assembly Includes                                                        |
| LLF-1                                                                                                                                                                   | 2.28 (58)   | 1.56 (39.6) | M6x45 Hex Bolt (x1); M6 Hex Nuts (x2); 1/2x0.04 - 0.05 Washer (x1)            |
| LLF-2                                                                                                                                                                   | 2.26 (57.5) | 1.54 (39.1) | 1/4-20x1-3/4 Hex Bolt (x1); 1/4-20 Hex Nuts (x2); 5/8x0.04 - 0.05 Washer (x1) |
| LLF-3                                                                                                                                                                   | -           | -           | Foot Only (No Hardware Included)                                              |
| Max. Load 56.2 Lbs. (25.5 Kg.)                                                                                                                                          |             |             |                                                                               |

NEW

## LF-1 Leveling Foot



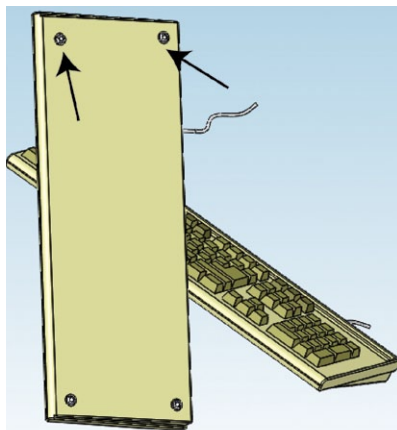
NEW



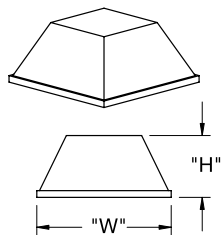
| Material: Glass-Filled UL 94 V0 Nylon, RMS-18 |               |       |
|-----------------------------------------------|---------------|-------|
| Part No.                                      | Standard Pack | Color |
| LF-1                                          | 250           | Black |

# MOTION CONTROL, BUMPERS & FEET

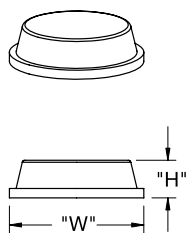
## RBS Bumpers



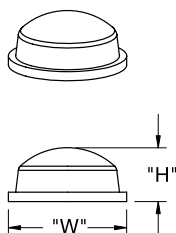
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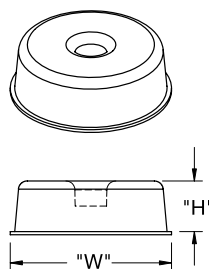
Type 1



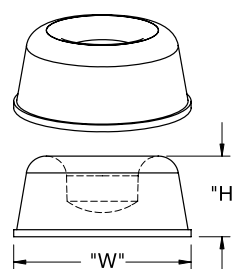
Type 2



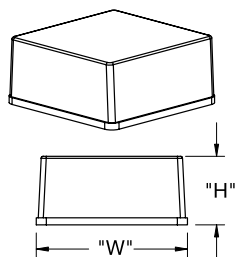
Type 3



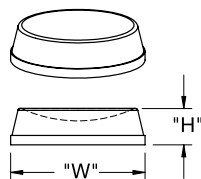
Type 4



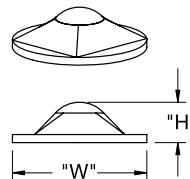
Type 5



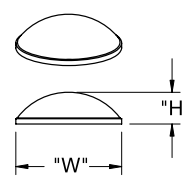
Type 6



Type 7



Type 8



Type 9

| Mat'l: Polyurethane, RMS-64; Adhesive: Rubber, RMS-68 Color: Clear and Black*.<br>To order black, add BK to the end of the part number |             |            |                                         |                   |                 |       |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-----------------------------------------|-------------------|-----------------|-------|
| Part No.                                                                                                                               | Dia. "W"    | Height "H" | 6x12 Matrix kiss cut pad.<br>Pieces/pad | Type              | Carton Quantity |       |
| RBS-20                                                                                                                                 | .40 (10.2)  | .10 (2.5)  | 242                                     | 1 (Pyramid)       | 5,082           |       |
| RBS-3R                                                                                                                                 | .50 (12.7)  | .23 (5.8)  | 200                                     |                   | 5,000           |       |
| RBS-32R                                                                                                                                |             | .12 (3.1)  |                                         |                   | 2,940           |       |
| RBS-29                                                                                                                                 |             | .25 (6.4)  | 98                                      |                   | 2,646           |       |
| RBS-19                                                                                                                                 | .81 (20.5)  | .30 (7.6)  |                                         |                   | 6,000           |       |
| RBS-34                                                                                                                                 | .37 (9.5)   | .12 (3.1)  | 300                                     | 2 (Cylindrical)   | 5,000           |       |
| RBS-35                                                                                                                                 |             | .19 (4.8)  |                                         |                   |                 |       |
| RBS-1                                                                                                                                  | .50 (12.7)  | .14 (3.5)  | 200                                     |                   |                 |       |
| RBS-5                                                                                                                                  |             | .06 (1.6)  |                                         |                   |                 |       |
| RBS-6                                                                                                                                  |             | .25 (6.3)  |                                         |                   |                 |       |
| RBS-11                                                                                                                                 |             | .40 (10.1) |                                         |                   |                 | 128   |
| RBS-44                                                                                                                                 | .75 (19.1)  | .16 (4.1)  | 98                                      |                   |                 | 2,450 |
| RBS-41                                                                                                                                 | .78 (20.0)  | .20 (5.1)  | 84                                      |                   |                 | 3,360 |
| RBS-24                                                                                                                                 | .81 (20.5)  | .12 (3.1)  | 72                                      |                   |                 | 2,520 |
| RBS-72                                                                                                                                 | 1.24 (31.5) | .10 (2.5)  | 32                                      |                   |                 | 2,400 |
| RBS-40                                                                                                                                 | .25 (6.4)   | .06 (1.6)  | 578                                     | 3 (Dome)          | 15,028          |       |
| RBS-27                                                                                                                                 | .31 (7.9)   | .08 (2.2)  | 450                                     |                   | 9 (Dome)        | 5,400 |
| RBS-7                                                                                                                                  | .335 (8.6)  | .085 (2.2) |                                         |                   |                 |       |
| RBS-12                                                                                                                                 | .38 (9.6)   | .15 (3.8)  | 72                                      | 3 (Dome)          | 7,200           |       |
| RBS-22                                                                                                                                 |             | .21 (5.4)  | 300                                     |                   | 6,000           |       |
| RBS-2                                                                                                                                  | .44 (11.1)  | .20 (5.1)  | 242                                     |                   | 5,082           |       |
| RBS-15                                                                                                                                 | .62 (16.0)  | .31 (7.9)  | 128                                     |                   | 3,200           |       |
| RBS-8                                                                                                                                  | .70 (17.6)  | .38 (9.6)  | 98                                      |                   | 2,254           |       |
| RBS-37                                                                                                                                 | .72 (18.3)  | .56 (14.2) | 100 separate parts                      |                   | 1,500           |       |
| RBS-39                                                                                                                                 | .75 (19.1)  | .07 (1.9)  | 84                                      |                   | 5,040           |       |
| RBS-30                                                                                                                                 | 1.8 (45.7)  | .60 (15.8) | 100 separate parts                      | 4 (Round)         | 500             |       |
| RBS-17                                                                                                                                 | .88 (22.3)  | .40 (10.1) | 72                                      | 5 (Round)         | 1,440           |       |
| RBS-4                                                                                                                                  | .75 (19.8)  | .34 (9.7)  | 100 separate parts                      | 6 (Square)        | 5,600           |       |
| RBS-36                                                                                                                                 | 1.00 (25.4) | .18 (4.7)  | 55                                      |                   | 2,310           |       |
| RBS-18                                                                                                                                 | .50 (12.7)  | .14 (3.5)  | 200                                     | 7 (Round)         | 5,000           |       |
| *RBS-33SD                                                                                                                              |             | .15 (3.8)  |                                         | 8 (Round-pyramid) |                 |       |
| *RBS-10                                                                                                                                | .39 (10)    | .12 (3)    | 288                                     | 9 (Domes)         | 7,200           |       |
| Brown "BN", white "WH", or grey "GY" available by special order only.                                                                  |             |            |                                         |                   |                 |       |
| *Available in clear color only                                                                                                         |             |            |                                         |                   |                 |       |

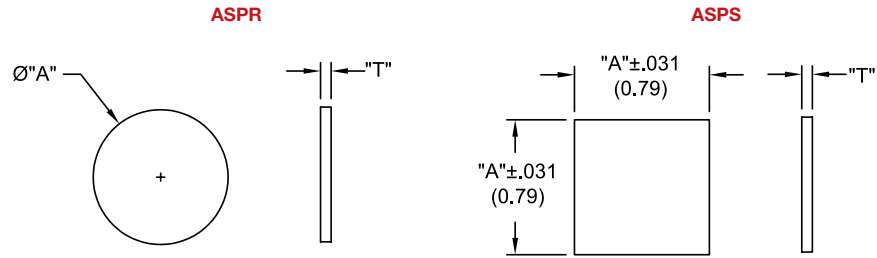
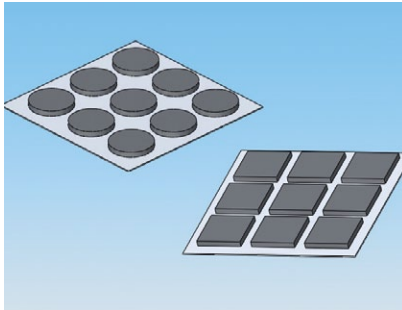
NEW

Brown "BN", white "WH", or grey "GY" available by special order only.

\*Available in clear color only

# MOTION CONTROL, BUMPERS & FEET

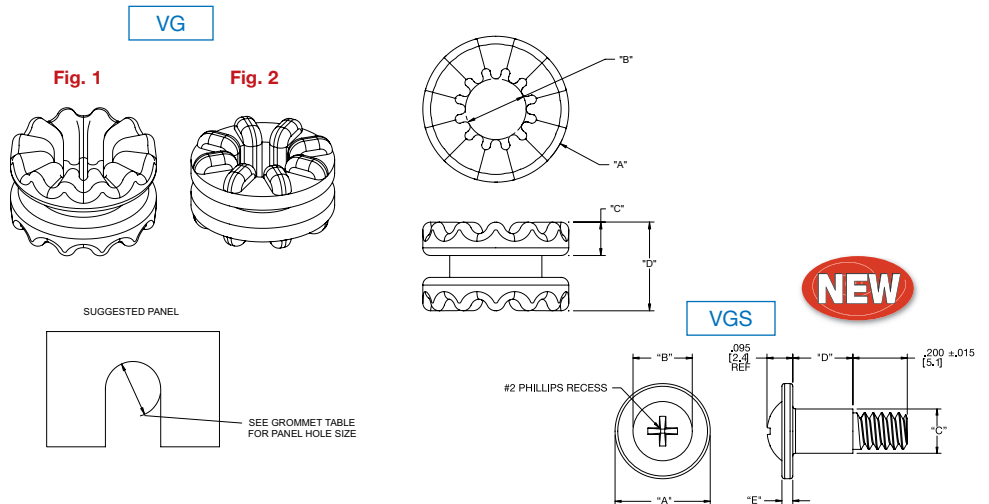
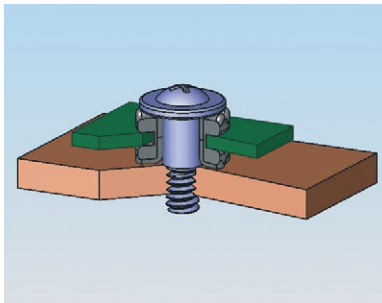
## ASPR/ASPS Anti Slip Pads



| Mat'l: Polyethylene Foam with Rubber Adhesive |             |            |                       |                  |
|-----------------------------------------------|-------------|------------|-----------------------|------------------|
| Color: Black                                  |             |            |                       |                  |
| Part Number                                   | "A"         | "T"        | Standard Pack         | Material Details |
| ASPR-8-062                                    | .50 (12.7)  | .062 (1.6) | 1,000 pieces per roll | RMS-128          |
| ASPR-12-062                                   | .75 (19.1)  |            |                       |                  |
| ASPR-16-062                                   | 1.00 (25.4) |            |                       |                  |
| ASPR-8-125                                    | .50 (12.7)  | .125 (3.2) | 40/pad                | RMS-129          |
| ASPR-12-125                                   | .75 (19.1)  |            |                       |                  |
| ASPR-16-125                                   | 1.00 (25.4) |            |                       |                  |
| ASPS-8-062                                    | .50 (12.7)  | .062 (1.6) | 20/pad                | RMS-128          |
| ASPS-12-062                                   | .75 (19.1)  |            | 8/pad                 |                  |
| ASPS-16-062                                   | 1.00 (25.4) |            | 40/pad                |                  |
| ASPS-8-125                                    | .50 (12.7)  | .125 (3.2) | 20/pad                | RMS-129          |
| ASPS-12-125                                   | .75 (19.1)  |            | 8/pad                 |                  |
| ASPS-16-125                                   | 1.00 (25.4) |            |                       |                  |

## VG/VGS

### Vibration Grommet and Screw



| Material: SBR, 60 Shore A, RMS-190 Color: Black |             |            |                 |                 |               |               |      |
|-------------------------------------------------|-------------|------------|-----------------|-----------------|---------------|---------------|------|
| Standard Pack: 1,000 per bag                    |             |            |                 |                 |               |               |      |
| Part No.                                        | Dim. "A"    | Dim. "B"   | Panel Thickness | Panel Hole Size | Dim. "C" Typ. | Dim. "D" Ref. | Fig. |
| VG-1                                            | .380 (9.7)  | .158 (4)   | .057 (1.45)     | .250 (6.35)     | .087 (2.2)    | .231 (5.9)    | 1    |
| VG-2                                            | .565 (14.4) | .188 (4.8) | .063 (1.60)     | .375 (9.53)     | .131 (3.3)    | .324 (8.2)    |      |
| VG-3                                            | .380 (9.7)  | .158 (4)   | .031 (0.79)     | .250 (6.35)     | .100 (2.5)    | .231 (5.9)    |      |
| VG-4                                            | .565 (14.4) | .188 (4.8) | .043 (1.09)     | .375 (9.53)     | .141 (3.6)    | .324 (8.2)    |      |
| VG-5                                            | .374 (9.5)  | .142 (3.6) | .055 (1.4)      | .217 (5.5)      | .083 (2.1)    | .217 (5.5)    | 2    |

| Material: 1022 Carbon Steel, RMS-352, Finish: Zinc Plate, RMS-354 |                  |                           |             |            |            |            |            |
|-------------------------------------------------------------------|------------------|---------------------------|-------------|------------|------------|------------|------------|
| Standard Pack: 1,000 per bag                                      |                  |                           |             |            |            |            |            |
| Part No.                                                          |                  | Use With Grommet Part No. | "A"         | "B" Ref.   | "C"        | "D"        | "E"        |
| Thread: 6-32 UNC-2A                                               | Thread: M3 X 0.5 |                           |             |            |            |            |            |
| VGS-1                                                             | VGS-4            | VG-1, VG-3                | .350 (8.9)  | .218 (5.5) | .163 (4.1) | .205 (5.2) | .050 (1.3) |
| VGS-2                                                             | VGS-5            | VG-2, VG-4                | .500 (12.7) | .320 (8.1) | .194 (4.9) | .290 (7.4) | .040 (1)   |
| VGS-3                                                             | VGS-6            | VG-5                      | .350 (8.9)  | .218 (5.5) | .146 (3.7) | .195 (5)   | .050 (1.3) |

VG Grommets are sold separately.



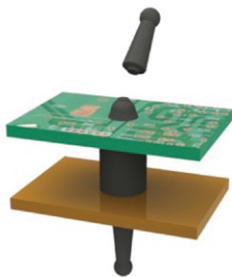
# MOTION CONTROL, BUMPERS & FEET

## CBSPM

Pull Mount Circuit Board Support

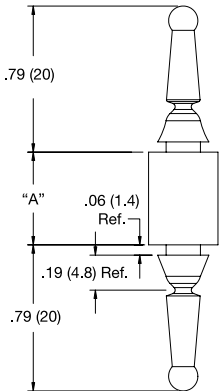


Top Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .094 (2.4) Max



### Features

- Once installed, the ends are easily cut off.



Bottom Hole: Snap-lock: .187 (4.75)  
Panel Thickness: .094 (2.4) Max

| Material: EPDM, 45 Shore A, RMS-178 Color: Black |                        |
|--------------------------------------------------|------------------------|
| Standard Pack: 1,000 per bag                     |                        |
| Part No.                                         | "A"<br>Standoff Height |
| CBSPM-4                                          | .250 (6.35)            |
| CBSPM-6                                          | .375 (9.53)            |
| CBSPM-8                                          | .500 (12.7)            |
| CBSPM-10                                         | .625 (15.88)           |
| CBSPM-12                                         | .750 (19.05)           |

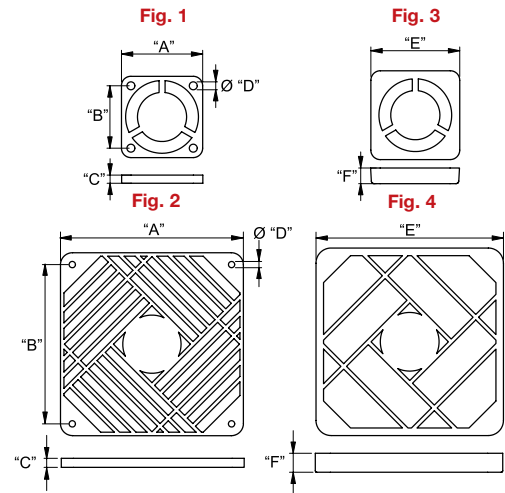
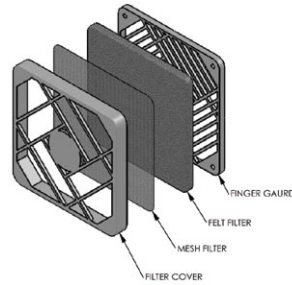
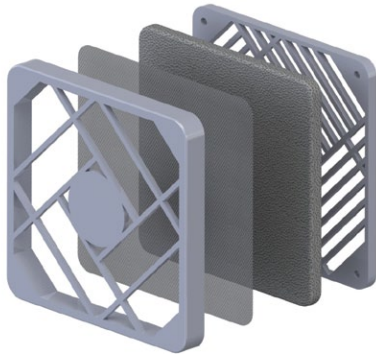
D

## Notes

D

## RCP/RFG/RFC/RFF/RMF

### Fan Filters

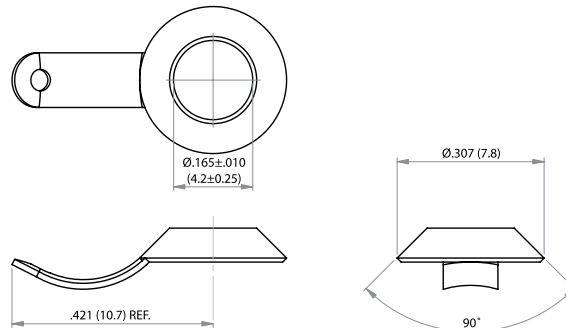
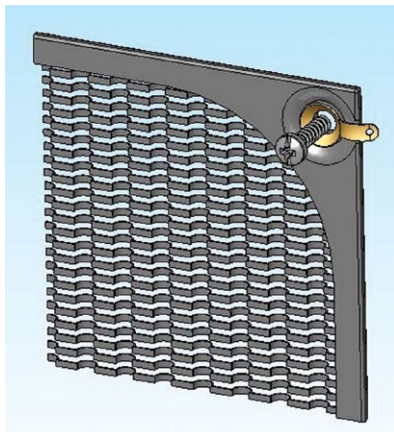


### Features

- Filter set (RCP) provides IP30 protection

| *Filter Set Part No.                                                                                                                                                                      | Finger Guard               |                            |                            |                            |                            | Filter Cover (not sold separately, reference only) |                       |             |            |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------------------------|-----------------------|-------------|------------|------|
|                                                                                                                                                                                           | Finger Guard Part No.      | "A"                        | "B"                        | "C"                        | "D" Hole Ø Min.            | Fig.                                               | Filter Cover Part No. | "E"         | "F"        | Fig. |
| RCP-040-T                                                                                                                                                                                 | RFG-040-T                  | 1.69 (43)                  | 1.27 (32.2)                | .17 (4.3)                  | .16 (4.1)                  | 1                                                  | RFC-040-T             | 1.83 (46.5) | .33 (8.4)  | 3    |
| RCP-060-T                                                                                                                                                                                 | RFG-060-T                  | 2.38 (60.5)                | 1.97 (50.1)                | .24 (6)                    |                            | 2                                                  | RFC-060-T             | 2.56 (64.9) | .49 (12.5) | 4    |
| RCP-080-T                                                                                                                                                                                 | RFG-080-T                  | 3.17 (80.6)                | 2.83 (71.8)                |                            |                            |                                                    | RFC-080-T             | 3.34 (84.8) |            |      |
| RCP-092-T                                                                                                                                                                                 | RFG-092-T                  | 3.63 (92.3)                | 3.24 (82.4)                |                            |                            |                                                    | RFC-092-T             | 3.81 (96.9) |            |      |
| RCP-120-T                                                                                                                                                                                 | RFG-120-T                  | 4.75 (120.6)               | 4.15 (105.5)               |                            |                            |                                                    | .24 (6.2)             | RFC-120-T   |            |      |
| *Filter Set includes finger guard, filter cover, mesh filter and felt filter                                                                                                              |                            |                            |                            |                            |                            |                                                    |                       |             |            |      |
| Material: Filter Cover & Guard: Nylon 6/6 25% Glass Filled UL94 V0, RMS-27 Color: Black;<br>Felt Filter: Polyester, RMS-28 Color: White;<br>Mesh Filter: Stainless Steel AISI 304, RMS-29 |                            |                            |                            |                            |                            |                                                    |                       |             |            |      |
|                                                                                                                                                                                           | 40 x 40                    | 60 x 60                    | 80 x 80                    | 92 x 92                    | 120 x 120                  |                                                    |                       |             |            |      |
| Finger Guard Only                                                                                                                                                                         | RFG-040-T<br>(160 per Bag) | RFG-060-T<br>(60 per Bag)  | RFG-080-T<br>(30 per Bag)  | RFG-092-T<br>(20 per Bag)  | RFG-120-T<br>(30 per Bag)  |                                                    |                       |             |            |      |
| *Filter Set                                                                                                                                                                               | RCP-040-T<br>(50 per Box)  | RCP-060-T<br>(20 per Box)  | RCP-080-T<br>(10 per Box)  | RCP-092-T<br>(10 per Box)  | RCP-120-T<br>(10 per Box)  |                                                    |                       |             |            |      |
| Felt Filter Only                                                                                                                                                                          | RFF-040-T<br>(300 per Bag) | RFF-060-T<br>(100 per Bag) | RFF-080-T<br>(100 per Bag) | RFF-092-T<br>(100 per Bag) | RFF-120-T<br>(500 per Bag) |                                                    |                       |             |            |      |
| Mesh Filter Only                                                                                                                                                                          | RMF-040-T<br>(300 per Bag) | RMF-060-T<br>(500 per Bag) | RMF-080-T<br>(400 per Bag) | RMF-092-T<br>(400 per Bag) | RMF-120-T<br>(250 per Bag) |                                                    |                       |             |            |      |
| Available by special order only.                                                                                                                                                          |                            |                            |                            |                            |                            |                                                    |                       |             |            |      |

## FG-1 Grounding Finger

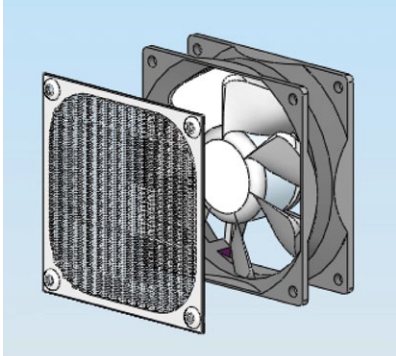


### Features

- Helps to eliminate static electricity that is created when air passes through a metallic filter

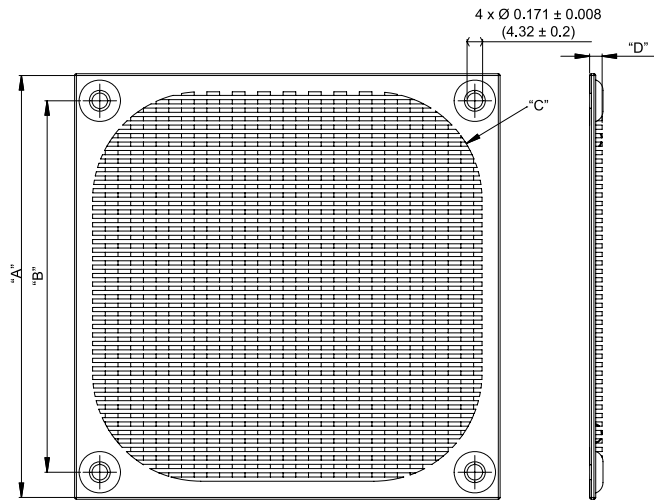
| FG-1                                                          |
|---------------------------------------------------------------|
| Material: .01 (0.3) Thick Brass, RMS-373; Tin Plated, RMS-246 |
| Standard Pack: 1,000 per bag                                  |

## MFF Metal Frame Filter



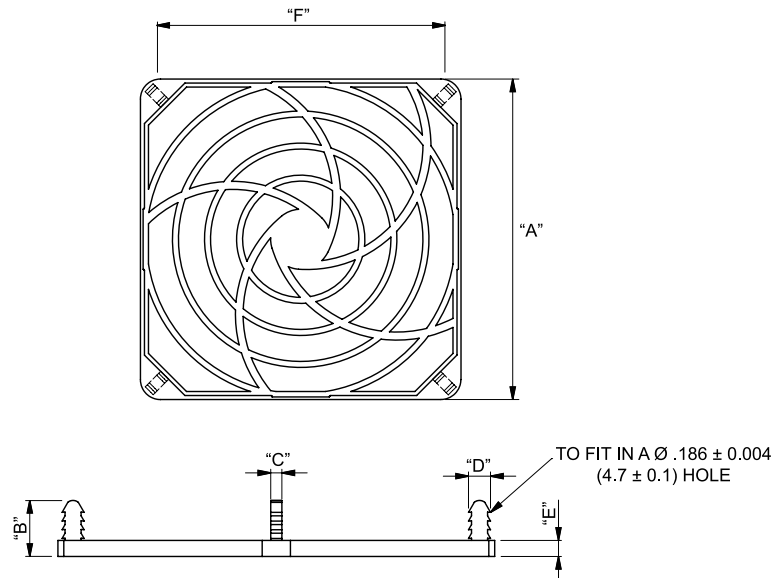
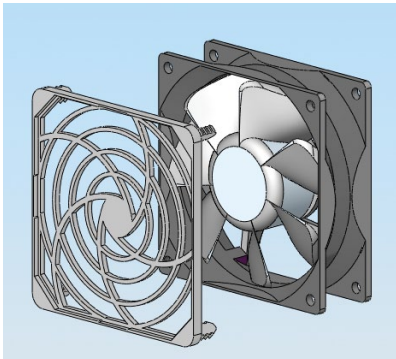
### Features

- Provides EMI & RFI protection



| Material: Frame-Aluminum 1060,<br>RMS-247; Mesh-Stainless Steel 304, RMS-283 |                 |                | Standard Pack: 100 per bag |                 |
|------------------------------------------------------------------------------|-----------------|----------------|----------------------------|-----------------|
| Part No.                                                                     | "A" ± 0.039 (1) | "B"            | "C"                        | "D" ± 0.039 (1) |
| MFF-60                                                                       | 2.33 (59.2)     | 1.969 (50)     | R0.296 (7.5)               | 0.157 (4)       |
| MFF-80                                                                       | 3.30 (83.82)    | 2.810 (71.37)  | R0.394 (10)                | 0.137 (3.5)     |
| MFF-92                                                                       | 3.63 (92)       | 3.249 (82.5)   | R0.493 (12.5)              | 0.157 (4)       |
| MFF-120                                                                      | 4.68 (118.87)   | 4.125 (104.77) | R0.985 (25)                | 0.137 (3.5)     |
| Wire Ø: .009 (.23), Mesh Size: 30 Strands/1" (25.4)                          |                 |                |                            |                 |

## FGPT Fan Guard



| Mat'l: ABS, RMS-171 Color: Black |             |             |            |            |             |             |               |
|----------------------------------|-------------|-------------|------------|------------|-------------|-------------|---------------|
| Part No.                         | "A"         | "B"         | "C"        | "D"        | "E"         | "F" Ref.    | Standard Pack |
| FGPT-80                          | 3.150 (80)  | .571 (14.5) | .110 (2.8) | .217 (5.5) | .158 (4)    | 2.795 (71)  | 20            |
| FGPT-92                          | 3.622 (92)  | .591 (15)   | .102 (2.6) |            | .163 (4.15) | 3.228 (82)  |               |
| FGPT-120                         | 4.685 (119) | .650 (16.5) | .118 (3)   |            | .177 (4.5)  | 4.094 (104) |               |

# FAN ACCESSORIES

## RCOFM Fan Guards

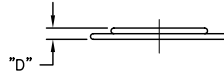
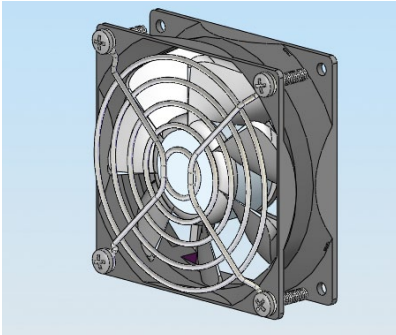


Fig. 1

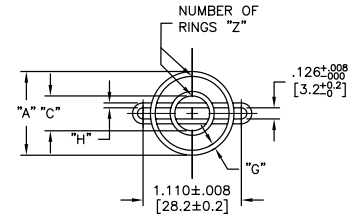


Fig. 2

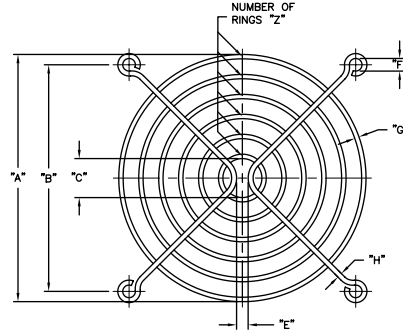
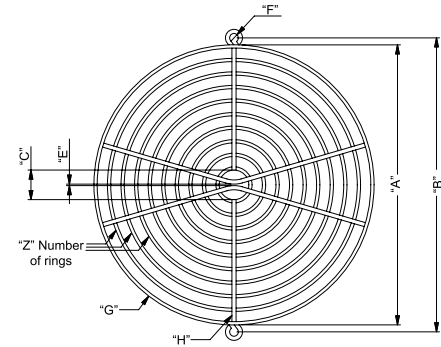
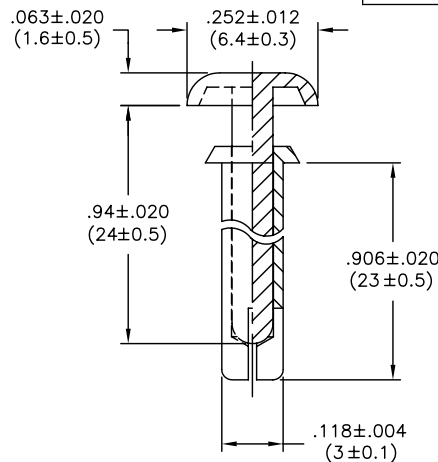
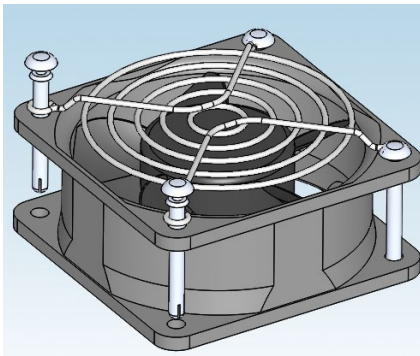


Fig. 3



| Mat'l: Steel Wire Electroplated, RMS-261; Nickel Chrome Finish, RMS-229 |                |                |             |             |            |            | Standard Pack: 100 per bag |            |     |      |
|-------------------------------------------------------------------------|----------------|----------------|-------------|-------------|------------|------------|----------------------------|------------|-----|------|
| Part No.                                                                | "A"            | "B"            | "C"         | "D"         | "E"        | "F"        | "G"                        | "H"        | "Z" | Fig. |
| RCOFM-25                                                                | .94 (2.4)      | —              | .41 (10.5)  | .09 (2.2)   | —          | —          | .055 (1.4)                 | .055 (1.4) | 2   | 1    |
| RCOFM-40                                                                | 1.15 (29.1)    | 1.26 (32)      | .56 (14.2)  | .19 (4.8)   | .16 (4)    | .16 (4)    | .06 (1.6)                  | .06 (1.6)  | 3   | 2    |
| RCOFM-50                                                                | 1.65 (42)      | 1.62 (41.1)    |             | .17 (4.4)   | .15 (3.7)  | .18 (4.6)  |                            |            | 4   |      |
| RCOFM-60                                                                | 2.09 (53.2)    | 1.97 (50)      |             | .19 (4.9)   | .14 (3.5)  | .20 (5.2)  |                            |            | 5   |      |
| RCOFM-80                                                                | 3.00 (76.2)    | 2.81 (71.5)    |             | .22 (5.5)   | .17 (4.2)  | .18 (4.6)  |                            |            | 6   |      |
| RCOFM-92                                                                | 3.54 (90)      | 3.25 (82.5)    |             | .10 (2.6)   | .10 (2.6)  | .18 (4.6)  |                            |            | 8   |      |
| RCOFM-120                                                               | 4.55 (115.6)   | 4.16 (104.8)   | .35 (9)     |             |            |            | .07 (1.8)                  | .07 (1.8)  |     | 3    |
| RCOFM-150-A                                                             | 6.080 (154.43) | 6.380 (162.05) | .642 (16.3) | .254 (6.45) | .32 (0.81) | .19 (4.83) |                            |            | 10  |      |

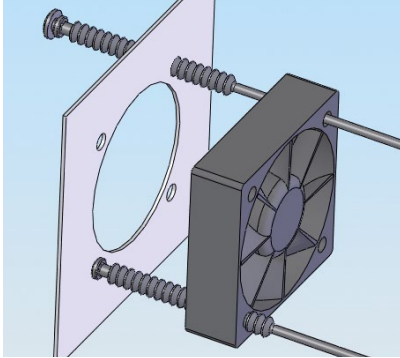
## SR-3230B Snap Rivet (Long)



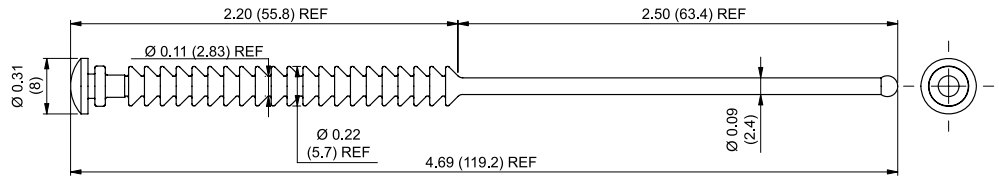
Material: Nylon 6, RMS-52 • Color: Black

| Part No. | Standard Pack: 1,000 per bag |                       |                      |
|----------|------------------------------|-----------------------|----------------------|
|          | Mounting Hole Dia.           | Panel Thickness       | Extraction Force     |
| SR-3230B | .122-.126 (3.1-3.2)          | .807-.847 (20.5-21.5) | 17.6 lbs. (8kg) min. |

## FMM Multi Fan Mount



Patent Pending



Material: Silicone Rubber 40 Shore A, RMS-316, Color: Black

Standard Pack: 500 per bag

| Part No. | Fan Thickness        | Fan Hole Diameter       | Panel Thickness       | Panel Hole Diameter     |
|----------|----------------------|-------------------------|-----------------------|-------------------------|
| FMM-1    | .39 - 2.00 (10 - 51) | .126 - .177 (3.2 - 4.5) | .039 - .059 (1 - 1.5) | .177 - .189 (4.5 - 4.8) |

## FMB Break-Away Fan Mount

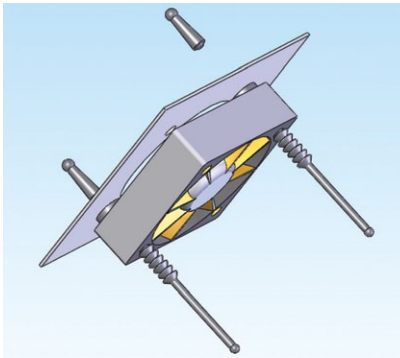


Fig. 1

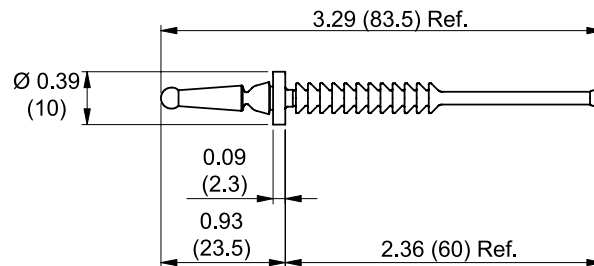
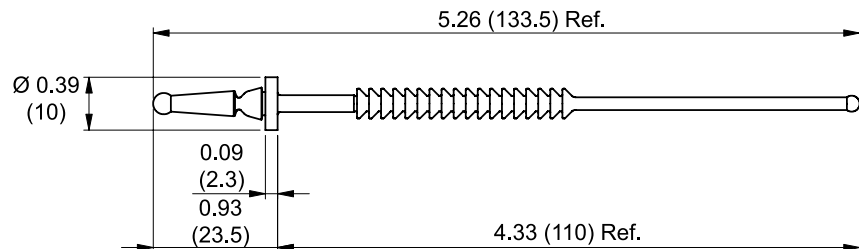


Fig. 2



Material: Silicone Rubber 40 Shore A, RMS-316, Color: Black

Standard Pack: 1,000 per bag

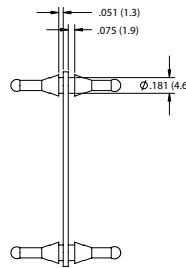
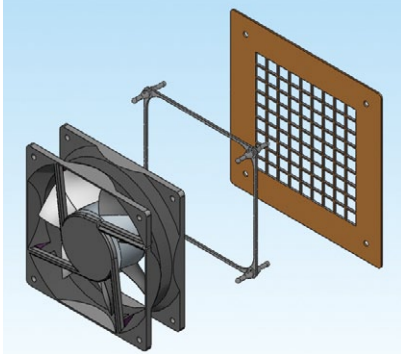
| Part No. | Panel Hole Ø      | Panel Thickness     | Fan Hole Ø          | Fan Thickness      | Fig. |
|----------|-------------------|---------------------|---------------------|--------------------|------|
| FMB-1    | .18-.20 (4.5 - 5) | .03-.06 (0.8 - 1.6) | .18-.20 (4 - 4.5)   | .98-2.01 (25 - 51) | 2    |
| FMB-2    |                   |                     | .13-.14 (3.2 - 3.5) | Up to .40 (10)     | 1    |
|          |                   |                     | .16-.18 (4 - 4.5)   | Up to .98 (25)     |      |



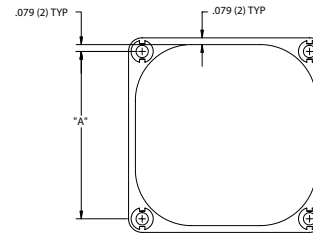
# FAN ACCESSORIES

## FMG

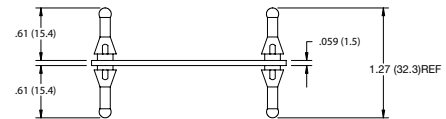
### Fan Mount Gasket



Fan Hole:  $.197 \pm .039$  ( $5 \pm 0.1$ )  
Fan Thickness:  $.079$  (2)



| <b>Material: EPDM Rubber 40 Shore A, RMS-180</b> |                  |
|--------------------------------------------------|------------------|
| <b>Color: Black</b>                              |                  |
| <b>Standard Pack: 100 per bag</b>                |                  |
| Part No.                                         | "A" As Assembled |
| FMG-1                                            | 1.969 (50)       |
| FMG-2                                            | 2.815 (71.5)     |
| FMG-3                                            | 4.142 (105.2)    |



Panel Hole:  $.197 \pm .039$  ( $5 \pm 0.1$ )  
Panel Thickness:  $.055$  (1.4)

## FM

### Fan Mounts

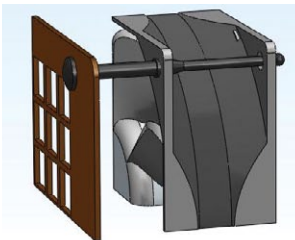
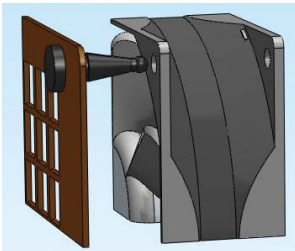
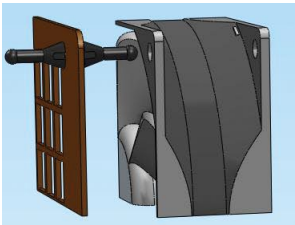


Fig. 1

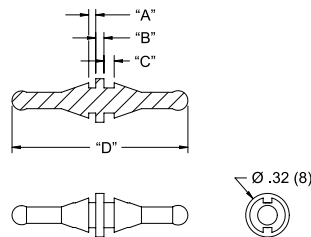


Fig. 2

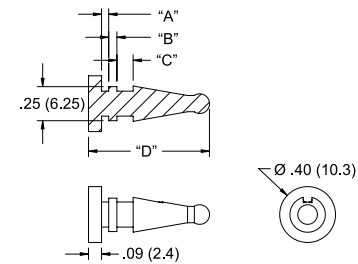


Fig. 3

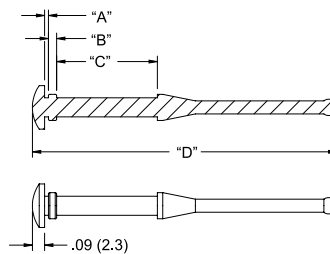
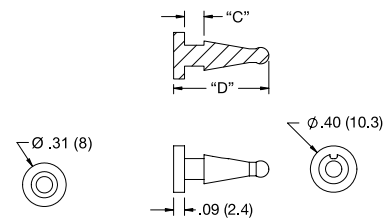


Fig. 4

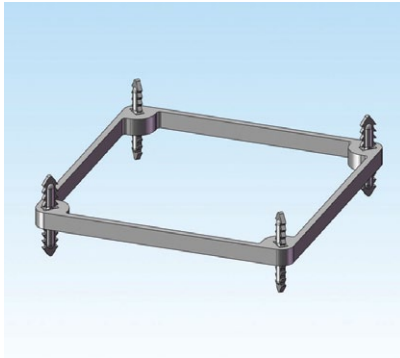


| Standard Pack: 1,000 per bag Color: Black |                                      |           |           |            |             |            |                      |                      |      |
|-------------------------------------------|--------------------------------------|-----------|-----------|------------|-------------|------------|----------------------|----------------------|------|
| Part No.                                  | Material                             | "A"       | "B"       | "C"        | "D"         | Hole Ø x 2 | Fan Thickness        | Max. Panel Thickness | Fig. |
| FM-1                                      | EPDM Rubber, 30 Shore A, RMS-166     | 0.5 (1.3) | .06 (1.5) | .07 (1.9)  | 1.27 (32.3) | .197 (5)   | .079 (2)             | .055 (1.4)           | 1    |
| FM-2                                      | EPDM Rubber, 40 Shore A, RMS-180     |           |           | .12 (3)    | .88 (22.2)  |            | .122 (3.1)           |                      | 2    |
| FM-3                                      | EPDM Rubber, 30 Shore A, RMS-166     |           |           | .73 (18.5) | 2.20 (56)   | .138 (3.5) | .787 (20)            | .031 (0.8)           | 3    |
| FM-4                                      | EPDM Rubber, 40 Shore A, RMS-180     |           |           | .10 (2.5)  | .08 (2)     | .55 (14)   | 2.12 (53.8)          | .161 (4.3)           |      |
| FM-5                                      | Silicone Rubber, 40 Shore A, RMS-316 | .03 (0.7) | .06 (1.5) | .94 (24)   | 2.87 (73)   | .138 (3.5) | .98 - 1.10 (25 - 28) | .031 (0.8)           |      |
| FM-6                                      | EPDM Rubber, 30 Shore A, RMS-166     | N/A       | N/A       | .17 (4.3)  | .83 (21)    | .197 (5)   | .213 (5.4) *         |                      | 4    |
| FM-7                                      | EPDM Rubber, 40 Shore A, RMS-180     |           |           |            |             |            |                      |                      |      |
| FM-8                                      | EPDM Rubber, 30 Shore A, RMS-166     |           |           |            |             |            |                      |                      |      |
| FM-9                                      | EPDM Rubber, 40 Shore A, RMS-180     |           |           |            |             |            |                      |                      |      |

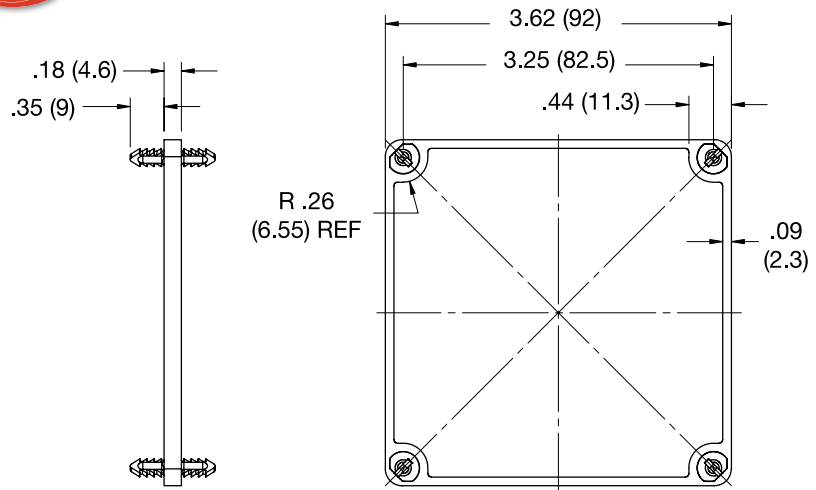
\* Total thickness of Panel and Fan combined

NEW  
NEW  
NEW

## FMPT Barbed Fan Mount



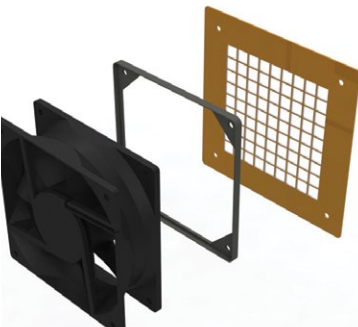
**NEW**



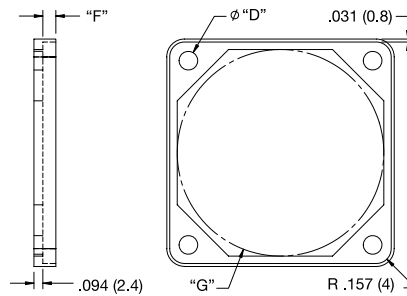
Mat'l: UL94 HB ABS, RMS-59 Color: Black

| Part No. | Mounting Hole Requirements                                 | Min. Panel Thickness | Standard Pack |
|----------|------------------------------------------------------------|----------------------|---------------|
| FMPT-92  | .177 (4.5) Dia. Holes with a Square Spacing of 3.25 (82.5) | .146 (3.7)           | 40            |

## FGA Fan Gasket



**NEW**

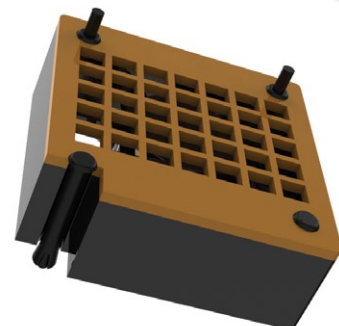


Material: Silicone Rubber, 40 Shore A, RMS-101 Color: Black

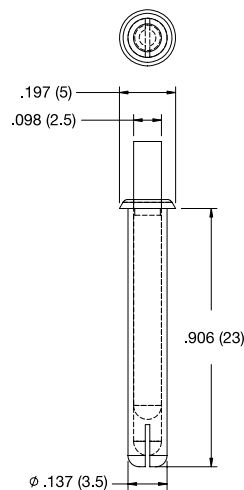
Standard Pack: 100 per bag

| Part No. | Fan Size   | Fan Hole Spacing | "D"       | "F"       |
|----------|------------|------------------|-----------|-----------|
| FGA-40   | 1.57 (40)  | 1.26 (32)        | .18 (4.5) | .14 (3.5) |
| FGA-50   | 1.97 (50)  | 1.57 (40)        |           |           |
| FGA-60   | 2.36 (60)  | 1.97 (50)        |           |           |
| FGA-70   | 2.76 (70)  | 2.42 (61.5)      |           |           |
| FGA-80   | 3.15 (80)  | 2.81 (71.5)      | .20 (5)   | .16 (4)   |
| FGA-92   | 3.62 (92)  | 3.25 (82.5)      |           |           |
| FGA-120  | 4.72 (120) | 4.13 (105)       |           |           |

## FR-1 Fan Mount Rivet



**NEW**

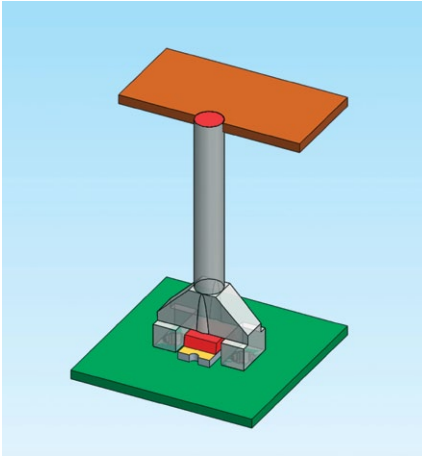


Material: UL94 V2 Nylon 6, RMS-52, Color: Black

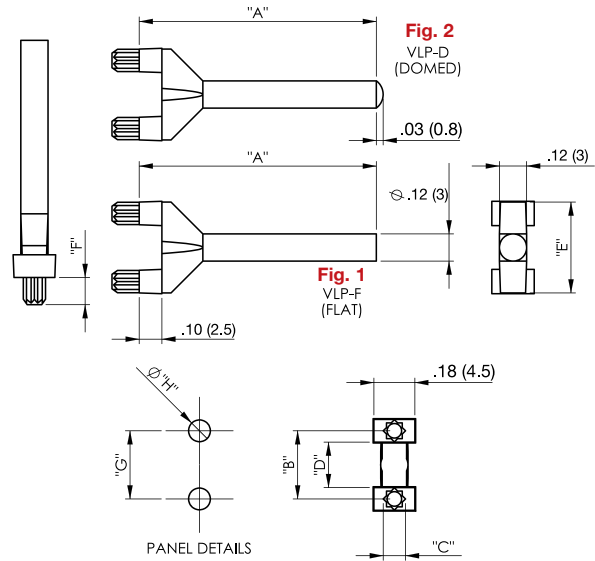
Standard Pack: 1,000 per bag

| Part No. | Panel Hole Ø          | Mounting Thickness    | Installation Tool |
|----------|-----------------------|-----------------------|-------------------|
| FR-1     | .137-.138 (3.49-3.51) | .807-.846 (20.5-21.5) | PPR-T1            |

## VLP Vertical Light Pipe

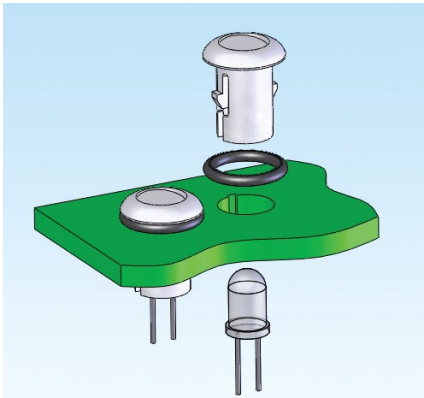


**NEW**

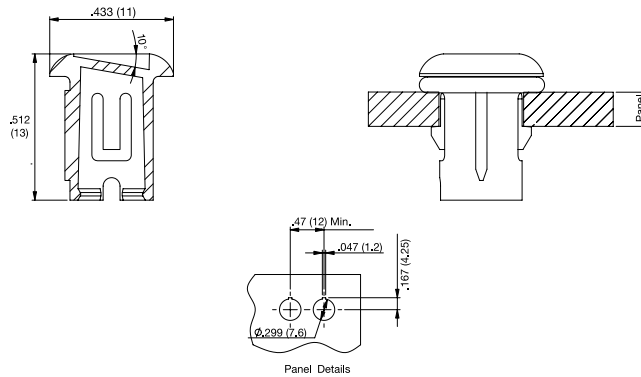


| Material: UL94 V0 Polycarbonate, RMS-23 Color: Clear |      |             |           |            |         | Standard pack: 1,000 per bag |           |           |                   |                 |
|------------------------------------------------------|------|-------------|-----------|------------|---------|------------------------------|-----------|-----------|-------------------|-----------------|
| Part No.                                             | Fig. | "A"         | "B"       | "C"        | "D"     | "E"                          | "F"       | "G"       | "H" ± .002 (0.05) | Panel Thickness |
| VLP1-F-1                                             | 1    | .50 (12.7)  | .19 (4.7) | .06 (1.5)  | .12 (3) | .25 (6.4)                    | .10 (2.5) | .19 (4.7) | .06 (1.5)         | .03-.12 (0.8-3) |
| VLP1-F-3                                             |      | .65 (16.5)  |           |            |         |                              |           |           |                   |                 |
| VLP1-F-4                                             |      | .86 (21.8)  |           |            |         |                              |           |           |                   |                 |
| VLP1-F-5                                             |      | 1.03 (26.1) |           |            |         |                              |           |           |                   |                 |
| VLP1-D-1                                             | 2    | .50 (12.7)  |           |            |         |                              |           |           |                   |                 |
| VLP1-D-3                                             |      | .65 (16.5)  |           |            |         |                              |           |           |                   |                 |
| VLP1-D-4                                             |      | .86 (21.8)  |           |            |         |                              |           |           |                   |                 |
| VLP1-D-5                                             |      | 1.03 (26.1) |           |            |         |                              |           |           |                   |                 |
| VLP2-F-1                                             | 1    | .50 (12.7)  | .30 (7.5) | .10 (2.45) | .20 (5) | .39 (10)                     | .12 (3)   | .30 (7.5) | .09 (2.4)         |                 |
| VLP2-F-2                                             |      | .59 (15)    |           |            |         |                              |           |           |                   |                 |
| VLP2-F-3                                             |      | .65 (16.5)  |           |            |         |                              |           |           |                   |                 |
| VLP2-F-4                                             |      | .86 (21.8)  |           |            |         |                              |           |           |                   |                 |
| VLP2-F-5                                             |      | 1.03 (26.1) |           |            |         |                              |           |           |                   |                 |
| VLP2-F-6                                             |      | 2.17 (55)   |           |            |         |                              |           |           |                   |                 |
| VLP2-D-1                                             | 2    | .50 (12.7)  |           |            |         |                              |           |           |                   |                 |
| VLP2-D-3                                             |      | .65 (16.5)  |           |            |         |                              |           |           |                   |                 |
| VLP2-D-4                                             |      | .86 (21.8)  |           |            |         |                              |           |           |                   |                 |
| VLP2-D-5                                             |      | 1.03 (26.1) |           |            |         |                              |           |           |                   |                 |
| VLP2-D-6                                             |      | 2.17 (55)   |           |            |         |                              |           |           |                   |                 |

## LEDC LED Lens Cover



Patent Pending



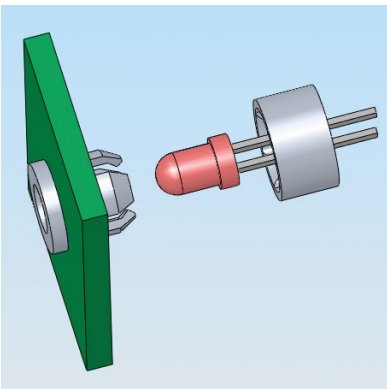
Material: Polycarbonate, RMS-215 Color: Clear

Standard Pack: 1000 per bag

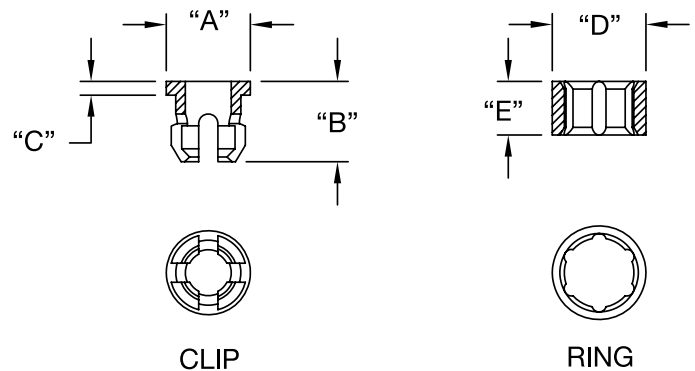
| Part No. | Details           | Mounting Hole Dia. | Panel Thickness | O-Ring Material                | Fits LED     |
|----------|-------------------|--------------------|-----------------|--------------------------------|--------------|
| LEDC-1   | Cover             | .03 (7.6)          | .177 (4.5)      | -                              | T1-3/4 (5mm) |
| LEDC-2   | Cover with O-Ring |                    | .118 (3)        | Black Neoprene Rubber, RMS-279 |              |

Cover supplied with standard 10° angled lens. Custom options available by special order.

## LEDCR LED Clips & Rings



- The devices go together by simply inserting the "clip" to the front of the panel, then assembling the LED into the "clip" from the rear of the panel. The "ring" is pressed onto the rear of the "clip" for a firm retention

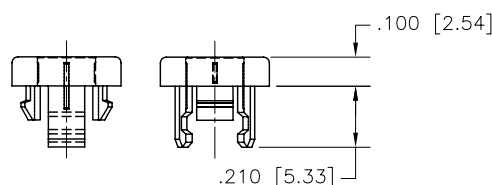
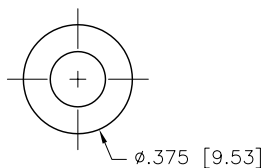
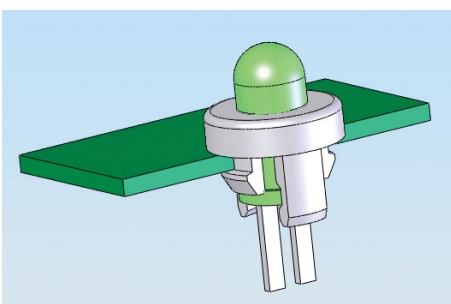


F

Color: Black Standard Pack: 1,000 per bag

| Part No.  | Ring Material             | Clip Material             | LED Type      | Mounting Hole       | Panel Thickness     | "A" Dia   | "B"       | "C"         | "D" Dia   | "E"       |
|-----------|---------------------------|---------------------------|---------------|---------------------|---------------------|-----------|-----------|-------------|-----------|-----------|
| LEDCR-104 | UL94 V0 Nylon 6/6, RMS-43 | UL94 V0 Nylon 6/6, RMS-43 | T-1 (3mm)     | .174-.180 (4.4-4.6) | .032-.125 (0.8-3.2) | .21 (5.3) | .21 (5.3) | .015 (0.38) | .24 (6.1) | .14 (3.6) |
| LEDCR-174 | UL94 V2 Nylon 6/6, RMS-48 |                           | T-1-3/4 (5mm) | .267-.273 (6.8-6.9) | (0.8-3.2)           | .30 (7.6) | .26 (6.6) | .030 (0.76) | .35 (8.9) | .16 (4.1) |

## LEDHPM-1 LED Holder; Panel Mount



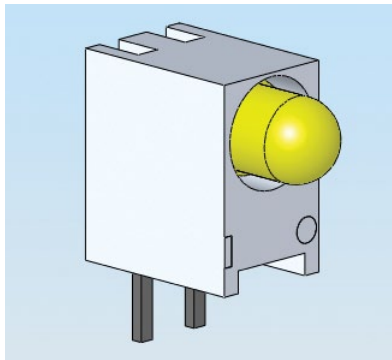
Material: UL94 V2 Nylon 6/6, RMS-01 Color: Natural

Standard Pack: 1,000 per bag

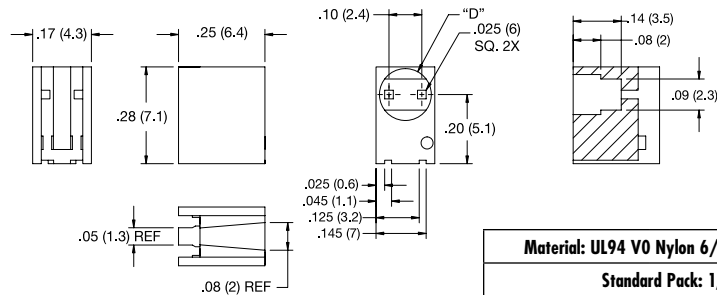
| Part No. | Mounting Hole Dia     | Panel Thickness       | Fits LED      |
|----------|-----------------------|-----------------------|---------------|
| LEDHPM-1 | .281-.287 (7.14-7.29) | .044-.048 (1.12-1.22) | T-1 3/4 (5mm) |

# LED HARDWARE

## LEDH LED Holder



### LEDH-101C

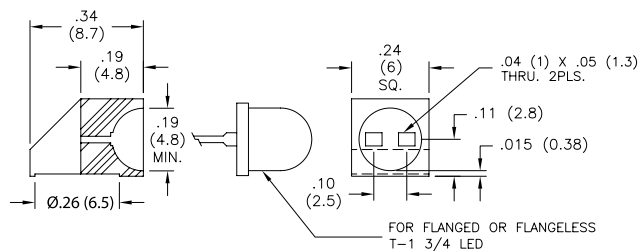


**Material: UL94 V0 Nylon 6/6, RMS-43 Color: Black**

**Standard Pack: 1,000 per bag**

| Part No      | Dia. "D"  | Fits LED  |
|--------------|-----------|-----------|
| LEDH-101C-34 | .13 (3.4) | T-1 (3mm) |
| LEDH-101C-38 | .15 (3.8) | T-1 (3mm) |

### LEDH-909-235

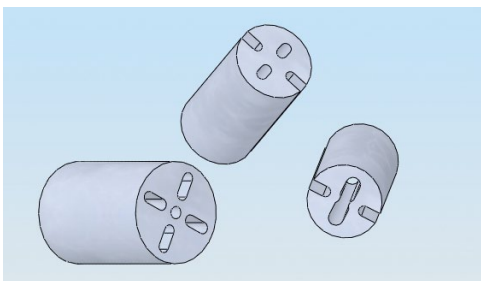


**Material: UL94 V2 Nylon 6/6, RMS-48 Color: Black**

**Standard Pack: 1,000 per bag**

| Part No      | Fits LED      |
|--------------|---------------|
| LEDH-909-235 | T-1 3/4 (5mm) |

## LEDM Metric LED Spacers



**Material: UL94 V0 PVC, RMS-388 Color: Black**

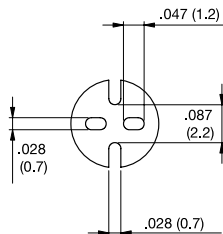
**Standard Pack: 1,000 per bag**

| Part No. | "L" mm Length | Fits LED      |
|----------|---------------|---------------|
| LEDM-1-L | 02 - 30       | T-1 3/4 (5mm) |
| LEDM-2-L |               | T-1 (3mm)     |
| LEDM-3-L |               | T-1 3/4 (5mm) |

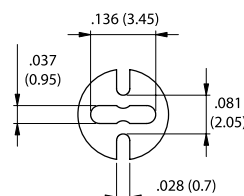
**Parts available in 1mm increments. To order, replace "L" with the length. Ex. LEDM-1-02**

**Available by special order; 5,000 piece minimum.**

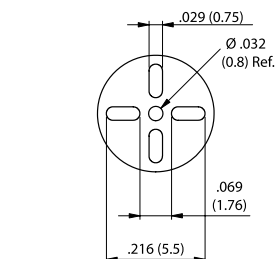
### LEDM-1



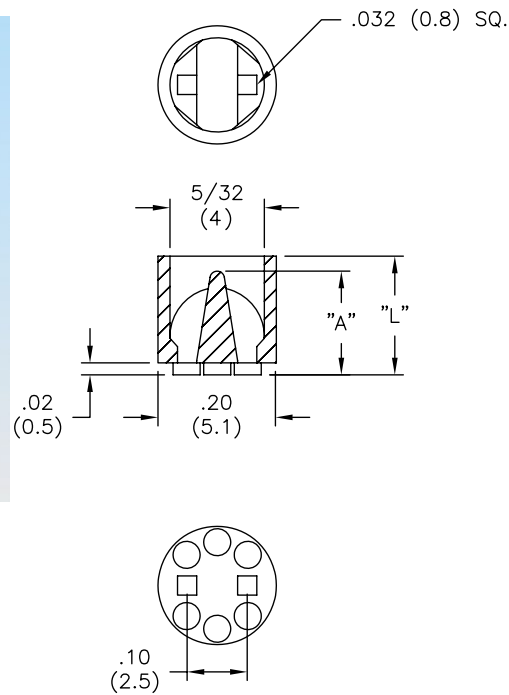
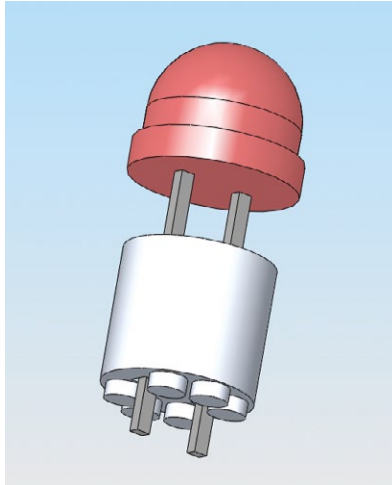
### LEDM-2



### LEDM-3



## LEDS2M LED Spacer



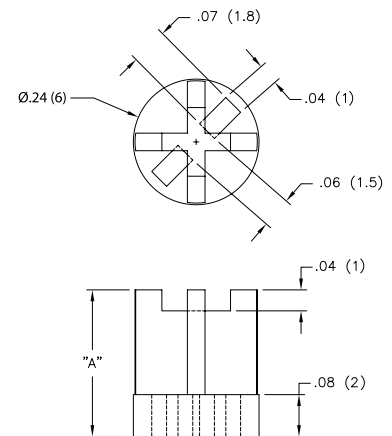
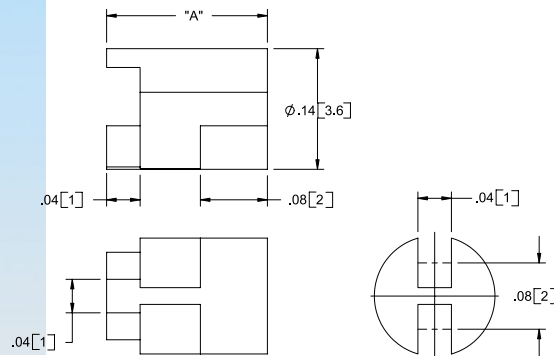
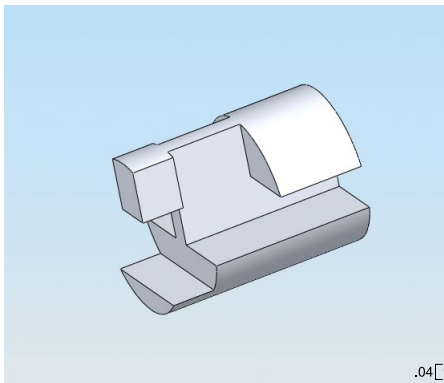
| Material: Nylon 6/6, RMS-01 Color: Natural |            |            |                  |
|--------------------------------------------|------------|------------|------------------|
| Standard Pack: 1,000 per bag               |            |            |                  |
| Part No.                                   | "L"        | "A" Ref    | Fits LED         |
| LEDS2M-120-01                              | .12 (3.1)  | .08 (2)    | T-1 3/4<br>(5mm) |
| LEDS2M-140-01                              | .14 (3.6)  |            |                  |
| LEDS2M-160-01                              | .16 (4.1)  |            |                  |
| LEDS2M-180-01                              | .18 (4.5)  |            |                  |
| LEDS2M-200-01                              | .20 (5.1)  |            |                  |
| LEDS2M-220-01                              | .22 (5.6)  |            |                  |
| LEDS2M-240-01                              | .24 (6.1)  | .20 (5.1)  |                  |
| LEDS2M-250-01                              | .25 (6.4)  |            |                  |
| LEDS2M-260-01                              | .26 (6.6)  |            |                  |
| LEDS2M-280-01                              | .28 (7.1)  |            |                  |
| LEDS2M-300-01                              | .30 (7.8)  |            |                  |
| LEDS2M-320-01                              | .32 (8.1)  |            |                  |
| LEDS2M-340-01                              | .34 (8.6)  | .33 (8.4)  |                  |
| LEDS2M-360-01                              | .36 (9.1)  |            |                  |
| LEDS2M-380-01                              | .38 (9.7)  |            |                  |
| LEDS2M-400-01                              | .40 (10.2) |            |                  |
| LEDS2M-420-01                              | .42 (10.7) |            |                  |
| LEDS2M-440-01                              | .44 (11.2) |            |                  |
| LEDS2M-450-01                              | .45 (11.4) | .45 (11.4) |                  |
| LEDS2M-460-01                              | .46 (11.7) |            |                  |
| LEDS2M-500-01                              | .50 (12.7) |            |                  |
| LEDS2M-550-01                              | .55 (14)   | .58 (14.7) |                  |
| LEDS2M-600-01                              | .60 (15.2) |            |                  |
| LEDS2M-650-01                              | .65 (16.5) |            |                  |
| LEDS2M-750-01                              | .75 (19.1) | .70 (17.8) |                  |
| LEDS2M-850-01                              | .85 (21.6) |            |                  |
| LEDS2M-900-01                              | .90 (22.9) |            |                  |

F

## LEDS1E/LEDS2E LED Spacers

### LEDS1E

### LEDS2E



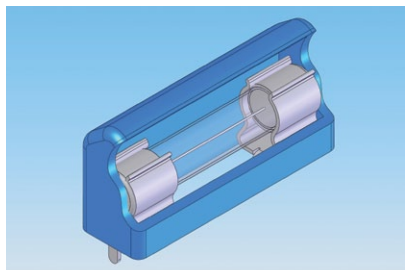
| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Natural |           |              |               |            |
|-----------------------------------------------------|-----------|--------------|---------------|------------|
| Standard Pack: 1,000 per bag                        |           |              |               |            |
| Part No.                                            | Fits LED  | Part No.     | Fits LED      | "A"        |
| LEDS1E-3-01                                         | T-1 (3mm) | LEDS2E-3-01  | T-1 3/4 (5mm) | 3/16 (4.8) |
| LEDS1E-4-01                                         |           | LEDS2E-4-01  |               | 1/4 (6.4)  |
| LEDS1E-6-01                                         |           | LEDS2E-6-01  |               | 3/8 (9.5)  |
| LEDS1E-8-01                                         |           | LEDS2E-8-01  |               | 1/2 (12.7) |
| LEDS1E-10-01                                        |           | LEDS2E-10-01 |               | 5/8 (15.9) |
| LEDS1E-12-01                                        |           | LEDS2E-12-01 |               | 3/4 (19.1) |
| LEDS1E-14-01                                        |           | LEDS2E-14-01 |               | 7/8 (22.2) |
| LEDS1E-16-01                                        |           | LEDS2E-16-01 |               | 1 (25.4)   |

\*Available in UL94 V0 material by special order. To order, replace -01 with -19

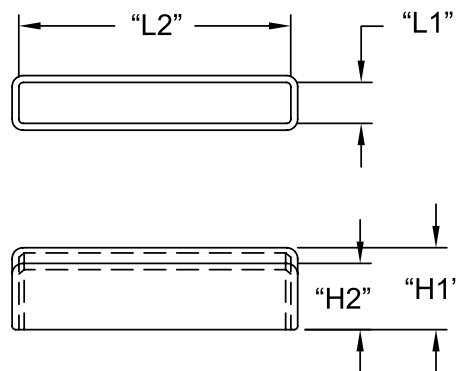




## 840XXX Quick Fit Fuse Cover

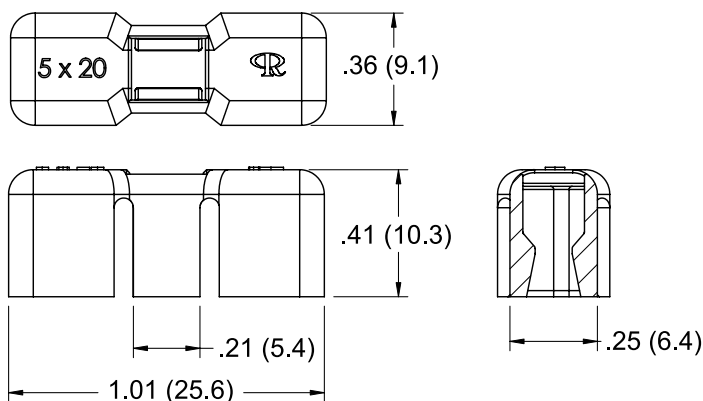
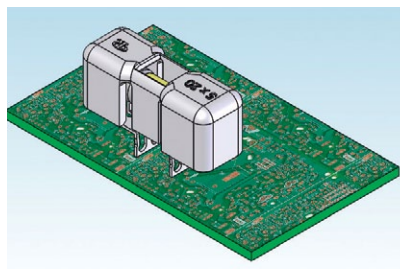


• UL #E120063



| Material: Flexible PVC, RMS-55 • Color: Transparent Blue |            |              |           |             |               |
|----------------------------------------------------------|------------|--------------|-----------|-------------|---------------|
| Standard Pack: 1,000 per bag                             |            |              |           |             |               |
| Part No.                                                 | "H1" Ref.  | "H2" Ref.    | "L1"      | "L2"        | Fuse Type     |
| 840620                                                   | 1/2 (12.7) | 0.391 (9.9)  | .24 (6.1) | .79 (20.1)  | METRIC        |
| 840730                                                   | 1/2 (12.7) | 0.391 (9.9)  | .28 (7.1) | 1.18 (30)   |               |
| 840832                                                   | 5/8 (15.9) | 0.578 (14.7) | .32 (8.1) | 1.26 (32)   |               |
| 840836                                                   | 1/2 (12.7) | 0.391 (9.9)  | .32 (8.1) | 1.42 (36.1) | STD 0.25X1.25 |

## FCE-5-19 Fuse Cover



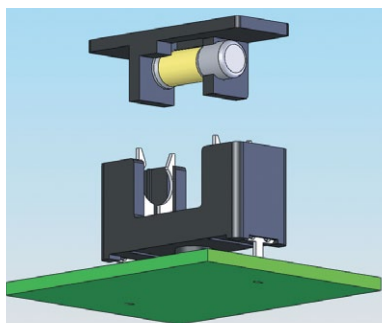
| Material: UL94 V0 Nylon 6/6, RMS-19 Color: Natural |                                         |
|----------------------------------------------------|-----------------------------------------|
| Part No.                                           | Standard Pack: 1,000 per Bag            |
|                                                    | Mounting Fuse Size                      |
| FCE-5-19                                           | Snap-fit onto a .20 x .79 (5 x 20) fuse |

G

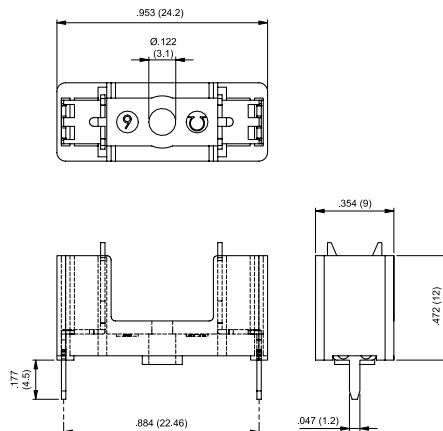
# INSULATORS

## FH/FC

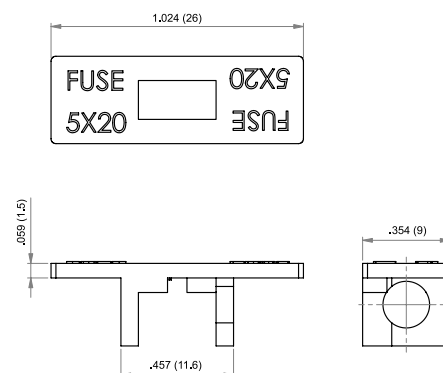
### Fuse Holder & Cover



## FH-320-NV



## FC-320-NV



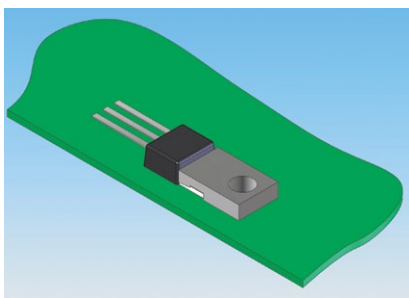
Mat'l: Nylon 6/6 25% Glass Filled, RMS-49 Color: Black;  
Pin Mat'l: Brass/ Nickel, RMS-289 Tin Plated, RMS-217

Standard Pack: 1,000 per bag

Available by Special Order Only.

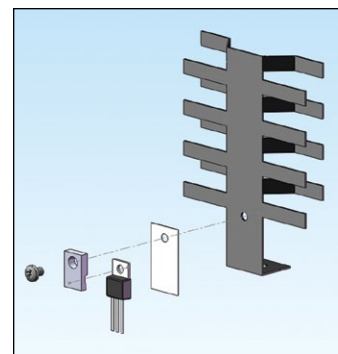
## IEC

### Transistor Insulator

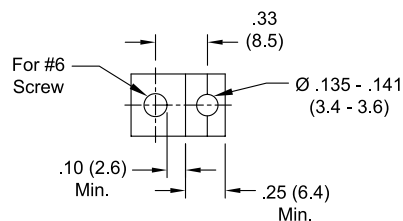
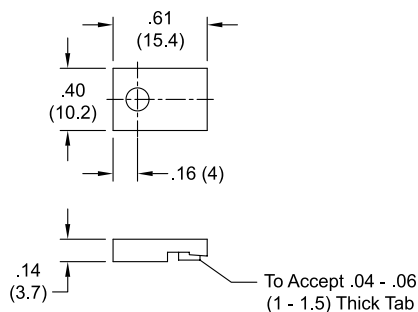


Material: Glass Filled Nylon, RMS-18  
Color: Black,

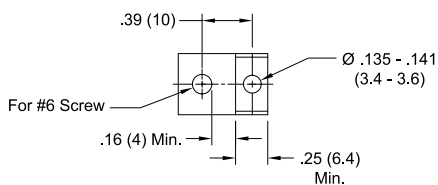
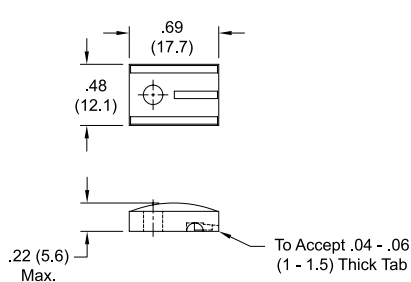
Standard Pack: 1,000 per bag



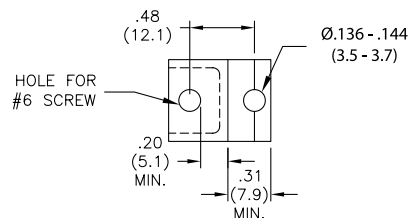
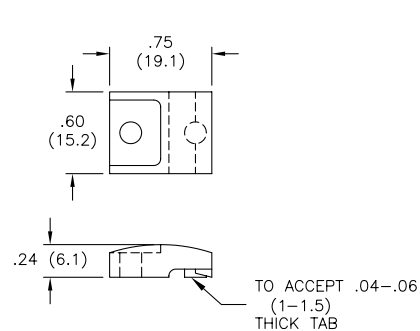
## IEC-TO-220-18



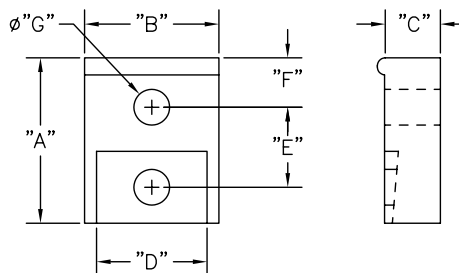
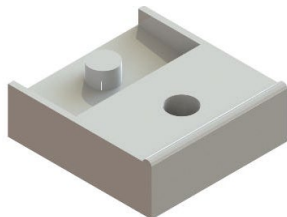
## IEC-TO-220V-18



## IEC-TO-218-18



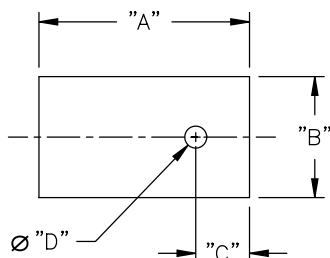
## HTRTC High Temp Transistor Cover



Material: UL94 V0 P.B.T, RMS-110 • Color: White, Max. Temp. 266°F (130°C)

| Part No. | "A"        | "B"      | "C"       | "D"        | "E"      | "F"       | "G"       | Transistor Case Style | Package Quantity |
|----------|------------|----------|-----------|------------|----------|-----------|-----------|-----------------------|------------------|
| HTRTC-1  | .63 (16)   | .51 (13) | .21 (5.4) | .42 (10.7) | .32 (8)  | .19 (4.7) | .14 (3.5) | TO-220                | 1,000            |
| HTRTC-1A | .76 (19.3) |          |           |            | .39 (10) | .24 (6)   | .14 (3.6) |                       |                  |

## TO Transistor Insulator Pad



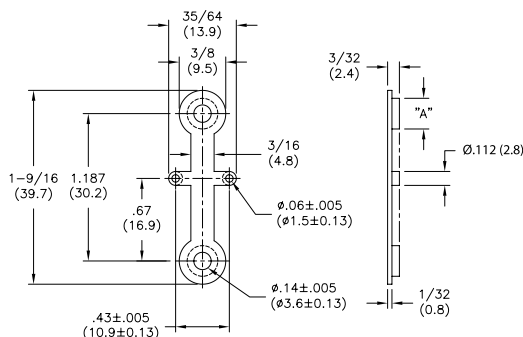
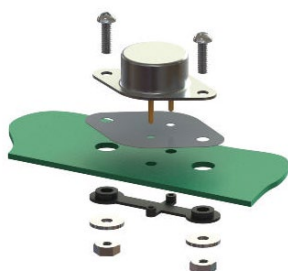
### Features

- For use with Richco Part #'s IEC-TO-220, IEC-TO-220V-18, IEC-TO-218 and IEC-TO-3

Material: .007 (0.18) Thick Silicone rubber and fiberglass composite, RMS-33 Color: Gray

| Part No.  | Standard Pack: 500 per Bag |            |           |             |
|-----------|----------------------------|------------|-----------|-------------|
|           | "A"                        | "B"        | "C"       | "D"         |
| TO-220-68 | 1.13 (28.7)                | .63 (16)   | .20 (5.1) | .145 (3.7)  |
| TO-218-70 | 1.41 (35.8)                | .81 (20.6) | .36 (9.1) | .147 (3.73) |

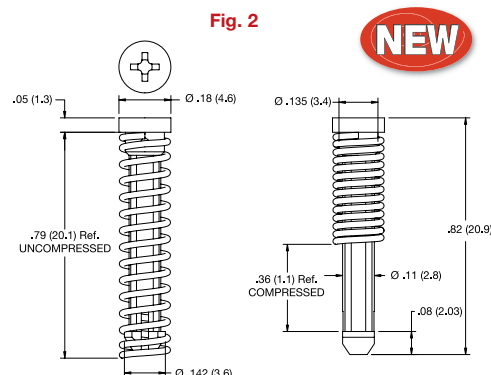
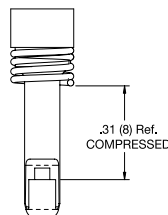
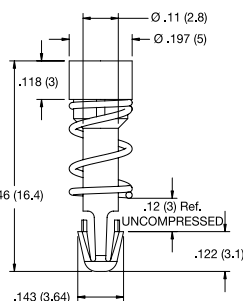
## IEC-TO3 Transistor Insulator



Material: Glass Filled Nylon, RMS-18  
Color: Black

| Part No.     | Standard Pack: 1,000 per bag           |  |
|--------------|----------------------------------------|--|
|              | ø "A"                                  |  |
| IEC-TO3-3-18 | .184 (4.7) To Fit .187 (4.8) Dia. Hole |  |

## HSR Heat Sink Spring Mount Rivet



### Features

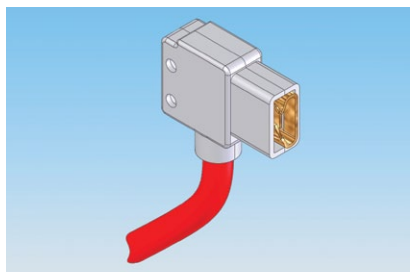
- Fastens a heat sink to a processor chip on a PCB
- The spring provides continuous pressure to the heat sink which improves conductivity

| Part No. | Standard Pack: 1,000 per bag |            |                           |                                                | Fig. |
|----------|------------------------------|------------|---------------------------|------------------------------------------------|------|
|          | Heat Sink Hole Ø             | PCB Hole Ø | Rivet Material            | Spring Material                                |      |
| HSR-1    | .125 - .157 (3.18 - 4)       | .118 (3)   | UL94 V2 Nylon 6/6, RMS-47 | Spring Steel, RMS-326, Chrome Plating, RMS-355 | 1    |
| HSR-2    | .120 - .140 (3.05 - 3.5)     | .122 (3.1) |                           | Stainless Steel, RMS-381                       | 2    |

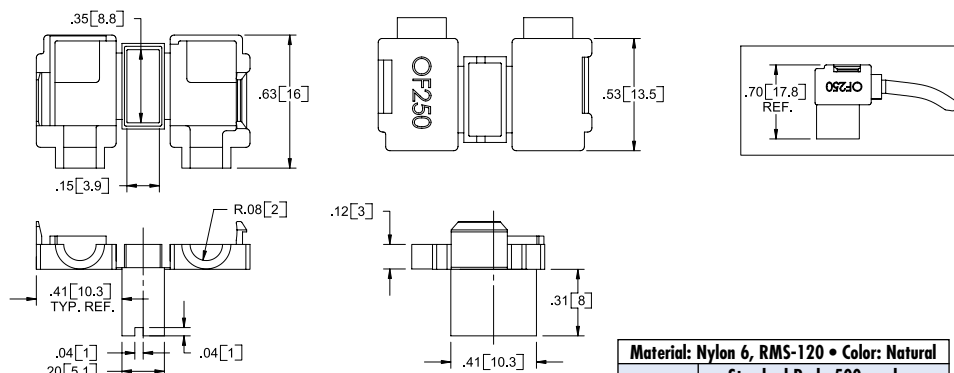
# INSULATORS

OF

## One Touch Sleeve Insulator



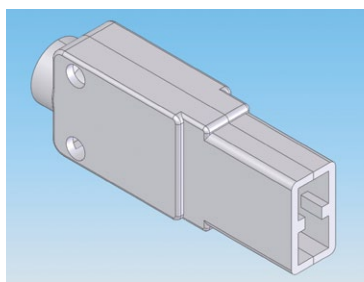
• UL #E55167



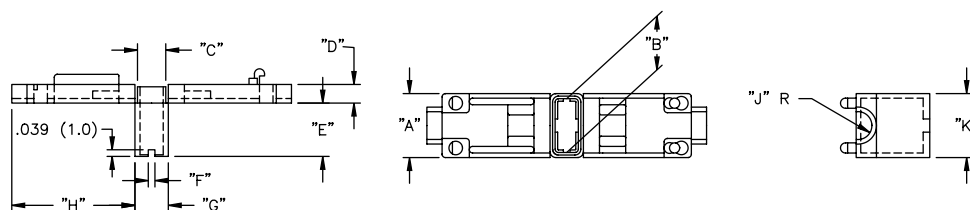
| Material: Nylon 6, RMS-120 • Color: Natural |                         |              |
|---------------------------------------------|-------------------------|--------------|
| Standard Pack: 500 per bag                  |                         |              |
| Part No.                                    | Terminal Type           | Wire Dia.    |
| OF-250                                      | FLAG TYPE<br>250 SERIES | .15<br>(3.9) |

OS

## One Touch Sleeve Insulator



• UL #E55167

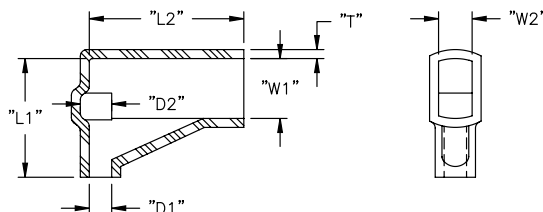
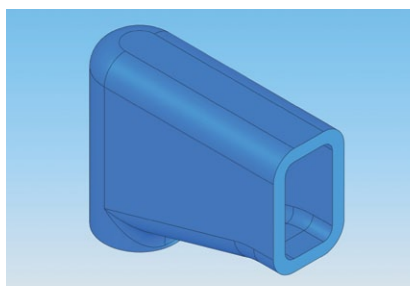


| Material: Nylon 6, RMS-120    Color: Natural     |                             |               |               |               |               |               |               |             |               |                |                |               |
|--------------------------------------------------|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|---------------|----------------|----------------|---------------|
| Standard Pack: 500 per bag                       |                             |               |               |               |               |               |               |             |               |                |                |               |
| Part No                                          | Terminal Type               | Wire Dia.     | "A"           | "B"           | "C"           | "D"           | "E"           | "F"         | "G"           | "H"            | "J"            | "K"           |
| OS-187                                           | Straight Type<br>187 Series | 9/64<br>(3.6) | .346<br>(8.8) | .240<br>(6.1) | .106<br>(2.7) | .102<br>(2.6) | .268<br>(6.8) | .039<br>(1) | .154<br>(3.9) | .594<br>(15.1) | .071<br>(1.8)  | .295<br>(7.5) |
| OS-250                                           | Straight Type<br>250 Series | 5/32<br>(3.8) | .386<br>(9.8) | .311<br>(7.9) | .164<br>(3.4) | .110<br>(2.8) | .315<br>(8)   | .039<br>(1) | .185<br>(4.7) | .728<br>(18.5) | .081<br>(2.05) | .358<br>(9.1) |
| Available by special order; 5,000 piece minimum. |                             |               |               |               |               |               |               |             |               |                |                |               |

Available by special order; 5,000 piece minimum.

248532/248548

## Quick Fit Insulator

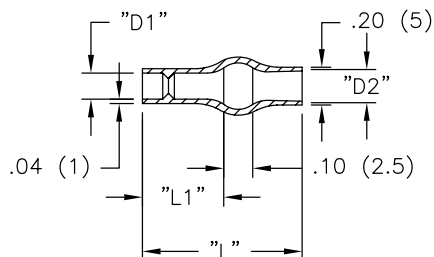


| Material: Soft PVC, RMS-55 Color: Transparent Blue |                        |            |              |              |               |               |              |              |            |                   |                     |
|----------------------------------------------------|------------------------|------------|--------------|--------------|---------------|---------------|--------------|--------------|------------|-------------------|---------------------|
| Standard Pack: 1,000 per bag                       |                        |            |              |              |               |               |              |              |            |                   |                     |
| Part No                                            | Wire O.D. Range        | Wire Gauge | "D1"         | "D2"         | "L1"          | "L2"          | "W1"         | "W2"         | "T"        | ID No.<br>On Part | Connector<br>Series |
| 248532                                             | .071-.126<br>(1.8-3.2) | 18-16      | .13<br>(3.2) | .17<br>(4.2) | .53<br>(13.5) | .69<br>(17.5) | .34<br>(8.5) | .18<br>(4.5) | .04<br>(1) | S63               | 250                 |
| 248548                                             | .113-.190<br>(2.9-4.8) | 14-12      | .19<br>(4.8) | .23<br>(5.8) |               |               |              |              |            | S65               |                     |

## 224225/224230 Quick Fit Insulator



• UL #E120063



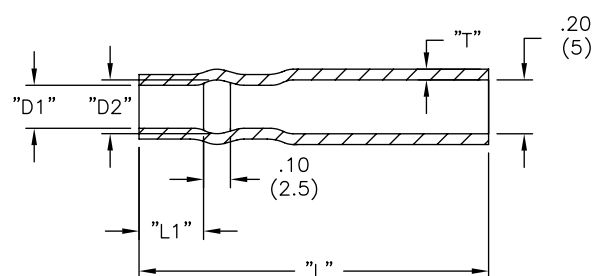
| Material: Soft PVC, RMS-55 Color: Transparent Blue |                       |            |           |           |           |          |
|----------------------------------------------------|-----------------------|------------|-----------|-----------|-----------|----------|
| Standard Pack: 1,000 per bag                       |                       |            |           |           |           |          |
| Part No                                            | Wire O.D. Range       | Wire Gauge | "D1"      | "D2"      | "L1"      | "L"      |
| 224225                                             | .058-.091 (1.47-2.31) | 22-18      | .10 (2.5) | .16 (4.1) | .24 (6.1) | .51 (13) |
| 224230                                             | .068-.113 (1.73-2.87) | 20-18      | .12 (3)   | .16 (4.1) | .24 (6.1) |          |

Available by special order only.

## 215025/215032 Quick Fit Insulator



• UL #E120063

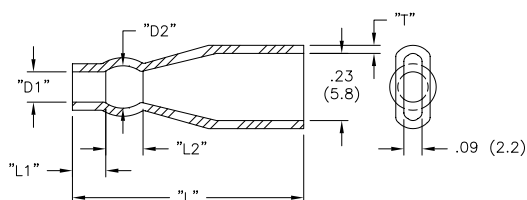


| Material: Soft PVC, RMS-55 Color: Transparent Blue |                       |            |           |           |           |           |         |
|----------------------------------------------------|-----------------------|------------|-----------|-----------|-----------|-----------|---------|
| Standard Pack: 1,000 per bag                       |                       |            |           |           |           |           |         |
| Part No                                            | Wire O.D. Range       | Wire Gauge | "D1"      | "D2"      | "L1"      | "L"       | "T"     |
| 215025                                             | .058-.091 (1.47-2.31) | 22-18      | .10 (2.5) | .16 (4.1) | .24 (6.1) | 1.30 (33) | .04 (1) |
| 215032                                             | .071-.126 (1.8-3.2)   | 18-16      | .13 (3.3) | .18 (4.6) | .28 (7.1) | 1.34 (34) |         |

## 235830/235835 Quick Fit Insulator



• UL #E120063

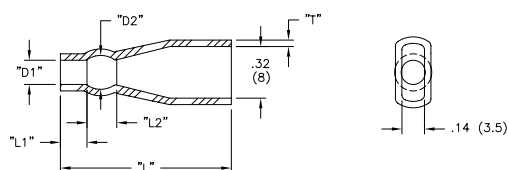


| Material: Soft PVC, RMS-55 Color: Transparent Blue |                     |            |           |           |         |           |          |           |
|----------------------------------------------------|---------------------|------------|-----------|-----------|---------|-----------|----------|-----------|
| Standard Pack: 1,000 per bag                       |                     |            |           |           |         |           |          |           |
| Part No.                                           | Wire O.D. Range     | Wire Gauge | "D1"      | "D2"      | "L1"    | "L2"      | "L"      | "T"       |
| 235830                                             | .058-.091 (1.5-2.3) | 20-18      | .12 (3)   | .16 (4)   | .20 (5) | .10 (2.5) | .91 (23) | .03 (0.8) |
| 235835                                             | .071-.140 (1.8-3.6) | 18-14      | .14 (3.5) | .18 (4.5) |         | .12 (3)   |          |           |

## 2380XX Quick Fit Insulator



• UL #E120063



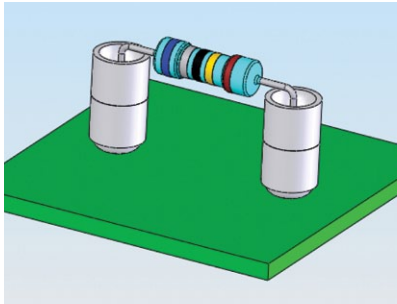
| Material: Soft PVC, RMS-55 Color: Transparent Blue |                     |            |           |           |           |           |            |         |
|----------------------------------------------------|---------------------|------------|-----------|-----------|-----------|-----------|------------|---------|
| Standard Pack: 1,000 per bag                       |                     |            |           |           |           |           |            |         |
| Part No                                            | Wire O.D. Range     | Wire Gauge | "D1"      | "D2"      | "L1"      | "L2"      | "L"        | "T"     |
| 238032                                             | .071-.126 (1.8-3.2) | 18-16      | .13 (3.3) | .19 (4.8) | .20 (5.1) | .10 (2.5) | .95 (24.1) | .04 (1) |
| 238035                                             | .071-.140 (1.8-3.6) | 18-14      | .14 (3.6) | .18 (4.6) |           | .12 (3)   |            |         |
| 238040                                             | .091-.140 (2.3-3.6) | 16-14      | .16 (4.1) | .20 (5.1) |           | .12 (3)   | .97 (24.6) |         |
| 238048                                             | .113-.190 (2.9-4.8) | 14-12      | .19 (4.8) | .25 (6.3) |           | .10 (2.5) | .98 (24.9) |         |

G



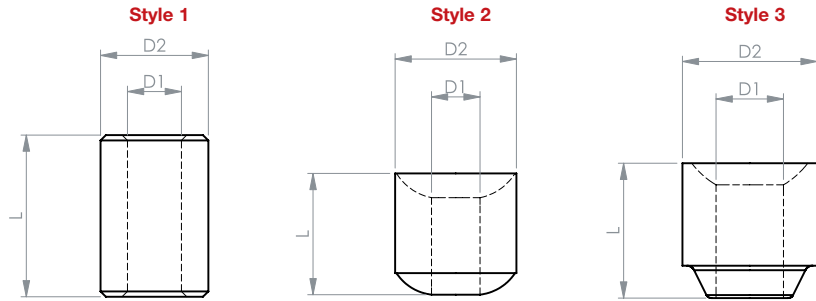
# INSULATORS

## CER Ceramic Beads



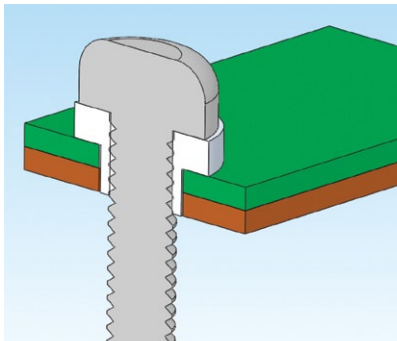
### Features

- Max. operating temperature: 1832°F (1000°C)
- Parts are stackable as seen in application photo



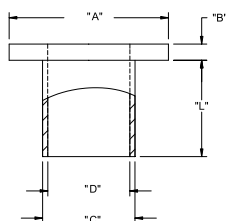
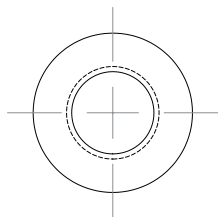
| CER                                                  |            | Standard Pack: 1,000 per bag |            |       |  |
|------------------------------------------------------|------------|------------------------------|------------|-------|--|
| Mat'l: Steatite C220 Ceramic, RMS-170 Color: Natural | "D1"       | "D2"                         | "L"        | Style |  |
| CER-1                                                | .079 (2)   | .158 (4)                     | .237 (6)   | 1     |  |
| CER-2                                                | .063 (1.6) | .178 (4.5)                   | .315 (8)   |       |  |
| CER-3                                                |            |                              | .394 (10)  |       |  |
| CER-4                                                | .040 (1)   | .119 (3)                     | .119 (3)   | 2     |  |
| CER-5                                                | .071 (1.8) | .178 (4.5)                   | .178 (4.5) |       |  |
| CER-6                                                | .040 (1)   | .119 (3)                     | .197 (5)   | 3     |  |
| CER-7                                                | .098 (2.5) | .197 (5)                     |            |       |  |

## MNI Screw Insulator



### Features

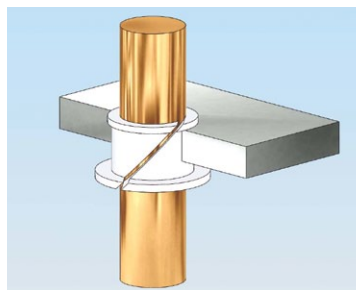
- Use as screw insulators and in bushing applications
- Reduce vibration
- Strong and corrosion resistant



| Material: UL94 V2 Nylon 6/6 Color: Natural |             |             |             |            | Standard Pack: 1,000 per bag |            |            |            |
|--------------------------------------------|-------------|-------------|-------------|------------|------------------------------|------------|------------|------------|
| Part No.                                   | Screw Size  | "L"         | "A"         | "B"        | "C"                          | "D"        | Material   |            |
| MNI#2-2                                    | #2 (M2)     | .031 (0.8)  | .181 (4.6)  | .047 (1.2) | .120 (3)                     | .090 (2.3) | RMS-01     |            |
| MNI#2-4                                    |             | .063 (1.6)  |             |            | .118 (3)                     |            |            |            |
| MNI#2-6                                    |             | .093 (2.4)  |             |            |                              |            |            |            |
| MNI#4-2                                    | #4 (M2.5)   | .031 (0.8)  | .235 (6)    |            | .145 (3.7)                   | .115 (2.9) |            |            |
| MNI#4-3                                    |             | .046 (1.2)  |             |            | .140 (3.6)                   |            |            |            |
| MNI#4-4                                    |             | .063 (1.6)  |             |            |                              |            |            |            |
| MNI#4-5                                    |             | .084 (2.1)  | .235 (6)    |            |                              |            |            | .145 (3.7) |
| MNI#4-6                                    |             | .093 (2.4)  |             |            |                              |            |            |            |
| MNI#4-8                                    |             | .125 (3.2)  |             |            |                              |            |            |            |
| MNI#4-10                                   |             | .156 (4)    |             |            |                              |            |            |            |
| MNI#4-12                                   |             | .187 (4.7)  | .290 (7.4)  |            | .170 (4.3)                   | .140 (3.6) |            |            |
| MNI#4-16                                   |             | .250 (6.4)  |             |            |                              |            |            |            |
| MNI#4-24                                   |             | .375 (9.5)  |             |            |                              |            |            |            |
| MNI#5-3                                    | #5 (M3)     | .051 (1.3)  | .370 (9.4)  |            |                              |            | .236 (6)   | .128 (3.3) |
| MNI#6-2                                    |             | .031 (0.8)  | .290 (7.4)  | .170 (4.3) |                              |            | .140 (3.6) |            |
| MNI#6-4                                    | .063 (1.6)  |             |             |            |                              |            |            |            |
| MNI#6-6                                    | .093 (2.4)  |             |             |            |                              |            |            |            |
| MNI#6-8                                    | .125 (3.2)  |             |             |            |                              |            |            |            |
| MNI#6-12                                   | .187 (4.7)  |             |             |            |                              |            |            |            |
| MNI#6-16                                   | .250 (6.4)  |             |             |            |                              |            |            |            |
| MNI#6-24                                   | .375 (9.5)  |             |             |            |                              |            |            |            |
| MNI#6-32                                   | .500 (12.7) | RMS-48      |             |            |                              |            |            |            |
| MNI#8-2                                    | #8 (M4)     | .031 (0.8)  | .344 (8.7)  | .063 (1.6) | .205 (5.2)                   | .173 (4.4) | RMS-01     |            |
| MNI#8-4                                    |             | .063 (1.6)  |             |            |                              |            |            |            |
| MNI#8-6                                    |             | .093 (2.4)  |             |            |                              |            |            |            |
| MNI#8-8                                    |             | .125 (3.2)  |             |            |                              |            |            |            |
| MNI#8-12                                   |             | .187 (4.7)  |             |            |                              |            |            |            |
| MNI#8-16                                   |             | .250 (6.4)  |             |            |                              |            |            |            |
| MNI#8-24                                   |             | .375 (9.5)  |             |            |                              |            |            |            |
| MNI#8-32                                   |             | .500 (12.7) |             |            |                              |            | RMS-48     |            |
| MNI#10-2                                   | #10 (M5)    | .031 (0.8)  | .399 (10.1) | .260 (6.6) | .200 (5.1)                   | RMS-01     |            |            |
| MNI#10-4                                   |             | .063 (1.6)  |             |            |                              |            |            |            |
| MNI#10-6                                   |             | .093 (2.4)  |             |            |                              |            |            |            |
| MNI#10-8                                   |             | .125 (3.2)  |             |            |                              |            |            |            |
| MNI#10-12                                  |             | .187 (4.7)  |             |            |                              |            |            |            |
| MNI#10-16                                  |             | .250 (6.4)  |             |            |                              |            |            |            |
| MNI#10-24                                  |             | .375 (9.5)  |             |            |                              |            |            |            |
| MNI#10-32                                  |             | .500 (12.7) |             |            |                              | RMS-48     |            |            |
| MNI1/4-2                                   | 1/4 (M6)    | .031 (0.8)  | .513 (13)   | .065 (1.7) | .312 (7.9)                   | .260 (6.6) | RMS-01     |            |
| MNI1/4-4                                   |             | .063 (1.6)  |             |            |                              |            |            |            |
| MNI1/4-6                                   |             | .093 (2.4)  |             |            |                              |            |            |            |
| MNI1/4-12                                  |             | .187 (4.7)  |             |            |                              |            |            |            |
| MNI1/4-16                                  |             | .250 (6.4)  |             |            |                              |            |            |            |
| MNI1/4-24                                  |             | .375 (9.5)  |             |            |                              |            |            |            |
| MNI1/4-32                                  |             | .500 (12.7) |             |            |                              |            |            |            |
| MNI5/16-6                                  | 5/16 (M8)   | .093 (2.4)  | .620 (15.7) | .063 (1.6) | .360 (9.1)                   | .320 (8.1) |            |            |
| MNI5/16-12                                 |             | .187 (4.7)  |             |            |                              |            |            |            |
| MNI5/16-16                                 |             | .250 (6.4)  |             |            |                              |            |            |            |
| MNI-M2.5-1.3                               | M2.5        | .051 (1.3)  | .248 (6.3)  | .047 (1.2) | .138 (3.5)                   | .114 (2.9) | RMS-48     |            |
| MNI-M2.5-3.6                               |             | .142 (3.6)  | .280 (7.1)  | .059 (1.5) | .150 (3.8)                   | .110 (2.8) |            |            |
| MNIM3-1.0                                  | M3          | .039 (1)    | .280 (7.1)  | .039 (1)   | .236 (6)                     | .122 (3.1) | RMS-48     |            |
| MNIM3-1.3                                  |             | .051 (1.3)  | .347 (8.8)  | .047 (1.2) | .236 (6)                     | .126 (3.2) | RMS-48     |            |
| MNIM3-2.5                                  |             | .098 (2.5)  | .280 (7.1)  | .039 (1)   | .150 (3.8)                   | .122 (3.1) | RMS-48     |            |
| MNIM3-3.5                                  |             | .137 (3.5)  |             |            |                              |            | RMS-01     |            |
| Available by special order only            |             |             |             |            |                              |            |            |            |

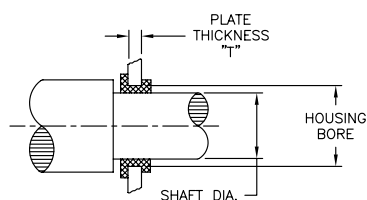
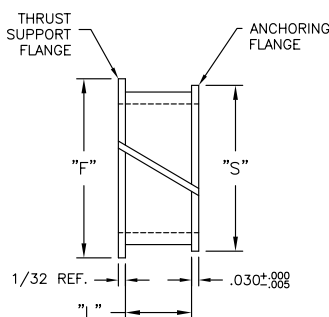
Available by special order only.

## R Snap In Bearing



### Features

- Effective in damping out noise and vibration
- Does not require lubrication
- Axial slot helps maintain proper fit and compensate for humidity and temperature changes



| Material: Nylon 6/6, RMS-48 • Color: White |                    |                       |                                |                            |       |                                    |                                 |
|--------------------------------------------|--------------------|-----------------------|--------------------------------|----------------------------|-------|------------------------------------|---------------------------------|
| Standard Pack: 1,000 per Bag               |                    |                       |                                |                            |       |                                    |                                 |
| Part No.                                   | Maximum Shaft Dia. | Minimum* Housing Bore | Bearing I.D.**<br>+.003/-0.000 | Flange Diameter $\pm 1/64$ |       | Bearing Length "L"<br>+.015/-0.000 | Recommended Plate Thickness "T" |
|                                            |                    |                       |                                | "F"                        | "S"   |                                    |                                 |
| R3L1-C                                     | 3/16               | .234                  | .189                           | 5/16                       | 1/4   | .078                               | .040 - .075                     |
| R3L2-C                                     |                    |                       |                                |                            |       | .140                               | .072 - .135                     |
| R4L1-C                                     | 1/4                | 5/16                  | .251                           | 7/16                       | 11/32 | .078                               | .040 - .075                     |
| R5L1-C                                     | 5/16               | 3/8                   | .314                           | 1/2                        | 13/32 | .078                               | .040 - .075                     |
| R6L2-C                                     | 3/8                | 7/16                  | .376                           | 9/16                       | 15/32 | .140                               | .072 - .135                     |
| R12L1-C                                    | 3/4                | 13/16                 | .751                           | 1                          | 27/32 | .078                               | .040 - .075                     |

\*The minimum clearance for snap-in bearings is .001". However, snap in bearings can be used with shaft diameters a few thousands larger or smaller than shown if housing bore is varied a corresponding amount

\*\*When installed in Housing Bore diameter shown

### Installation

Bearings should always be installed in a housing bore that provides good support for the bearing.

When operated continuously without lubrication at the maximum permissible speed of 500 rpm shafts should be hardened or plated in the bearing area to minimize wear.

Unhardened stainless steel shafts are not recommended. Use chromium plated or nickel plated shafts where corrosion is a problem.

### Correct Clearances

Housing bore diameters should not be smaller than the minimum diameters specified in tables presented in this catalog. To check bearing I.D.'s for clearance, the bearing should be installed in its housing bore. Plug gauges with diameters corresponding to the minimum and maximum recommended I.D.'s can be used to determine whether the

clearance is correct for the bearing when operated on recommended shaft.

When bearings must operate in liquids, the wall thickness of the bearing will increase due to absorption of liquid. Wall thicknesses also increase when bearings are used in a consistently humid environment.

The compensation gap allows for the bearing to be collapsed sufficiently so that the small flange can be easily spiraled through the mounting hole. Position the bearing over the hole with the gap facing up. With light finger pressure immediately to the left of the compensation gap, the bearing is spiraled into position.

Bearings perform effectively in temperature ratings from -40°F to +200°F. Bearing load ratings to 8,000 PSI and speed ratings up to 2,000 feet per minute insure durability.

### LOAD RATINGS

| Radial Load Capacity in Pounds of various RPM (Non-Lubricated) |                   |        |        |        |         |         |
|----------------------------------------------------------------|-------------------|--------|--------|--------|---------|---------|
| Bearing No.                                                    | Nominal Brg. I.D. | Static | 10 RPM | 50 RPM | 100 RPM | 250 RPM |
| R3L1-C                                                         | 3/16              | 24     | 4      | 4      | 3       | 2       |
| R3L2-C                                                         |                   | 48     | 9      | 8      | 6       | 4       |
| R4L1-C                                                         | 1/4               | 32     | 5      | 5      | 4       | 2       |
| R5L1-C                                                         | 5/16              | 40     | 8      | 6      | 4       | 2       |
| R6L2-C                                                         | 3/8               | 96     | 19     | 15     | 10      | 4       |
| R12L1-C                                                        | 3/4               | 100    | 20     | 14     | 6       | 2.5     |

# CABLE TIES & ACCESSORIES

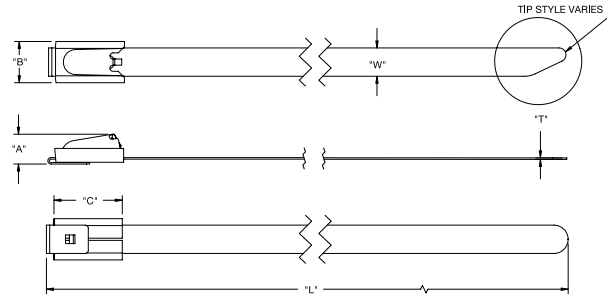
## MT

### Stainless Steel Cable Ties



UL #E309388

**NEW**



#### Features

- Type 316 stainless steel for corrosive environments
- Type 304 stainless steel for general purpose indoor & outdoor applications
- Withstand extreme temperatures from -328° to 1400°F (-200° to -760°C)
- Radiation, vibration, flame and corrosion resistant

## MTG-1

### Stainless Steel Cable Tie Installation Tool

**NEW**

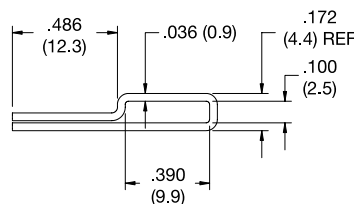
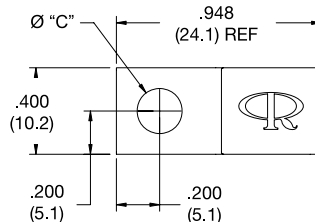
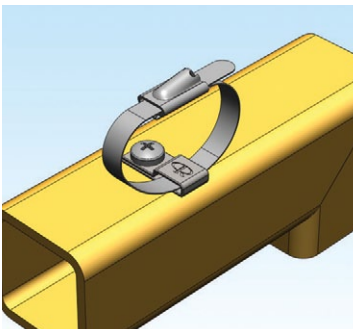


| Part No. | Max. Bundle Dia | "L" Length Approx. | "A"           | "B"            | "C"            | "T"            | "W"           | Min Loop Tensile Strength lb (kg) | Type of Steel                         | Standard Pack |
|----------|-----------------|--------------------|---------------|----------------|----------------|----------------|---------------|-----------------------------------|---------------------------------------|---------------|
| MT-1     | 1 (25)          | 5 (127)            | .169<br>(4.3) | .252<br>(6.4)  | .449<br>(11.4) | .010<br>(0.25) | .181<br>(4.6) | 100 (45)                          | 304<br>Stainless<br>Steel,<br>RMS-381 | 100           |
| MT-2     | 2 (51)          | 7.91 (201)         |               |                |                |                |               |                                   |                                       |               |
| MT-3     | 2.75 (70)       | 10.20 (259)        |               |                |                |                |               |                                   |                                       |               |
| MT-4     | 4 (102)         | 14.25 (362)        |               |                |                |                |               |                                   |                                       |               |
| MT-5     | 6 (152)         | 20.51 (521)        |               |                |                |                |               |                                   |                                       |               |
| MT-6     | 8 (203)         | 26.73 (679)        |               |                |                |                |               |                                   |                                       |               |
| MT-7     | 10 (254)        | 32.99 (838)        |               |                |                |                |               |                                   |                                       |               |
| MT-8     | 12 (304)        | 39.29 (998)        |               |                |                |                |               |                                   |                                       |               |
| MT-9     | 15 (380)        | 49.21 (1250)       |               |                |                |                |               |                                   |                                       |               |
| MT-10    | 2 (51)          | 7.91 (201)         | .221<br>(5.6) | .402<br>(10.2) | .543<br>(13.8) |                | .311<br>(7.9) | 250 (113)                         | 304<br>Stainless<br>Steel,<br>RMS-381 | 100           |
| MT-11    | 4 (102)         | 14.25 (362)        |               |                |                |                |               |                                   |                                       |               |
| MT-12    | 6 (152)         | 20.51 (521)        |               |                |                |                |               |                                   |                                       |               |
| MT-13    | 8 (203)         | 26.73 (679)        |               |                |                |                |               |                                   |                                       |               |
| MT-14    | 10 (254)        | 32.99 (838)        |               |                |                |                |               |                                   |                                       |               |
| MT-15    | 12 (304)        | 39.29 (998)        |               |                |                |                |               |                                   |                                       |               |
| MT-16    | 1 (25)          | 5 (127)            | .169<br>(4.3) | .252<br>(6.4)  | .449<br>(11.4) |                | .181<br>(4.6) | 100 (45)                          | 316<br>Stainless<br>Steel,<br>RMS-382 | 100           |
| MT-17    | 2 (51)          | 7.91 (201)         |               |                |                |                |               |                                   |                                       |               |
| MT-18    | 2.75 (70)       | 10.20 (259)        |               |                |                |                |               |                                   |                                       |               |
| MT-19    | 4 (102)         | 14.25 (362)        |               |                |                |                |               |                                   |                                       |               |
| MT-20    | 6 (152)         | 20.51 (521)        |               |                |                |                |               |                                   |                                       |               |
| MT-21    | 8 (203)         | 26.73 (679)        |               |                |                |                |               |                                   |                                       |               |
| MT-22    | 10 (254)        | 32.99 (838)        |               |                |                |                |               |                                   |                                       |               |
| MT-23    | 12 (304)        | 39.29 (998)        |               |                |                |                |               |                                   |                                       |               |
| MT-24    | 15 (380)        | 49.21 (1250)       |               |                |                |                |               |                                   |                                       |               |
| MT-25    | 2 (51)          | 7.91 (201)         | .221<br>(5.6) | .402<br>(10.2) | .543<br>(13.8) |                | .311<br>(7.9) | 250 (113)                         | 316<br>Stainless<br>Steel,<br>RMS-382 | 100           |
| MT-26    | 4 (102)         | 14.25 (362)        |               |                |                |                |               |                                   |                                       |               |
| MT-27    | 6 (152)         | 20.51 (521)        |               |                |                |                |               |                                   |                                       |               |
| MT-28    | 8 (203)         | 26.73 (679)        |               |                |                |                |               |                                   |                                       |               |
| MT-29    | 10 (254)        | 32.99 (838)        |               |                |                |                |               |                                   |                                       |               |
| MT-30    | 12 (304)        | 39.29 (998)        |               |                |                |                |               |                                   |                                       |               |

## MTH

### Stainless Steel Tie Holder

**NEW**



Mat'l: 304 Stainless Steel, RMS-381

| Part No | "C" Mounting Hole Dia. | Suggested Screw Size | Standard Pack |
|---------|------------------------|----------------------|---------------|
| MTH1-1  | .177 (4.5)             | #8 or M4             | 100           |
| MTH1-2  | .213 (5.4)             | #10 or M5            |               |
| MTH1-3  | .266 (6.8)             | 1/4 or M6            |               |

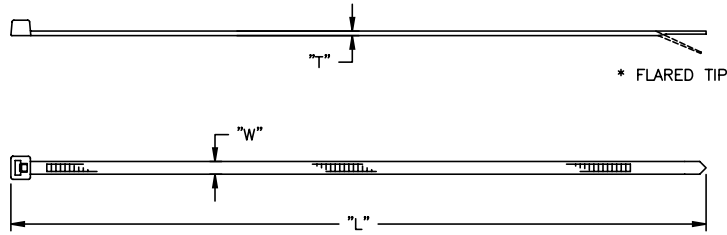
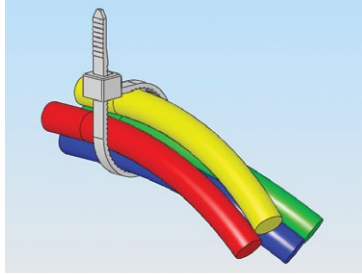
# CABLE TIES & ACCESSORIES

## WIT/WITA

UL94 V2 Nylon 6/6 Cable Ties



UL#E71558



| Material: UL94 V2 Nylon 6/6, RMS-01, Color: Natural |                            |                                   |               |                  |                |                    |                   |
|-----------------------------------------------------|----------------------------|-----------------------------------|---------------|------------------|----------------|--------------------|-------------------|
| Part Number                                         | Military Standard Part No. | Min Loop Tensile Strength Lbs (N) | Length Ref.   | Max. Bundle Dia. | "W" Width Ref. | "T" Thickness Ref. | Standard Pack Qty |
| WITA-18SF-M                                         | MS3367-4-9                 | 18 (80)                           | 3.85 (97.8)   | .87 (22)         | .10 (2.5)      | .04 (1)            | 1000              |
| WIT-18R-M*                                          |                            |                                   | 4.52 (114.8)  | 1.00 (25.4)      |                |                    | 1000              |
| WITA-18L-M                                          |                            |                                   | 5.90 (150)    | 1.46 (37.1)      |                | .05 (1.2)          | 1000              |
| WITA-18V-M                                          |                            |                                   | 7.87 (200)    | 2.13 (54.1)      |                |                    | 1000              |
| WITA-18X-M                                          |                            |                                   | 15.75 (400)   | 4.56 (116)       |                |                    | 1000              |
| WITA-40R-C                                          |                            | 40 (180)                          | 5.91 (150)    | 1.48 (37.6)      | .14 (3.6)      | .05 (1.3)          | 100               |
| WITA-40R-M                                          |                            |                                   | 7.87 (200)    | 2.05 (52)        |                |                    | 1000              |
| WITA-40L-M                                          |                            |                                   | 8.07 (205)    | 2.10 (53.3)      |                |                    | 1000              |
| WITA-40XL-M                                         |                            |                                   | 11.81 (300)   | 3.27 (83)        |                | .055 (1.4)         | 1000              |
| WITA-40VL-M                                         |                            |                                   |               |                  |                |                    | 1000              |
| WITA-50S-M                                          | MS3367-1-9                 | 50 (222)                          | 6.30 (160)    | 1.52 (38.7)      | .18 (4.6)      | .05 (1.3)          | 1000              |
| WIT-50R-M                                           |                            |                                   | 8.00 (203.2)  | 2.00 (50.8)      |                |                    | 1000              |
| WITA-50RL-M                                         |                            |                                   | 11.02 (280)   | 3.03 (77)        |                |                    | 1000              |
| WIT-50L-M                                           |                            |                                   | 15.40 (391.2) | 4.50 (114.3)     |                |                    | 1000              |
| WITA-50XL-C                                         |                            |                                   | 25.00 (635)   | 7.48 (190)       |                |                    | 100               |
| WITA-120S-D                                         |                            | 120 (534)                         | 8.60 (218)    | 2.01 (51)        | .30 (7.6)      | .06 (1.6)          | 500               |
| WITA-120R-D                                         |                            |                                   | 15.75 (400)   | 4.45 (113)       |                |                    | 500               |
| WITA-120L-D                                         |                            |                                   | 21.65 (550)   | 6.38 (162)       |                |                    | 500               |
| WITA-175R-L                                         |                            |                                   | 24.00 (610)   | 7.02 (178)       |                | .07 (1.8)          | 50                |
| WITA-175L-Q                                         |                            |                                   | 36.00 (914.4) | 10.91 (277)      |                |                    | 25                |

Other colors available by special order

## WIT/WITA-UVB

Weather Resistant  
Nylon 6/6 Cable Ties

| Material: UL94 V2 Weather Resistant Nylon 6/6, RMS-46, Color: Black |                            |                                   |               |                  |                |                    |                   |
|---------------------------------------------------------------------|----------------------------|-----------------------------------|---------------|------------------|----------------|--------------------|-------------------|
| Part Number                                                         | Military Standard Part No. | Min Loop Tensile Strength Lbs (N) | Length Ref.   | Max. Bundle Dia. | "W" Width Ref. | "T" Thickness Ref. | Standard Pack Qty |
| WITA-18SF-UVB-M                                                     | MS3367-4-0                 | 18 (80)                           | 3.85 (97.8)   | .87 (22)         | .10 (2.5)      | .04 (1)            | 1000              |
| WIT-18R-UVB-M*                                                      |                            |                                   | 4.52 (114.8)  | 1.00 (25.4)      |                |                    | 1000              |
| WITA-18L-UVB-M                                                      |                            |                                   | 5.90 (150)    | 1.46 (37.1)      |                | .05 (1.2)          | 1000              |
| WITA-18V-UVB-M                                                      |                            |                                   | 7.87 (200)    | 2.13 (54.1)      |                |                    | 1000              |
| WITA-18X-UVB-M                                                      |                            |                                   | 15.75 (400)   | 4.56 (116)       |                |                    | 1000              |
| WITA-40R-UVB-C                                                      |                            | 40 (180)                          | 5.91 (150)    | 1.48 (37.6)      | .14 (3.6)      | .05 (1.3)          | 100               |
| WITA-40R-UVB-M                                                      |                            |                                   | 7.87 (200)    | 2.05 (52)        |                |                    | 1000              |
| WITA-40L-UVB-M                                                      |                            |                                   | 8.07 (205)    | 2.10 (53.3)      |                |                    | 1000              |
| WITA-40XL-UVB-M                                                     |                            |                                   | 11.81 (300)   | 3.27 (83)        |                | .055 (1.4)         | 1000              |
| WITA-40VL-UVB-M                                                     |                            |                                   |               |                  |                |                    | 1000              |
| WITA-50S-UVB-M                                                      | MS3367-1-0                 | 50 (222)                          | 6.30 (160)    | 1.52 (38.7)      | .18 (4.6)      | .05 (1.3)          | 1000              |
| WIT-50R-UVB-M                                                       |                            |                                   | 8.00 (203.2)  | 2.00 (50.8)      |                |                    | 1000              |
| WITA-50RL-UVB-M                                                     |                            |                                   | 11.02 (280)   | 3.03 (77)        |                |                    | 1000              |
| WIT-50L-UVB-M                                                       |                            |                                   | 15.40 (391.2) | 4.50 (114.3)     |                |                    | 1000              |
| WITA-50XL-UVB-C                                                     |                            |                                   | 25.00 (635)   | 7.48 (190)       |                |                    | 100               |
| WITA-120S-UVB-D                                                     |                            | 120 (534)                         | 8.60 (218)    | 2.01 (51)        | .30 (7.6)      | .06 (1.6)          | 500               |
| WITA-120R-UVB-D                                                     |                            |                                   | 15.75 (400)   | 4.45 (113)       |                |                    | 500               |
| WITA-120L-UVB-D                                                     |                            |                                   | 21.65 (550)   | 6.38 (162)       |                |                    | 500               |
| WITA-175R-UVB-L                                                     |                            |                                   | 24.00 (610)   | 7.02 (178)       |                | .07 (1.8)          | 50                |
| WITA-175L-UVB-Q                                                     |                            |                                   | 36.00 (914.4) | 10.91 (277)      |                |                    | 25                |

## WIT-V0

UL94 V0 Nylon 6/6 Cable Ties

| Material: UL94 V0 Nylon 6/6, RMS-75, Color: Natural |                                   |              |                  |                |                    |                   |
|-----------------------------------------------------|-----------------------------------|--------------|------------------|----------------|--------------------|-------------------|
| Part Number                                         | Min Loop Tensile Strength Lbs (N) | Length Ref.  | Max. Bundle Dia. | "W" Width Ref. | "T" Thickness Ref. | Standard Pack Qty |
| WIT-18R-V0-M*                                       | 18 (80)                           | 4.52 (114.8) | 1.00 (25.4)      | .10 (2.5)      | .04 (1)            | 1000              |
| WIT-50R-V0-M                                        | 50 (222)                          | 8.00 (203.2) | 2.00 (50.8)      | .19 (4.8)      | .05 (1.3)          | 1000              |

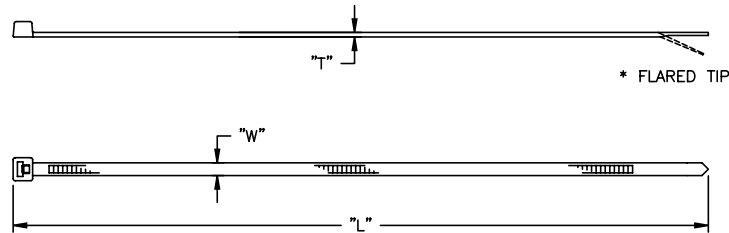
# CABLE TIES & ACCESSORIES

## WIT/WITA-HS/WIT-HT

Heat Stabilized and  
High Temperature Cable Ties

### Features

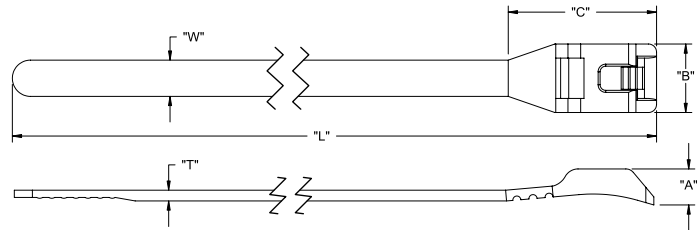
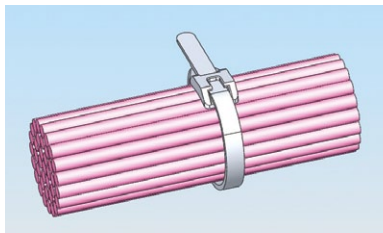
- HS Series is serviceable to 239°F (115°C)
- HT Series is serviceable to 286°F (141°C)



| Part Number    | Material                   | Color   | Min Loop Tensile Strength Lbs (N) | Length Ref.  | Max. Bundle Dia. | "W" Width Ref. | "T" Thickness Ref. | Standard Pack Qty |
|----------------|----------------------------|---------|-----------------------------------|--------------|------------------|----------------|--------------------|-------------------|
| WIT-18R-HS-M*  | UL94 V2 Nylon 6/6, RMS-47  | Black   | 18 (80)                           | 4.52 (114.8) | 1.00 (25.4)      | .10 (2.5)      | .04 (1)            | 1000              |
| WIT-18R-HT-M*  | UL94 V2 Nylon 4/6, RMS-109 | Natural | 40 (180)                          | 5.91 (150)   | 1.48 (37.6)      | .14 (3.6)      | .05 (1.3)          |                   |
| WITA-40R-HS-M  | UL94 V2 Nylon 6/6, RMS-47  | Black   | 50 (222)                          | 8.00 (203.2) | 2.00 (50.8)      | .19 (4.8)      | .05 (1.3)          |                   |
| WIT-50R-HS-M   | UL94 V2 Nylon 6/6, RMS-47  | Black   | 50 (222)                          | 8.00 (203.2) | 2.00 (50.8)      | .19 (4.8)      | .05 (1.3)          |                   |
| WIT-50R-HT-M   | UL94 V2 Nylon 4/6, RMS-109 | Natural | 50 (222)                          | 8.00 (203.2) | 2.00 (50.8)      | .19 (4.8)      | .05 (1.3)          |                   |
| WITA-50RL-HS-M | UL94 V2 Nylon 6/6, RMS-47  | Black   | 50 (222)                          | 11.02 (280)  | 3.03 (77)        | .19 (4.8)      | .05 (1.3)          | 1000              |

## WIT-LP

Low Profile Cable Ties



| Material: UL94 V2 Nylon 6/6, RMS-01<br>Color: Natural | Material: UVB Nylon 6/6, RMS-46<br>Color: Black | Min. Loop Tensile Strength lb (kg) | Bundle Diameter Range     | "A"         | "B"             | "C"              | "L" Ref.          | "T"         | "W"         | Std. Pack |
|-------------------------------------------------------|-------------------------------------------------|------------------------------------|---------------------------|-------------|-----------------|------------------|-------------------|-------------|-------------|-----------|
| WITLP-50R-M                                           | WITLP-50R-UVB-M                                 | 50 (22)                            | .375-1.750<br>(9.5-44.45) | .176 (4.47) | .337 (8.56)     | .690<br>(17.53)  | 7.500<br>(190.5)  | .053 (1.35) | .177 (4.5)  | 1,000     |
| WITLP-120R-C                                          | WITLP-120R-UVB-C                                | 120 (54)                           | .563-3.500<br>(14.3-88.9) | .270 (6.86) | .487<br>(12.37) | 1.380<br>(35.05) | 16.000<br>(406.4) | .075 (1.91) | .300 (7.62) | 100       |

## WIT-1/2A/3/3A

Cable Tie Installation Tools



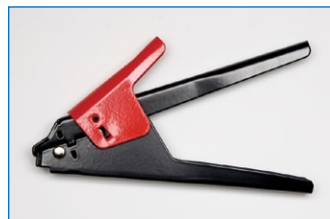
### WIT-1

- Lightweight, economical tool for job site installations and repairs
- For WIT/A-18 through -50 wire ties



### WIT-2A

- Heavy duty construction for Richco Series WIT/A-18, -40 and -50 wire ties
- Cuts cable tie flush when adjustable preset bundling tension is reached



### WIT-3

- For Richco WIT/A-120 and -175 wire ties



### WIT-3A

- Economy model for Richco Series WIT/A-18, -40 and -50 wire ties
- Glass reinforced Nylon provides lightweight durability

# CABLE TIES & ACCESSORIES

## WIT-RT

### Release Tab Wrap-It Tie



- UL #E71558 (except for WIT-RT-1)



Fig. 1

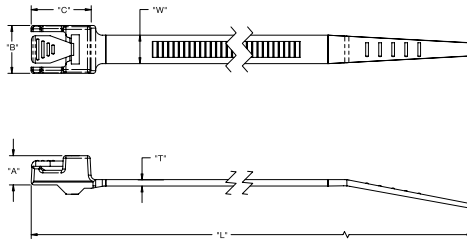
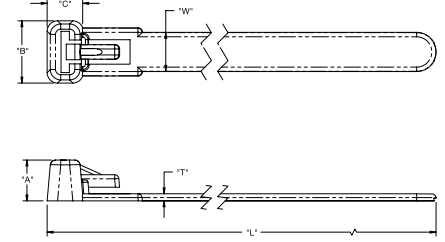


Fig. 2



| Material: UL94 V2 Nylon 6/6, RMS-01<br>Color: Natural | Min. Loop Tensile Strength lb (kg) | "L"            | Bundle Ø Range            | "W"        | "T"       | "A"       | "B"        | "C"        | Standard Pack | UVB Stabilized Nylon 6/6, RMS-46<br>Color: Black | Fig. |
|-------------------------------------------------------|------------------------------------|----------------|---------------------------|------------|-----------|-----------|------------|------------|---------------|--------------------------------------------------|------|
| NEW WIT-RT-1-M                                        | 30 (13)                            | 8-3/32 (206)   | 1/4 - 1-7/8 (6.4 - 48)    | .30 (7.6)  |           | .31 (7.8) | .47 (11.9) | .27 (6.8)  |               |                                                  | 2    |
| WIT-RT-0550-M                                         |                                    | 5-1/2 (139.7)  | 3/16 - 1-1/4 (4.8 - 31.8) |            |           |           |            |            |               |                                                  |      |
| WIT-RT-0800-M                                         | 40 (18)                            | 8 (203.2)      | 3/16 - 2 (4.8 - 50.8)     | .21 (5.3)  | .05 (1.3) | .24 (6.1) | .36 (9.1)  | .45 (11.4) | 1000          | Standard -UVB-M                                  |      |
| WIT-RT-1050-M                                         |                                    | 10-1/2 (266.7) | 3/16 - 2-1/2 (4.8 - 63.5) |            |           |           |            |            |               | Special -UVB-M                                   | 1    |
| WIT-RT-1525-Q                                         |                                    | 15-1/4 (387.4) | 2 - 4 (50.8 - 101.6)      |            |           |           |            |            |               |                                                  |      |
| WIT-RT-2150-Q                                         | 250 (113)                          | 21-1/2 (546.1) | 2 - 6 (50.8 - 152.4)      | .52 (13.2) | .09 (2.3) | .38 (9.7) | .80 (20.3) | .86 (21.8) | 25            | Special -UVB-Q                                   |      |
| WIT-RT-2775-Q                                         |                                    | 27-3/4 (704.9) | 2 - 8 (50.8 - 203.2)      |            |           |           |            |            |               |                                                  |      |

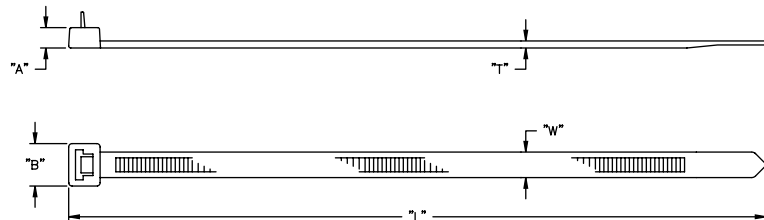
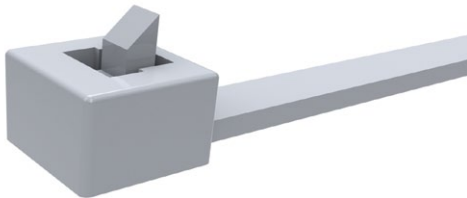
Other colors and materials are available by special order.

## WIT-R

### Releasable Wrap-It Tie



- UL #E71558 (except for WIT-50LR)



| UL94 V2 Nylon 6/6, RMS-01 Color: Natural | Min. Loop Tensile Strength lb (kg) | "L" Ref.         | Max. Bundle Ø | "W" Ref.  | "T" Ref.  | "A"       | "B"       | Standard Pack | UVB Stabilized Nylon 6/6, RMS-46<br>Color: Black |
|------------------------------------------|------------------------------------|------------------|---------------|-----------|-----------|-----------|-----------|---------------|--------------------------------------------------|
| WIT-50SR-M                               |                                    | 6 (152.4)        | 1-1/2 (38.1)  |           |           | .21 (5.3) | .31 (7.9) |               |                                                  |
| WIT-50RR-M                               | 50 (22)                            | 8 (203.2)        | 2 (50.8)      | .19 (4.8) | .05 (1.3) | .22 (5.6) | .34 (8.6) | 1000          | Standard -UVB-M                                  |
| NEW WIT-50LR-M                           |                                    | 11-21/32 (295.9) | 3 (76.2)      |           |           |           |           |               |                                                  |

Other colors and materials are available by special order.

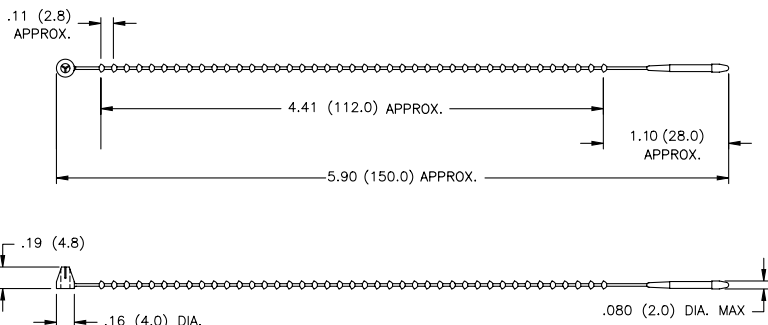
## LBT-18-01

### Locking Beaded Tie



- UL #E93670

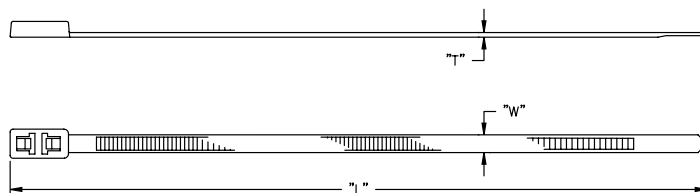
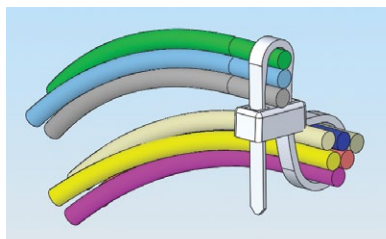
| Material: UV94 V2 Nylon 6/6, RMS-01 • Color: Natural |                              |                  |
|------------------------------------------------------|------------------------------|------------------|
| Part No.                                             | Standard Pack: 1,000 per Bag |                  |
|                                                      | Min. Loop Tensile lb (kg.)   | Max. Bundle Dia. |
| LBT-18-01                                            | 18 (8)                       | 1.4 (35.6)       |





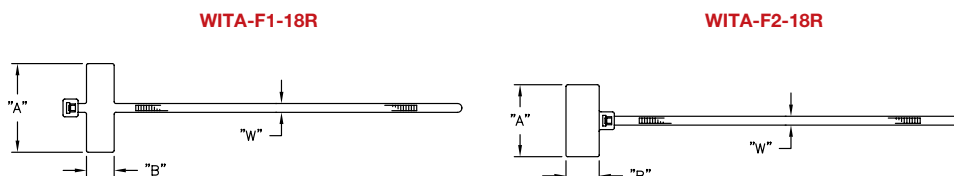
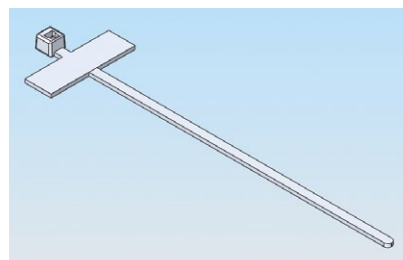
# CABLE TIES & ACCESSORIES

## WITA-DH Double-Loop Tie



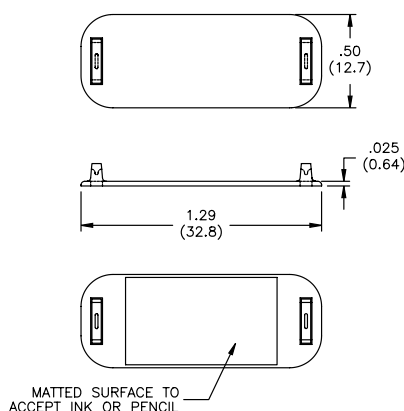
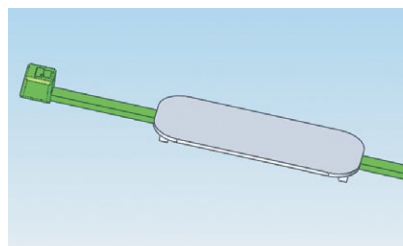
| Part Number                  |                                                | Min Loop<br>Tensile<br>Strength<br>Lbs (N) | Length Ref. | “W” Width<br>Ref | “T” Thickness<br>Ref. | Standard<br>Pack Qty |
|------------------------------|------------------------------------------------|--------------------------------------------|-------------|------------------|-----------------------|----------------------|
| Material                     |                                                |                                            |             |                  |                       |                      |
| UL94 V2 Nylon 6/6,<br>RMS-01 | UL94 V2 Weather Resistant<br>Nylon 6/6, RMS-46 |                                            |             |                  |                       |                      |
| Color: Natural               | Color: Black                                   |                                            |             |                  |                       |                      |
| WITA-50RLDH-M                | WITA-50RLDH-UVB-M                              | 50 (222)                                   | 8.86 (225)  | .19 (4.8)        | .05 (1.3)             | 1000                 |
| WITA-50LDH-M                 | WITA-50LDH-UVB-M                               |                                            | 14.56 (370) |                  |                       |                      |

## WITA-F1/F2 Marker Flag Wrap-It Tie



| Material: UL94 V2 Nylon 6/6, RMS-01, Color: Natural |                                   |             |                  |               |                    |          |           |                   |
|-----------------------------------------------------|-----------------------------------|-------------|------------------|---------------|--------------------|----------|-----------|-------------------|
| Part Number                                         | Min Loop Tensile Strength Lbs (N) | Length Ref. | Max. Bundle Dia. | "W" Width Ref | "T" Thickness Ref. | "A" Ref. | "B" Ref.  | Standard Pack Qty |
| WITA-F1-18R-M                                       | 18 (80)                           | 3.98 (100)  | .87 (22)         | .10 (2.5)     | .04 (1)            | 1 (25.4) | .31 (7.9) | 1000              |
| WITA-F2-18R-M                                       |                                   | 4.33 (110)  | .98 (25)         |               |                    |          |           |                   |

## WIT-MK-1 Marker Tag Wrap-It Tie



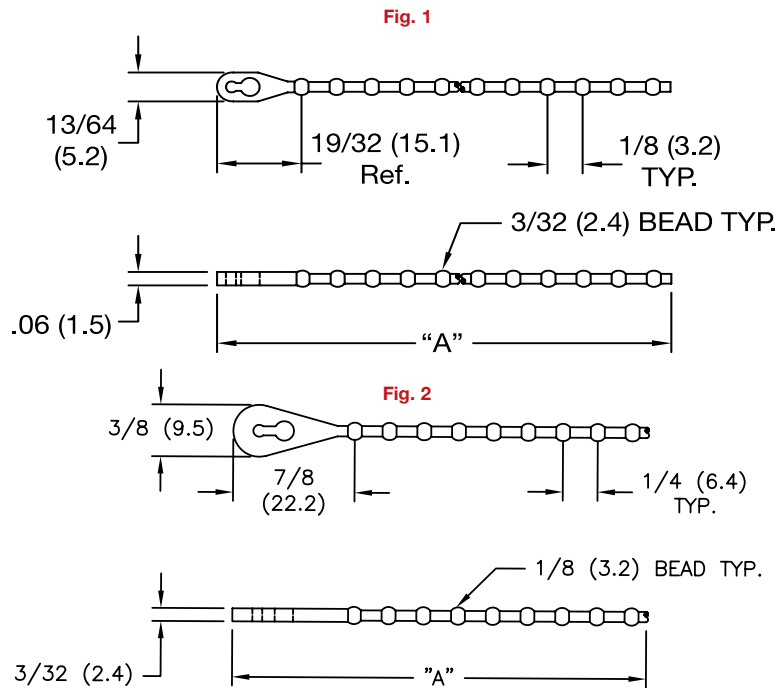
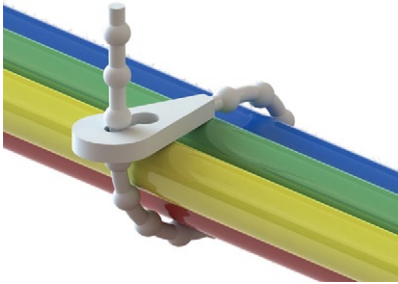
Material: UL94 V2 Nylon 6/6, RMS-01  
Color: Natural  
Standard Pack: 1,000 per Bag

### Features

- Can be used with WIT/WITA ties up to size WIT-50

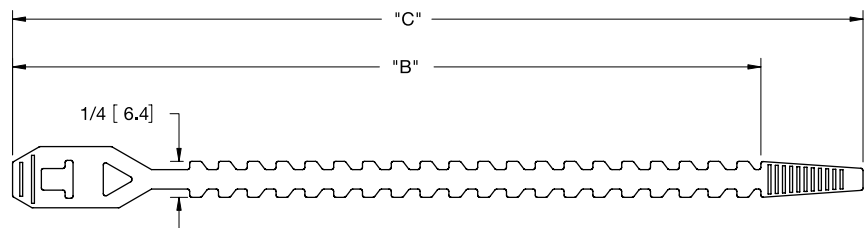
# CABLE TIES & ACCESSORIES

## BT Beaded Tie



| Standard Pack: 1,000 per bag |               |                                                         |      |                                       |                                          |                                        |                                         |                                                        |                                                          |
|------------------------------|---------------|---------------------------------------------------------|------|---------------------------------------|------------------------------------------|----------------------------------------|-----------------------------------------|--------------------------------------------------------|----------------------------------------------------------|
| Part No.<br>Prefix           | “A” Ref.      | Max. Bundle Diameter<br>(requires 3 bead<br>engagement) | Fig. | Color & Material Suffix               |                                          |                                        |                                         |                                                        |                                                          |
|                              |               |                                                         |      | Material:<br>PP, RMS-10<br>Color: Red | Material:<br>PP, RMS-10<br>Color: Yellow | Material:<br>PP, RMS-10<br>Color: Blue | Material:<br>PP, RMS-10<br>Color: Black | Material: UL94 V2<br>Nylon 6/6, RMS-01<br>Color: Black | Material: UL94 V2<br>Nylon 6/6, RMS-01<br>Color: Natural |
|                              |               |                                                         |      | -10-RD                                | -10-YL                                   | -10-BL                                 | -10-BK                                  | -01-BK                                                 | -01-NT                                                   |
| BT-2                         | 2.50 (63.5)   | 9/16 (14.3)                                             | 1    | Standard                              | Standard                                 | Standard                               | Special                                 | Special                                                | Standard                                                 |
| BT-4                         | 4.00 (101.6)  | 1 (25.4)                                                |      |                                       |                                          |                                        |                                         |                                                        |                                                          |
| BT-5                         | 5.00 (127)    | 1-1/4 (31.8)                                            |      |                                       |                                          |                                        |                                         |                                                        |                                                          |
| BT-6                         | 6.00 (152.4)  | 1-3/4 (44.5)                                            | 2    |                                       |                                          |                                        |                                         |                                                        |                                                          |
| BT-8                         | 8.75 (222.3)  | 2-3/8 (60.3)                                            |      |                                       |                                          |                                        |                                         |                                                        |                                                          |
| BT-10                        | 10.75 (273.1) | 3-1/8 (85.7)                                            |      |                                       |                                          |                                        |                                         |                                                        |                                                          |
| BT-12                        | 12.75 (323.9) | 3-5/8 (92.1)                                            |      |                                       |                                          |                                        |                                         |                                                        |                                                          |

## HT Hanking Tie

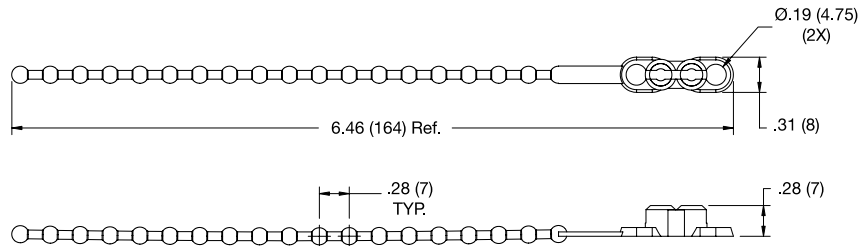
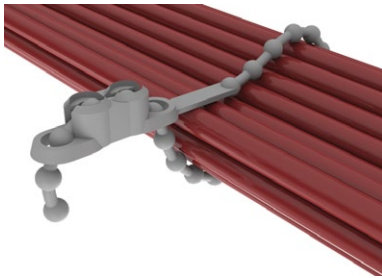


| Material: Polyethylene, RMS-134<br>Color: Natural | Max. Bundle<br>Diameter | "B" Ref.   | "C" Ref.   |
|---------------------------------------------------|-------------------------|------------|------------|
| Standard Pack: 1,000 per bag                      |                         |            |            |
| HT-3.9                                            | .91 (23)                | 3.19 (81)  | 3.90 (99)  |
| HT-4.9                                            | 1.10 (28)               | 4.21 (107) | 4.92 (125) |
| HT-5.9                                            | 1.42 (36)               | 5.20 (132) | 5.91 (150) |

# CABLE TIES & ACCESSORIES

## HTE-164-PE3L/1H

### Beaded Hanking Tie



#### Features

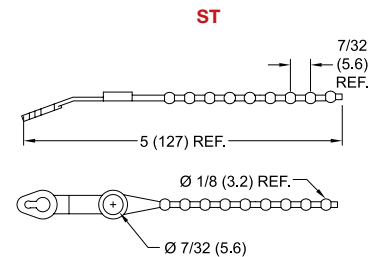
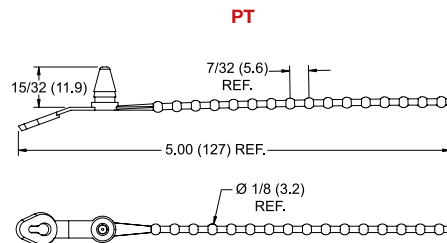
- Installed by threading the beaded length through the first hole, two beads are securely locked into place by hand and the remainder of the tie is passed through the last hole for extra cable security

#### HTE-164-PE3L/1H

Material: Polyethylene, RMS-155  
Color Natural

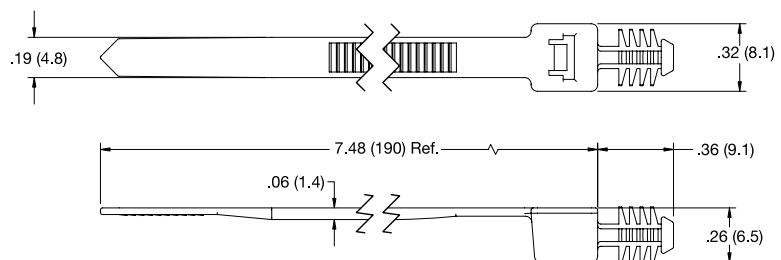
Standard Pack: 1,000 per bag

## PT/ST Beaded Wire Tie



| Mat'l: PP, RMS-10 | Mat'l: UL94 V2 Nylon 6/6, RMS-01 | Color   | Bundle Ø Range           | Mounting Method                       | Panel Thickness        | Standard Pack |
|-------------------|----------------------------------|---------|--------------------------|---------------------------------------|------------------------|---------------|
| PT-203            | PT-303                           | Black   | 1/4 - 1-1/4 (6.4 - 31.8) | Snap-lock in a Ø 1/4 (6.4) hole       | 1/32 - 1/8 (0.8 - 3.2) | 1000          |
| PT-205            | PT-305                           | Natural |                          | Ø 7/32 (5.6) clearance hole for screw | -                      |               |
| ST-205            | ST-305                           |         |                          |                                       |                        |               |

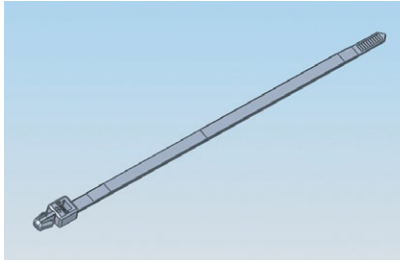
## WITBH Blind Hole Cable Ties



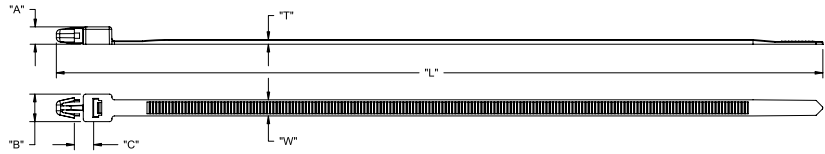
| Part No.     | Min. Loop Tensile Strength lb (kg.) | Max Bundle Dia | Hole Dia    | Min Panel Thickness | Color   | Material                          | Standard Pack |
|--------------|-------------------------------------|----------------|-------------|---------------------|---------|-----------------------------------|---------------|
| WITBH-50R    | 50 (22)                             | 1.75 (44.5)    | .250 (6.35) | .25 (6.35)          | Natural | UL94 V2 Nylon 6/6, RMS-01         | 1,000         |
| WITBH-50R-HS |                                     |                |             |                     | Black   | Heat Stabilized Nylon 6/6, RMS-47 |               |

# CABLE TIES & ACCESSORIES

## WIT-50RLA Push-Mount Ties



- UL #E71558 for WIT-50RLA-M only



| Standard Mat'l: UL94 V2<br>Nylon 6/6, RMS-01<br>Color: Natural | Min. Loop<br>Tensile<br>Strength<br>lb (kg) | "L" Length<br>Ref. | Max. Bundle<br>Diameter | "W" Width<br>Ref. | "T" Thickness<br>Ref. | "A"       | "B" Ref.  | "C" Ref.  | Hole Dia.                 | Panel<br>Thickness | Mat'l Variation<br>UVB Nylon 6/6,<br>RMS-46<br>Color: Black |
|----------------------------------------------------------------|---------------------------------------------|--------------------|-------------------------|-------------------|-----------------------|-----------|-----------|-----------|---------------------------|--------------------|-------------------------------------------------------------|
| Standard Pack: 1,000 per bag                                   |                                             |                    |                         |                   |                       |           |           |           |                           |                    | -UVB                                                        |
| WIT-50RLA-M                                                    | 50 (22)                                     | 8.87 (225.4)       | 2.00 (50.8)             | .19 (4.8)         | .05 (1.3)             | .20 (5.1) | .32 (8.1) | .21 (5.4) | .187 ± .003 (4.8 ± 0.08)  | .093 (2.36)        | Special                                                     |
| WIT-50RLA-1                                                    |                                             | 5.32 (135)         | 1.00 (25.4)             |                   |                       | .26 (6.5) |           | .24 (6)   | .250 ± .003 (6.35 ± 0.08) | .125 (3.18)        |                                                             |
| WIT-50RLA-2                                                    |                                             | 6.69 (170)         | 1.50 (38.1)             |                   |                       |           |           |           |                           |                    |                                                             |
| WIT-50RLA-3                                                    |                                             | 7.87 (200)         | 1.75 (44.5)             |                   |                       |           |           |           |                           |                    |                                                             |

## WIT-RA/SA Arrowhead Ties

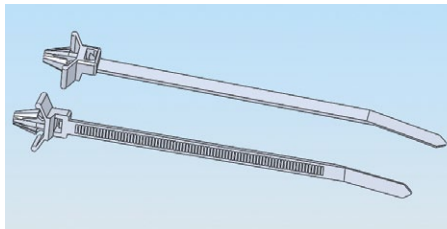


Fig. 1

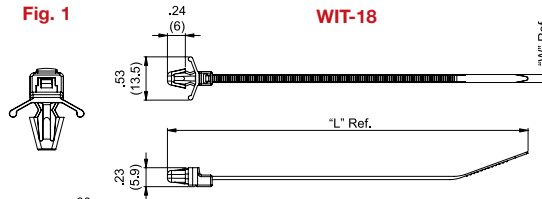
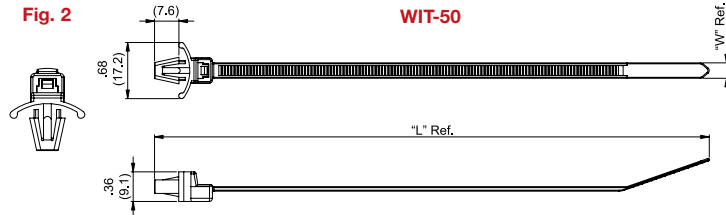


Fig. 2



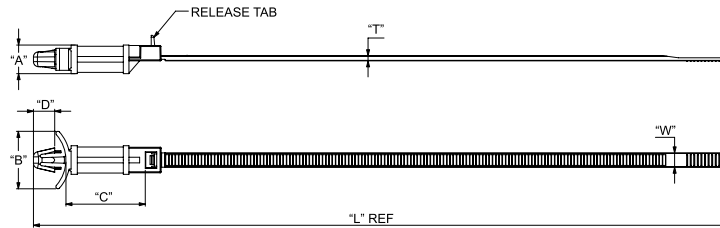
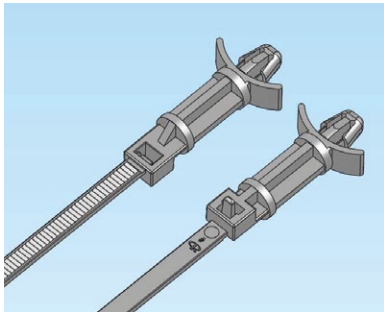
| Standard Material:<br>UL94 V2 Nylon 6/6,<br>RMS-01<br>Color: Natural | Fig. | Min. Loop<br>Tensile<br>Strength<br>lb (kg) | "L" Ref.   | Max.<br>Bundle Ø | "W" Ref.  | Mounting<br>Hole Ø | Panel<br>Thickness       | Color & Material Variations Suffix             |                                              |                                                            |                                                            | Standard<br>Pack: |     |  |  |
|----------------------------------------------------------------------|------|---------------------------------------------|------------|------------------|-----------|--------------------|--------------------------|------------------------------------------------|----------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-------------------|-----|--|--|
|                                                                      |      |                                             |            |                  |           |                    |                          | UL94 V0 Nylon 6/6,<br>RMS-75<br>Color: Natural | UL94 V2 Nylon 6/6,<br>RMS-01<br>Color: Black | High Temp. UL94 V2<br>Nylon 4/6, RMS-109<br>Color: Natural | UV Stabilized UL94 V2<br>Nylon 6/6, RMS-46<br>Color: Black |                   |     |  |  |
|                                                                      |      |                                             |            |                  |           |                    |                          | Replace -01 with -V0                           | Add "BK"                                     | Add "-HT"                                                  | Add "-UVB"                                                 |                   |     |  |  |
| WIT-18RA-01                                                          | 1    | 18 (8)                                      | 4.29 (109) | .83 (21)         | .10 (2.5) | .19 (4.8)          | .06 (1.6)                | -                                              | Special Order                                | Special Order                                              | Special Order                                              | 1,000             |     |  |  |
| WIT-50SA-01                                                          |      | 50 (22)                                     | 5.24 (133) | .91 (23)         | .19 (4.8) | .25 (6.4)          |                          | Special Order                                  |                                              |                                                            |                                                            |                   |     |  |  |
| WIT-50SRA-01                                                         |      |                                             | 6.81 (173) | 1.42 (36)        |           |                    |                          |                                                |                                              |                                                            |                                                            |                   |     |  |  |
| WIT-50RA-01                                                          |      |                                             | 7.80 (198) | 1.69 (43)        |           |                    |                          |                                                |                                              |                                                            |                                                            |                   |     |  |  |
| WIT-50SA-1-01                                                        | 2    |                                             | 5.24 (133) | .91 (23)         |           | .19 (4.8)          | .25 - .27<br>(6.4 - 6.8) | .03 - .08<br>(0.8 - 2)                         | Special Order                                |                                                            |                                                            |                   | 500 |  |  |
| WIT-50SRA-1-01                                                       |      | 6.81 (173)                                  | 1.42 (36)  | 1,000            |           |                    |                          |                                                |                                              |                                                            |                                                            |                   |     |  |  |
| WIT-50RA-1-01                                                        |      | 7.80 (198)                                  | 1.69 (43)  | 500              |           |                    |                          |                                                |                                              |                                                            |                                                            |                   |     |  |  |

# CABLE TIES & ACCESSORIES

## WIT-30RRA Push-Mount Ties



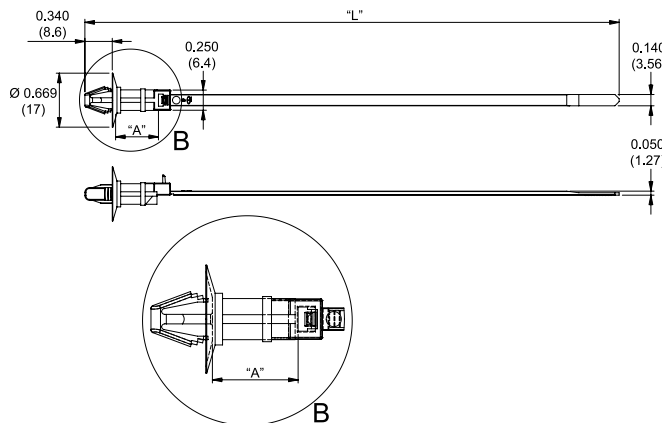
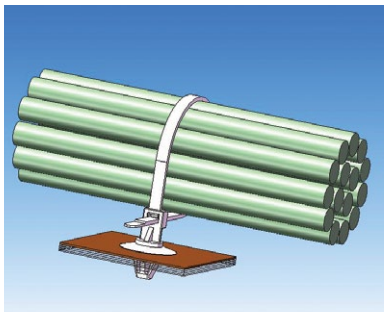
• UL#E17558 for part numbers WIT-30RRA-X only



| Standard Pack: 1000 per bag                              |                                          |               |                  |               |               |               |                |             |               |                  |                             |                                                    |  |
|----------------------------------------------------------|------------------------------------------|---------------|------------------|---------------|---------------|---------------|----------------|-------------|---------------|------------------|-----------------------------|----------------------------------------------------|--|
| Material: UL94 V2 Nylon 6/6,<br>RMS-01<br>Color: Natural | Min. Loop<br>Tensile Strength<br>lb (kg) | “L”<br>Ref.   | Max.<br>Bundle Ø | “W”<br>Ref.   | “T”<br>Ref.   | “A”           | “B”<br>Ref.    | “C”<br>Ref. | “D” Ref.      | Hole Ø ±<br>0.08 | Panel<br>Thickness          | UV Stabilized Nylon<br>6/6, RMS-46<br>Color: Black |  |
|                                                          |                                          |               |                  |               |               |               |                |             |               |                  |                             | -UVB-M                                             |  |
| WIT-30RRA-4-M                                            | 30 (13)                                  | 6.312 (160.3) | 1.250<br>(31.8)  | .141<br>(3.6) | .051<br>(1.3) | .279<br>(7.1) | .562<br>(14.3) | .279 (7.1)  | .210<br>(5.3) | .187<br>(4.8)    | .030 -<br>.078<br>(0.8 - 2) | Special                                            |  |
| WIT-30RRA-8-M                                            |                                          | 6.562 (166.7) |                  |               |               |               |                | .531 (13.5) |               |                  |                             |                                                    |  |
| WIT-30RRA-12-M                                           |                                          | 6.812 (173)   |                  |               |               |               |                | .779 (19.8) |               |                  |                             |                                                    |  |
| WIT-30RRA-16-M                                           |                                          | 7.062 (179.4) |                  |               |               |               |                | 1.00 (25.4) |               |                  |                             |                                                    |  |
| WIT-30RRAA-4-M                                           |                                          | 6.362 (161.6) |                  |               |               | .311<br>(7.9) | .562<br>(14.3) | .279 (7.1)  | .259<br>(6.6) | .250<br>(6.35)   |                             |                                                    |  |
| WIT-30RRAA-8-M                                           |                                          | 6.614 (168)   |                  |               |               |               |                | .531 (13.5) |               |                  |                             |                                                    |  |
| WIT-30RRAA-12-M                                          |                                          | 6.862 (174.3) |                  |               |               |               |                | .779 (19.8) |               |                  |                             |                                                    |  |
| WIT-30RRAA-16-M                                          |                                          | 7.114 (180.7) |                  |               |               |               |                | 1.00 (25.4) |               |                  |                             |                                                    |  |
| Other materials available by special order.              |                                          |               |                  |               |               |               |                |             |               |                  |                             |                                                    |  |

## WIT-30RCA

Releasable Cupped Cable Ties



| Material: UL94 V2 Nylon 6/6, <i>RMS-01*</i> Color: Natural                                                                                                                                                                         |               |              |                                      | Standard Pack: 1,000 per bag |                           |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|--------------------------------------|------------------------------|---------------------------|---------------------------|
| Part No.                                                                                                                                                                                                                           | "L" Ref.      | "A"          | Min. Loop Tensile Strength lb. (kg.) | Bundle Diameter              | Hole Diameter             | Panel Thickness           |
| WIT-30RCA-4-M                                                                                                                                                                                                                      | 6.326 (160.7) | 0.279 (7.1)  | 30 (13)                              | 1.250 (31.8)                 | Ø 0.236 - 0.255 (6 - 6.5) | 0.023 - 0.098 (0.6 - 2.5) |
| WIT-30RCA-8-M                                                                                                                                                                                                                      | 6.625 (168.3) | 0.531 (13.5) |                                      |                              |                           |                           |
| WIT-30RCA-12-M                                                                                                                                                                                                                     | 6.847 (174.6) | 0.779 (19.8) |                                      |                              |                           |                           |
| WIT-30RCA-16-M                                                                                                                                                                                                                     | 7.094 (180.2) | 1.00 (25.4)  |                                      |                              |                           |                           |
| <i>*Also available in UV Stabilized Material (RMS-46 Black), Heat Stabilized Material (RMS-47 Black), and UL94 V0 Nylon (RMS-19 Natural).<br/>To order, add -IIVB, -HS, or -V0 before the -M in the part number, respectively.</i> |               |              |                                      |                              |                           |                           |



Richco®

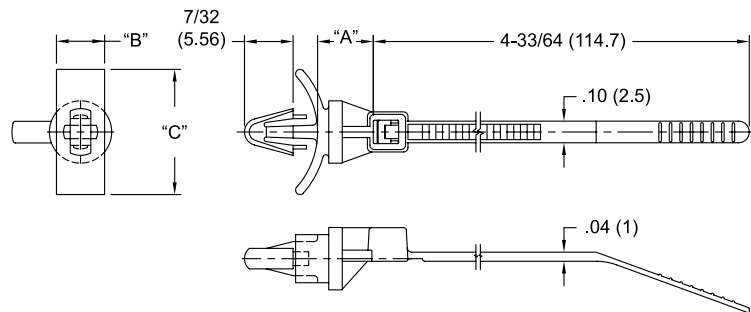
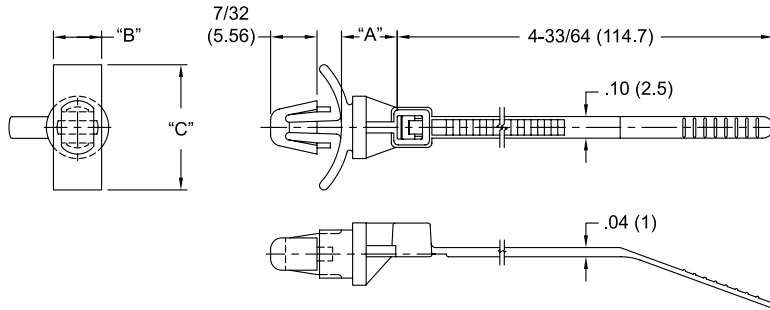
To locate a distributor near you, visit [www.richco-inc.com](http://www.richco-inc.com)

# CABLE TIES & ACCESSORIES

## WIT-18RA Self-Mount Ties



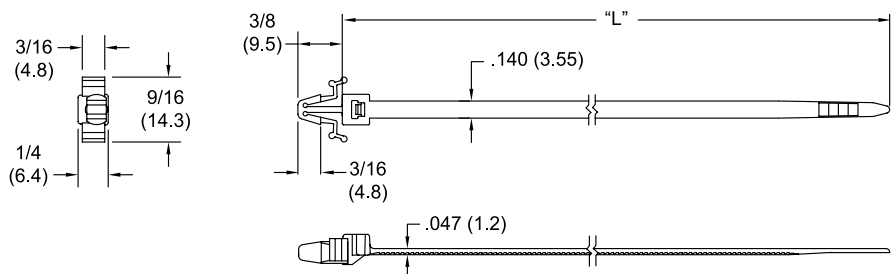
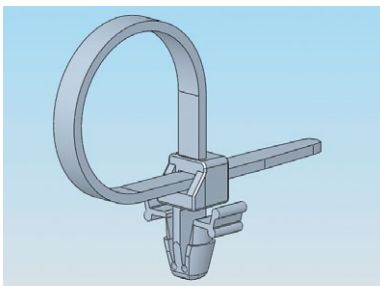
• UL #E71558



| Standard Pack: 1000 per bag                              |                                       |                  |           |                |                 |                         |                          |                                                    |        |
|----------------------------------------------------------|---------------------------------------|------------------|-----------|----------------|-----------------|-------------------------|--------------------------|----------------------------------------------------|--------|
| Material: UL94 V2 Nylon 6/6,<br>RMS-01<br>Color: Natural | Min. Loop Tensile<br>Strength lb (kg) | Max.<br>Bundle Ø | "A"       | "B"            | "C"             | Hole Ø ± .003<br>(0.08) | Panel<br>Thickness       | UV Stabilized Nylon 6/6,<br>RMS-46<br>Color: Black | Figure |
|                                                          |                                       |                  |           |                |                 |                         |                          | -UVB-M                                             |        |
| WIT-18RA-4-01-M                                          | 18 (8)                                | 3/4<br>(19.1)    | 1/4 (6.4) | 7/32<br>(5.56) | 9/16<br>(14.29) | .187 (4.75)             | .031 - .078<br>(0.8 - 2) | Special                                            | 1      |
| WIT-18R1A-4-01-M                                         |                                       |                  |           |                |                 | .156 (4)                |                          |                                                    | 2      |
| WIT-18R2A-4-01-M                                         |                                       |                  |           | .11<br>(2.79)  | 35/64<br>(13.9) | .187<br>(4.75)          |                          |                                                    | 1      |

H

## WIT-30XAR1-2 Releasable Arrowhead Ties



| Standard Pack: 1000 per bag                              |                                       |              |               |                         |                          |
|----------------------------------------------------------|---------------------------------------|--------------|---------------|-------------------------|--------------------------|
| Material: UL94 V2 Nylon 6/6,<br>RMS-01<br>Color: Natural | Min. Loop Tensile<br>Strength lb (kg) | "L" Ref.     | Max. Bundle Ø | Hole Ø ± .003<br>(0.08) | Panel<br>Thickness       |
| WIT-30RAR1-2                                             | 30 (13)                               | 4.75 (120.7) | 1.00 (25.4)   | .189 (4.8)              | .079 - .094<br>(2 - 2.4) |
| WIT-30LAR1-2                                             |                                       | 5.75 (146)   | 1.25 (31.8)   |                         |                          |

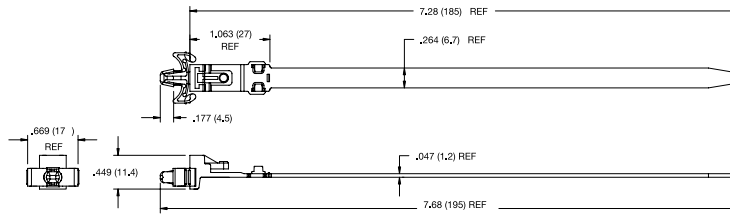
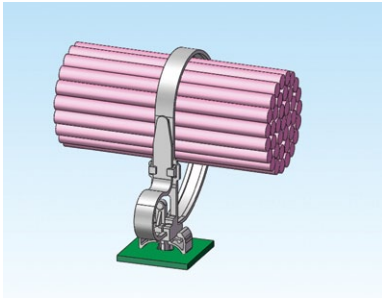


# CABLE TIES & ACCESSORIES

## WIT-40LAR

Releasable Arrowhead Ties

**NEW**

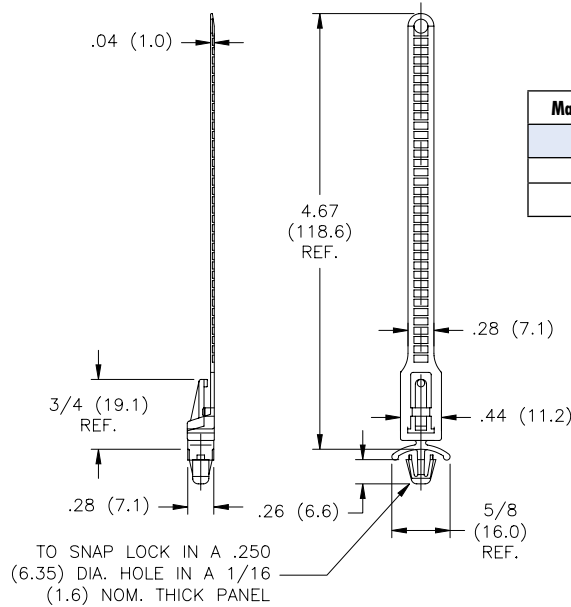
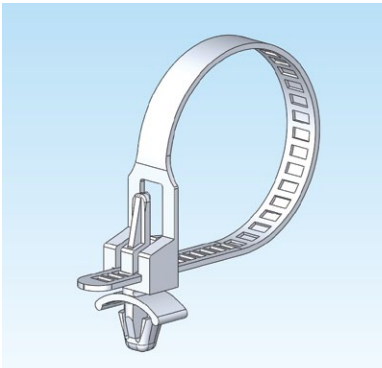


| Part No.  | Min. Loop Tensile Strength lb (kg.) | Max Bundle Dia | Hole Dia            | Panel Thickness     | Color | Material                   | Standard Pack |
|-----------|-------------------------------------|----------------|---------------------|---------------------|-------|----------------------------|---------------|
| WIT-40LAR | 40 (18)                             | 1.97 (50)      | .187±.003 (4.8±.08) | .020-.091 (0.5-2.3) | Black | UL 94 V2 Nylon 6/6, RMS-01 | 1,000         |

Other colors and materials are available by special order.

## TOAH-18-01

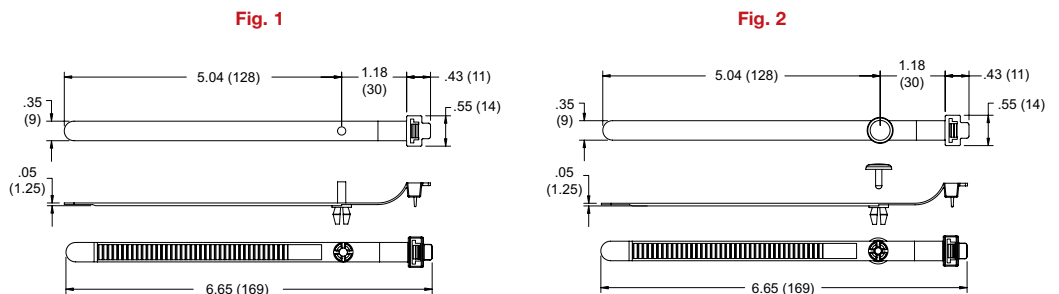
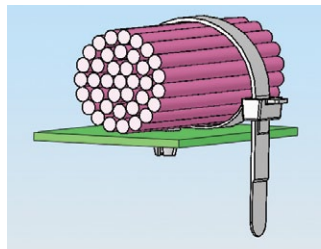
Tie On Arrowhead



|                                                           |
|-----------------------------------------------------------|
| <b>Material:</b> UL94 V2 Nylon 6/6, RMS-01 Color: Natural |
| <b>Standard Pack:</b> 1,000 per bag                       |
| Maximum Bundle Diameter 1-1/8 (28.5)                      |
| Black color available by special order                    |

## SRRCT

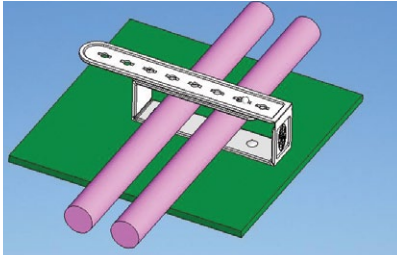
Rivet Mount Cable Tie



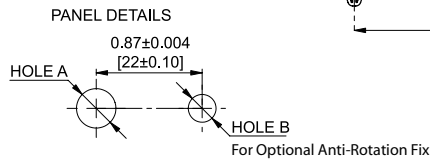
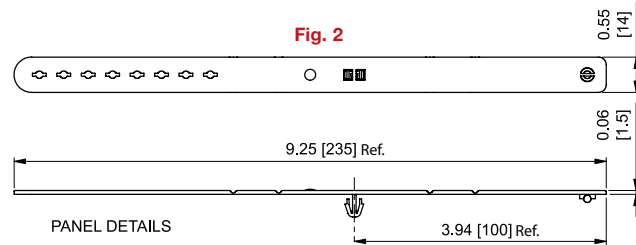
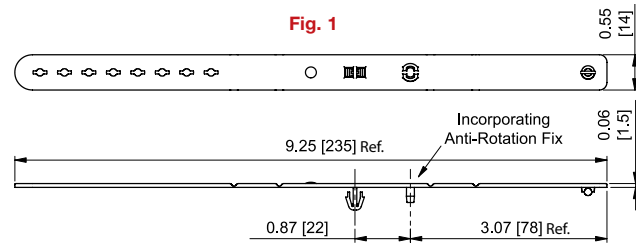
| Strap Material: UL94 V2 Nylon 6/6, RMS-01 Color: Black<br>Rivet Pin Material: UL94 V2 Nylon Color: Black |                                   |               |          |                 |                    |               |      |
|----------------------------------------------------------------------------------------------------------|-----------------------------------|---------------|----------|-----------------|--------------------|---------------|------|
| Part No.                                                                                                 | Max. Loop Tensile Strength lb (N) | Max. Bundle Ø | Hole Ø   | Panel Thickness | Rivet Pin Material | Standard Pack | Fig. |
| SRRCT-1                                                                                                  | 56 (250)                          | .40 (1.58)    | .276 (7) | .098 (2.5)      | RMS-01             | 200           | 1    |
| SRRCT-2                                                                                                  |                                   |               |          |                 | RMS-52             | 100           | 2    |

# CABLE TIES & ACCESSORIES

## CMS Cable Management Strap



**NEW**



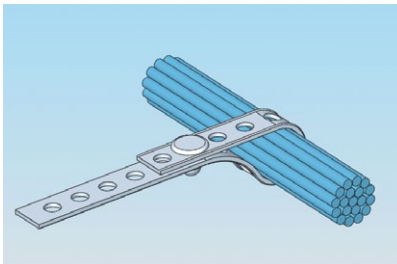
**Material: UL94 V0 Nylon 6/6, RMS-19 Color: Natural**

**Standard Pack: 250 per bag**

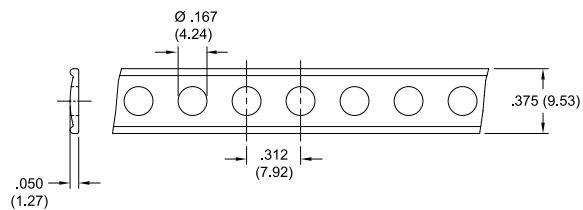
| Part No. | Panel Hole A    | Anti-Rotation Panel Hole B | Panel Thickness     | Max. Bundle (W x H)      | Figure |
|----------|-----------------|----------------------------|---------------------|--------------------------|--------|
| CMS-1    | Ø 0.236 - 0.256 | Ø 0.138±0.002 [Ø 3.5±0.05] | 0.138±0.008 [3±0.2] | 2.76 x 1.12<br>(70 x 30) | 1      |
| CMS-2    | [Ø6 - 6.5]      | -                          |                     |                          | 2      |

Parts are also available in Black and Gray color. To order, add BK or GY to the end of the part number, respectively.

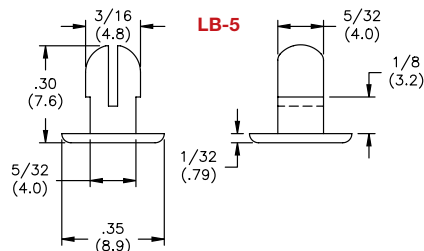
## RNS/LB Nylon Strap and Locking Button



**RNS-167**



**LB-5**

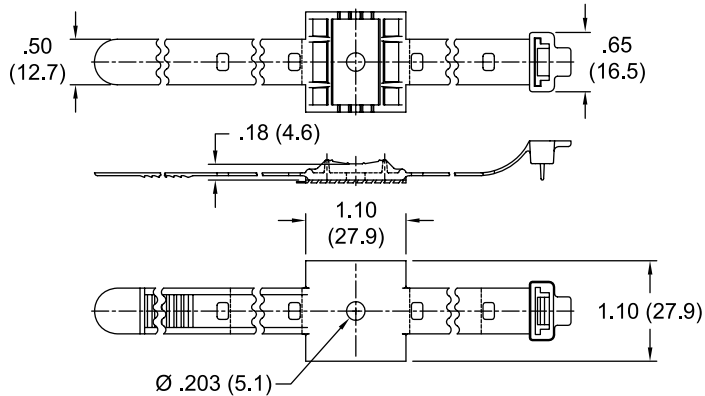
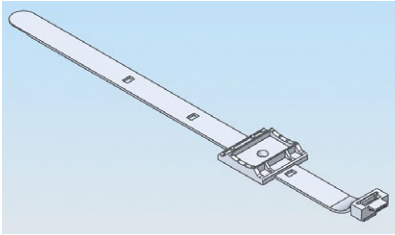


| Part No. | Material                  | Color | Standard Pack |
|----------|---------------------------|-------|---------------|
| RNS-167  | UL94 HB Nylon 6/6, RMS-17 | Black | 100 Foot Roll |
| LB-5     | UL94 V2 Nylon 6/6, RMS-01 |       | 100           |

# CABLE TIES & ACCESSORIES

## UMS

### Universal Mounting Strap

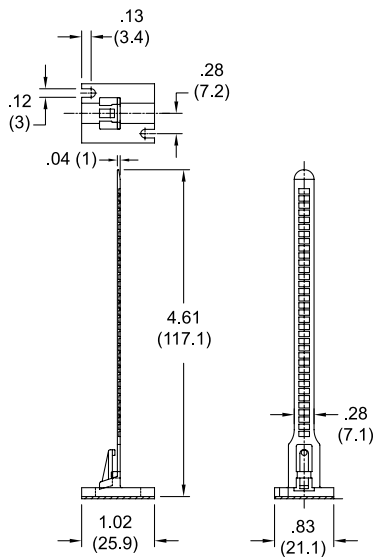
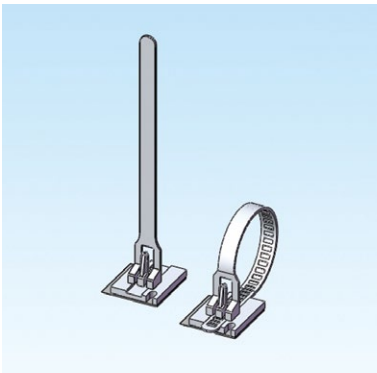


| For Panel Thickness       | Use Richco Rivet No. |
|---------------------------|----------------------|
| Up to 0.018 (up to 0.5)   | SR-5045              |
| 0.018 - 0.058 (0.5 - 1.5) | SR-5055              |
| 0.058 - 0.097 (1.5 - 2.5) | SR-5065              |
| 0.097 - 0.137 (2.5 - 3.5) | SR-5075              |
| 0.137 - 0.176 (3.5 - 4.5) | SR-5085              |
| 0.176 - 0.215 (4.5 - 5.5) | SR-5095              |
| 0.215 - 0.255 (5.5 - 6.4) | SR-5105              |

| Material: UL94 HB Nylon 6/6, RMS-45 Color: Black |                                        |               |                                                |
|--------------------------------------------------|----------------------------------------|---------------|------------------------------------------------|
| Standard Pack: 100 per bag                       |                                        |               |                                                |
| Part No. without adhesive                        | Part No. with Acrylic Adhesive, RMS-15 | Max. Bundle Ø | Mounting Methods                               |
| UMS-16-45                                        | UMS-16-45A-RT                          | 1 (25.4)      | #6 or M4 screw; rivet (see chart); or adhesive |
| UMS-24-45                                        | UMS-24-45A-RT                          | 1-1/2 (38.1)  |                                                |
| UMS-32-45                                        | UMS-32-45A-RT                          | 2 (50.8)      |                                                |

## TOBS-18-01A-RT

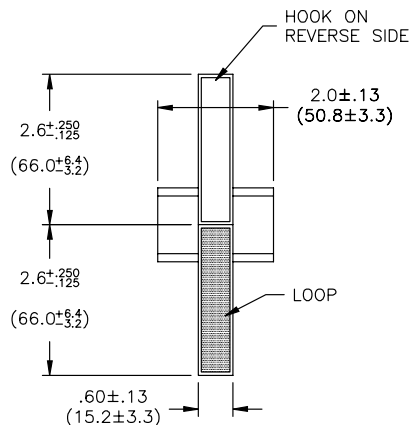
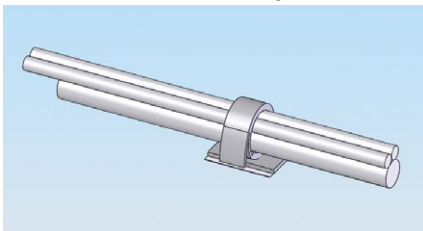
### Adhesive/Screw Mount Tie



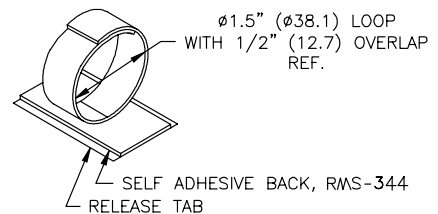
| Material: UL94 V2 Nylon 6/6, RMS-01 Color: Black |               |                      |
|--------------------------------------------------|---------------|----------------------|
| Standard Pack: 1000 per bag                      |               |                      |
| Part No.                                         | Max. Bundle Ø | Slots to Accommodate |
| TOBS-18-01A-RT                                   | 1-1/8 (28.5)  | #4 (M2.5)            |
| 1/32 (0.8) Thick Acrylic Adhesive Tape, RMS-15   |               |                      |
| Available without tape by special order          |               |                      |

## RKWB-1

### Kwik Wrap on Base Hook & Loop

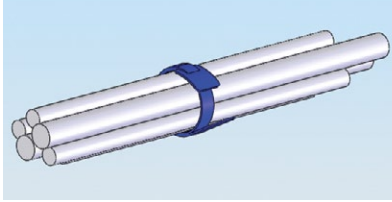


| Material: Hook and Loop, RMS-343 Color: Black |
|-----------------------------------------------|
| Standard Pack: 100 per bag                    |

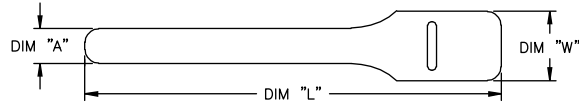


# CABLE TIES & ACCESSORIES

## RKW Kwik Wrap Hook & Loop

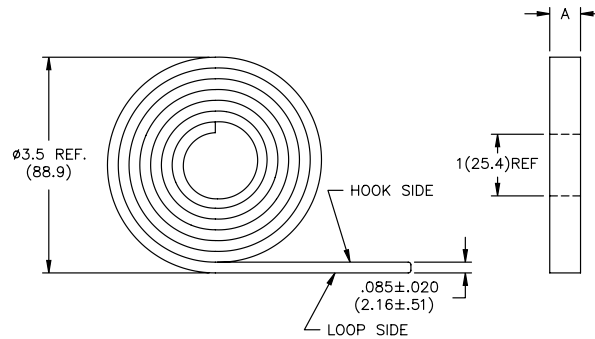


See page 108 for flat tie holder (FTH-27) for RKW series



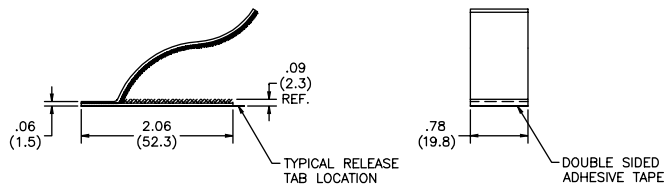
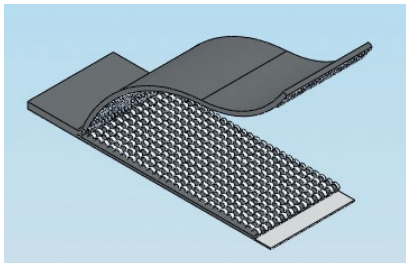
| Material: Low Density Polyethylene Hook, RMS-249 • Nylon Knit Loop, RMS-251<br>Color: Black                    |                            |                  |                  |
|----------------------------------------------------------------------------------------------------------------|----------------------------|------------------|------------------|
| Part No.                                                                                                       | Standard Pack: 100 per bag |                  |                  |
|                                                                                                                | "A" ± 1/8 (3.2)            | "W" ± .125 (3.2) | "L" ± 1/2 (12.7) |
| RKW-6-6-BK                                                                                                     | 3/8 (9.5)                  | .75 (19.1)       | 6 (152.4)        |
| RKW-8-6-BK                                                                                                     | 1/2 (12.7)                 | 1.0 (25.4)       | 8 (203.2)        |
| RKW-8-8-BK                                                                                                     |                            |                  | 11 (279.4)       |
| RKW-8-11-BK                                                                                                    |                            |                  | 15 (381)         |
| RKW-12-15-BK                                                                                                   | 3/4 (19.1)                 | 1.5 (38.1)       |                  |
| Colors: White (-W), Blue (-BL), Red (-RD), Yellow (-YL), Green (-GN), Orange (-OR) available by special order. |                            |                  |                  |

## RKWR-1-BK Kwik Wrap on a Roll Hook & Loop



| Material: Low Density Polyethylene Hook, RMS-249 • Nylon Knit Loop, RMS-251<br>Color: Black |                               |                 |
|---------------------------------------------------------------------------------------------|-------------------------------|-----------------|
| Part No.                                                                                    | Standard Pack: 1 roll per Bag |                 |
|                                                                                             | "A"                           | Total Length    |
| RKWR-1-BK                                                                                   | 3/4 (19.1)                    | 5 Yards (4.57m) |

## RKWFA-16-300 Kwik Wrap on Adhesive Hook & Loop



| Material: Low Density Polyethylene Hook, RMS-249 • Nylon Knit Loop, RMS-251. Acrylic Adhesive, RMS-113 Color: Black |  |
|---------------------------------------------------------------------------------------------------------------------|--|
| Standard Pack: 100 pieces                                                                                           |  |
| Maximum Recommended Holding Dia: .75 (19.05)                                                                        |  |

# CABLE TIES & ACCESSORIES

## FTH-27

### Flat Tie Holder for Kwik Wrap

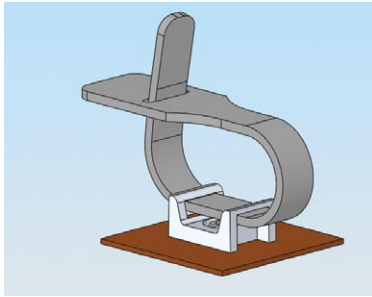


Fig. 1

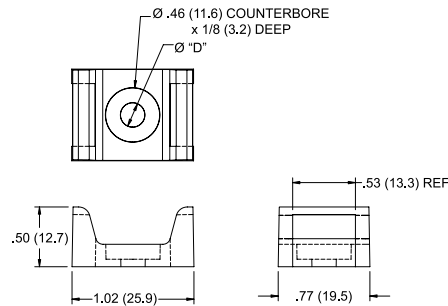
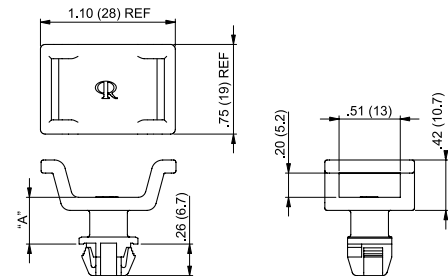


Fig. 2



| Material: UL94 V2 Nylon 6/6, RMS-01* | Color   | "D"        | "A"      | Mounting Method                      | Panel Thickness     | Accepts RKW ties    | Fig.1 |
|--------------------------------------|---------|------------|----------|--------------------------------------|---------------------|---------------------|-------|
| FTH-27-RS-01                         | Natural | .205 (5.2) | -        | #10 (M5) Screw or Rivets (see table) | -                   | Up to .51 (13) Wide | 1     |
| FTH-27-12-01                         | Natural | .230 (5.8) | -        | #10 (M5) or #12 (M5) Screw           | -                   |                     |       |
| NEW FTH-27-1-01BK                    | Black   | -          | .12 (3)  | .37 (9.5)                            | .03 - .08 (0.8 - 2) | Up to .51 (13) Wide | 2     |
| NEW FTH-27-2-01BK                    | Black   | -          | .39 (10) | Square Hole                          | .03 - .08 (0.8 - 2) |                     |       |

\*Available in UL94 V0 material by special order. To order, replace -01 with -19.

| MOUNTING RIVETS FOR FTH-27-RS-01 |              |                    |
|----------------------------------|--------------|--------------------|
| Panel Thickness                  | Panel Hole Ø | Use Rivet Part No. |
| .035 - .075 (0.9 - 1.9)          | .201 (5.1)   | SR-5055            |
| .075 - .114 (1.9 - 2.9)          |              | SR-5065            |
| .114 - .154 (2.9 - 3.9)          |              | SR-5075            |
| .154 - .193 (3.9 - 4.9)          |              | SR-5085            |
| .193 - .232 (4.9 - 5.9)          |              | SR-5095            |
| .232 - .272 (5.9 - 6.9)          |              | SR-5105            |

See page 47 for rivets

## FTH/MFTH Flat Tie Holder



• UL #E71558

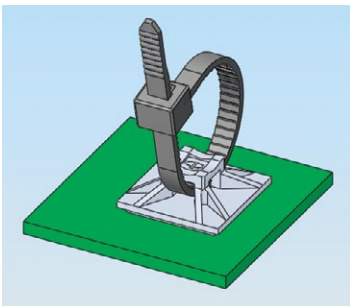


Fig. 1

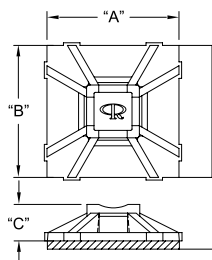


Fig. 2

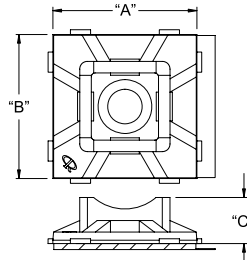
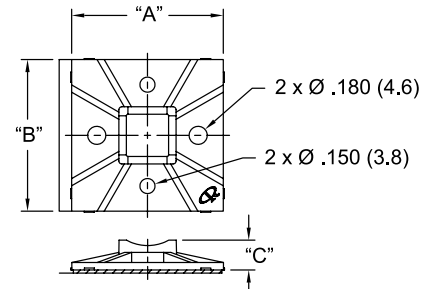


Fig. 3

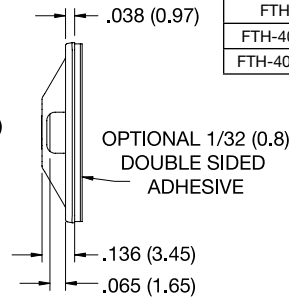
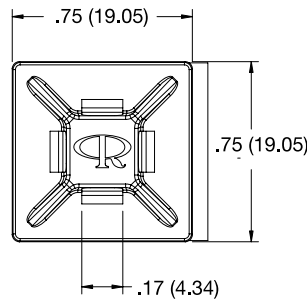


| Material: UL94 V2 Nylon 6/6, RMS-01*<br>Color: Natural | Adhesive        | Figure | Used with Ties        | "A"          | "B"          | "C"        | Recommended Mounting Screw   | Standard Package Suffix |           | UV Stabilized Nylon 6/6, RMS-46 Color: Black<br>-UVB-C or -UVB-M |
|--------------------------------------------------------|-----------------|--------|-----------------------|--------------|--------------|------------|------------------------------|-------------------------|-----------|------------------------------------------------------------------|
|                                                        |                 |        |                       |              |              |            |                              | 100 (-C)                | 1000 (-M) |                                                                  |
| MFTH-2-01A-RT                                          | Acrylic, RMS-15 | 1      | WIT/WITA -18          | 1/2 (12.7)   | 1/2 (12.7)   | 9/64 (3.5) | -                            | Standard                | Standard  | Special                                                          |
| MFTH-2-01A1-RT                                         | Rubber, RMS-102 |        | WIT/WITA -18 and -40  | 3/4 (19.1)   | 3/4 (19.1)   | .24 (6.1)  | #6 (M3.5) Flat Head          |                         |           | Standard                                                         |
| FTH-5A-RT                                              | Acrylic, RMS-15 | 2      | WIT/WITA -18 and -40  | 3/4 (19.1)   | 3/4 (19.1)   | .24 (6.1)  | #6 (M3.5) Flat Head          |                         |           | Special                                                          |
| FTH-5A1-RT                                             | Rubber, RMS-102 |        | WIT/WITA -50          | 1 (25.4)     | 1 (25.4)     | .28 (7.1)  | #8 (M4) Flat Head            |                         |           | Standard                                                         |
| FTH-5-01                                               | None            |        | WIT/WITA -50          | 1 (25.4)     | 1 (25.4)     | .28 (7.1)  | #8 (M4) Flat Head            |                         |           | Special                                                          |
| FTH-7A-RT                                              | Acrylic, RMS-15 |        | WIT/WITA -50          | 1 (25.4)     | 1 (25.4)     | .28 (7.1)  | #8 (M4) Flat Head            |                         |           | Standard                                                         |
| FTH-7A1-RT                                             | Rubber, RMS-102 | 3      | WIT/WITA -50 thru 120 | 1-1/2 (38.1) | 1-1/2 (38.1) | .30 (7.6)  | 2 x #8 (M4) or 2 x #6 (M3.5) | Special                 | Special   | Special                                                          |
| FTH-7-01                                               | None            |        | WIT/WITA -50 thru 120 | 2.00 (50.8)  | 2.00 (50.8)  | .30 (7.6)  | 2 x #8 (M4) or 2 x #6 (M3.5) |                         |           | Special                                                          |
| FTH-8A-RT                                              | Acrylic, RMS-15 |        | WIT/WITA -50 thru 120 | 2.00 (50.8)  | 2.00 (50.8)  | .30 (7.6)  | 2 x #8 (M4) or 2 x #6 (M3.5) |                         |           | Special                                                          |
| FTH-10A-RT                                             | Acrylic, RMS-15 |        |                       |              |              |            |                              |                         |           |                                                                  |

\*Available in UL94 V0 material by special order.

## FTH-40

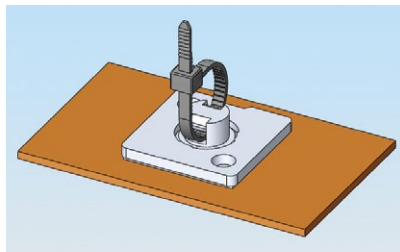
### Low Profile Flat Tie Holder



| Material: ABS, RMS-02 Color: White |                 |                      |
|------------------------------------|-----------------|----------------------|
| Standard Pack: 1000 per bag        |                 |                      |
| Part No.                           | Adhesive        | Used with Ties       |
| FTH-40                             | None            | WIT/WITA -18 and -40 |
| FTH-40A-RT                         | Acrylic, RMS-15 |                      |
| FTH-40A1-RT                        | Rubber, RMS-102 |                      |

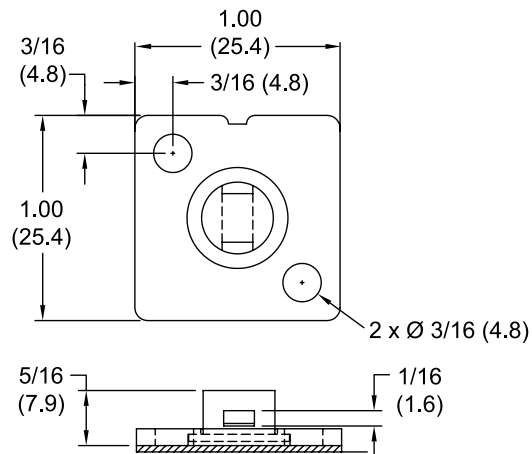
## FTH-4A-RT-M

### Flat Tie Holder with Swivel



#### Features

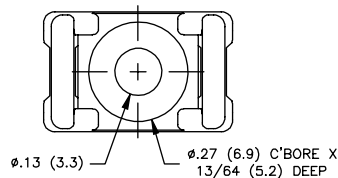
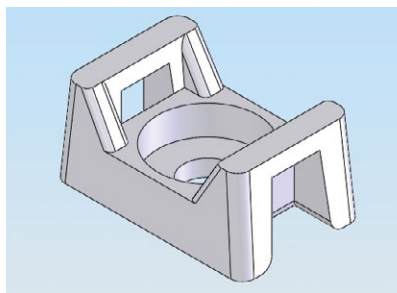
- Unique swivel head allows 360° rotation of the mounted bundle



| Standard Pack: 1000 per bag      |                           |         |                 |                      |                            |
|----------------------------------|---------------------------|---------|-----------------|----------------------|----------------------------|
| Part No.                         | Material                  | Color   | Adhesive        | Used with Ties       | Recommended Mounting Screw |
| FTH-4A-RT-M                      | UL94 V2 Nylon 6/6, RMS-01 | Natural | Acrylic, RMS-15 | WIT/WITA -18 and -40 | 2 x #8 or M4               |
| Available by special order only. |                           |         |                 |                      |                            |

## FTH-28RS-01

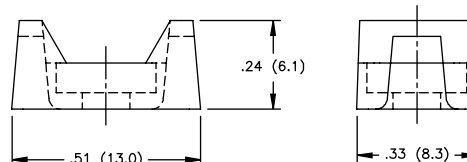
### Flat Tie Holder



| MOUNTING RIVETS FOR THE FTH-28RS |                     |                       |
|----------------------------------|---------------------|-----------------------|
| RIVET NO.                        | HOLE DIA.           | PANEL THICKNESS RANGE |
| SR-3035                          | .122-.126 (3.1-3.2) | UP TO .034 (0.9)      |
| SR-3045                          |                     | .034-.073 (0.9-1.9)   |
| SR-3055                          |                     | .073-.113 (1.9-2.9)   |
| SR-3065                          |                     | .113-.152 (2.9-3.9)   |
| SR-3075                          |                     | .152-.191 (3.9-4.9)   |
| SR-3080                          |                     | .172-.211 (4.4-5.4)   |
| SR-3090                          |                     | .211-.250 (5.4-6.4)   |
| SR-3100                          |                     | .250-.290 (6.4-7.4)   |
| See Page 47                      |                     |                       |

#### Features

- Holder mounts with a SR-30XX series rivet (see table) or a #4 or M3 screw
- Accepts WIT/WITA -18 ties

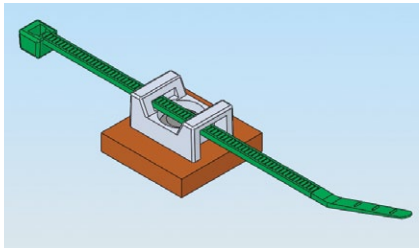


|                                                    |  |
|----------------------------------------------------|--|
| Material: Nylon 6/6, RMS-01*                       |  |
| Color: Natural                                     |  |
| Standard Pack: 1,000 per bag                       |  |
| *UL94 V0 material available by special order only. |  |
| To order, replace -01 with -19.                    |  |

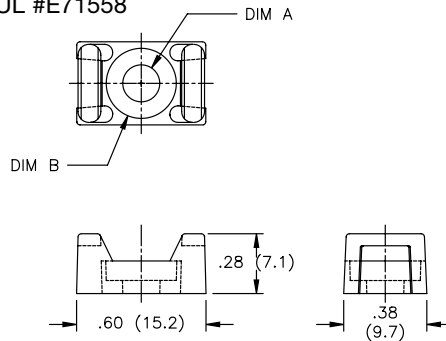


# CABLE TIES & ACCESSORIES

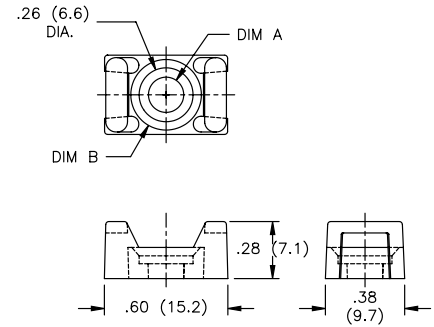
## FTH-13/14 Flat Tie Holder



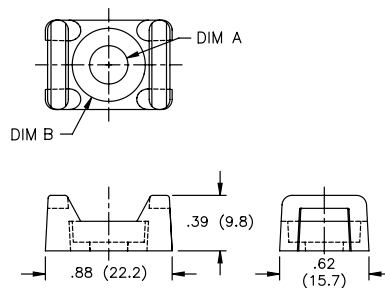
• UL #E71558



**Fig. 2**



**Fig. 3**



| MOUNTING RIVETS FOR FTH -13R-01 |            |                         |
|---------------------------------|------------|-------------------------|
| RIVET NO.                       | HOLE DIA.  | PANEL THICKNESS RANGE   |
| SR-4050                         | .161 (4.1) | .018 - .058 (0.5 - 1.5) |
| SR-4060                         |            | .058 - .097 (1.5 - 2.5) |
| SR-4070                         |            | .097 - .137 (2.5 - 3.5) |
| SR-4080                         |            | .137 - .176 (3.5 - 4.5) |
| SR-4100                         |            | .215 - .255 (5.5 - 6.5) |

See Page 47

| MOUNTING RIVETS FOR FTH -14R-01 |            |                         |
|---------------------------------|------------|-------------------------|
| RIVET NO.                       | HOLE DIA.  | PANEL THICKNESS RANGE   |
| SR-5055                         | .201 (5.1) | .020 - .048 (0.5 - 1.2) |
| SR-5065                         |            | .048 - .087 (1.2 - 2.2) |
| SR-5075                         |            | .087 - .127 (2.2 - 3.2) |
| SR-5085                         |            | .127 - .166 (3.2 - 4.2) |
| SR-5095                         |            | .166 - .205 (4.2 - 5.2) |
| SR-5105                         |            | .205 - .245 (5.2 - 6.2) |

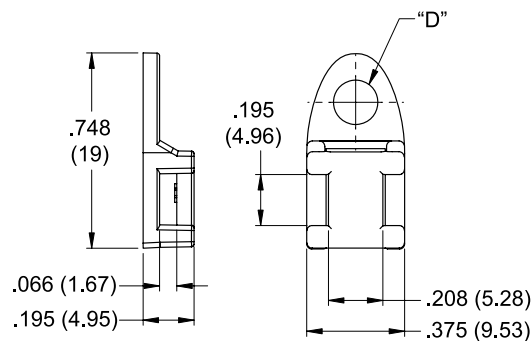
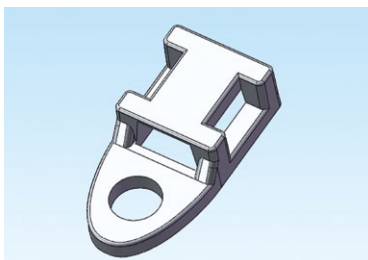
See Page 47

| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Natural | Fig. | Used with Ties        | Ø "A"     | Ø "B"            | Mounting Methods                  | Standard Pack Suffix |       | UVB Stabilized Nylon 6/6, RMS-46 Color: Black |
|-----------------------------------------------------|------|-----------------------|-----------|------------------|-----------------------------------|----------------------|-------|-----------------------------------------------|
|                                                     |      |                       |           |                  |                                   | -C                   | -M    |                                               |
| FTH-13R-01                                          | 1    | WIT/WITA -18 thru 50  | .17 (4.3) | .32 (8.1) C'bore | #8 or M4 screw or rivet (above)   | 100                  | 1,000 | Special                                       |
| FTH-13S-01                                          | 2    |                       |           | .32 (8.1) C'sink | #6 or M3 / #8 or M4               |                      |       |                                               |
| FTH-14R-01                                          | 3    | WIT/WITA -18 thru 120 | .21 (5.2) | .38 (9.5) C'bore | # 10 or M5 screw or rivet (above) |                      |       |                                               |
| FTH-14S-01                                          |      |                       |           | .26 (6.6)        | #1/4 or M6                        |                      |       |                                               |

\*Available in UL94 V0 by special order. To order, replace -01 with -19.

## FTH-34/35

### Flat Tie Holder, Screw Mount



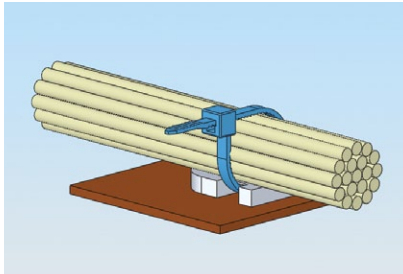
| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Natural |            |                    |                        |
|-----------------------------------------------------|------------|--------------------|------------------------|
| Standard Pack: 1000 per bag                         |            |                    |                        |
| Part No.                                            | "D"        | Accepts Screw Size | Used with ties         |
| FTH-34-01                                           | .170 (4.3) | #8 or M4           | WIT/WITA -18, -40, -50 |
| FTH-35-01                                           | .200 (5.1) | #10 or M5          |                        |

\*Available in UL94 V0 material by special order. To order, replace -01 with -19.

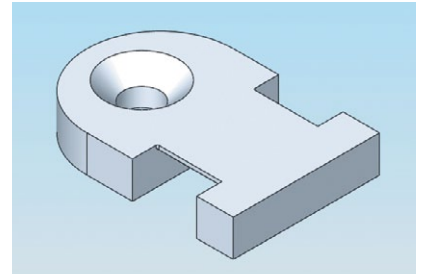
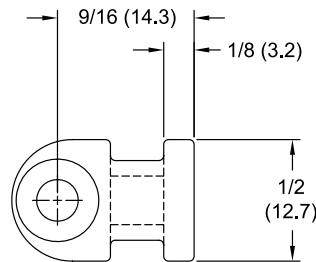
# CABLE TIES & ACCESSORIES

## FTH-1-01-M

### Flat Tie Holder, Screw Mount

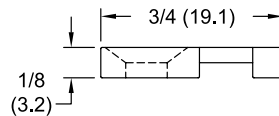


• UL #E71558



#### Features

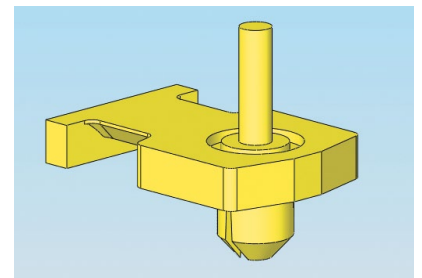
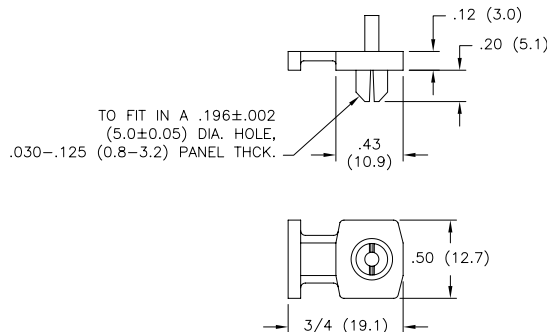
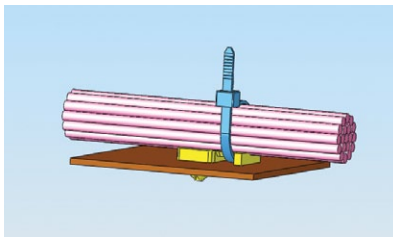
- Mounts with a #8 or M4
- Accepts WIT/WITA -18 thru -50 ties



|                                                                                       |
|---------------------------------------------------------------------------------------|
| Material: Nylon 6/6, <b>RMS-01*</b> • Color: Natural                                  |
| Standard Pack: 1,000 per bag                                                          |
| *UL94 V0 material available by special order only.<br>To order, replace -01 with -19. |

## FTH-22-01

### Flat Tie Holder, Self-Mount



#### Features

- Accepts WIT/WITA -18 thru -50 ties

Material: Nylon 6/6, **RMS-01\*** • Color: Yellow

Standard Pack: 1,000 per bag

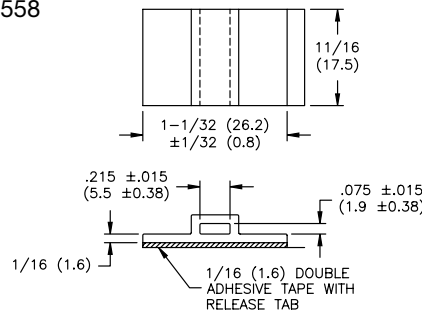
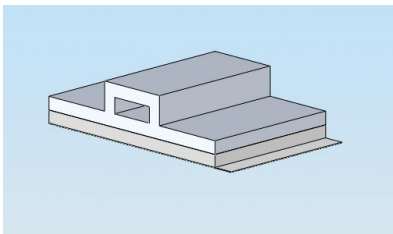
\*UL94 V0 material available by special order only.  
To order, replace -01 with -19.

## FTH-2A-RT

### Flat Tie Holder on Adhesive Base



• UL #E71558



Material: UL94 V1 PPE/PS, **RMS-05**;  
Adhesive back, **RMS-15**  
Color: White

Standard Pack: 100 (-C) or 1,000 (-M) per bag.  
Specify suffix when ordering

Acrylic Adhesive Tape, **RMS-15**

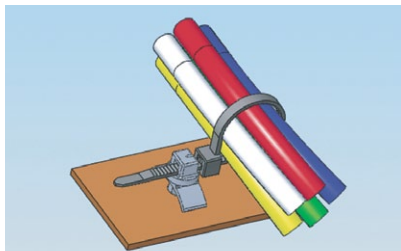
#### Features

- Accepts WIT/WITA -18 thru -50 ties

# CABLE TIES & ACCESSORIES

## FTH-30

### Flat Tie Holder with Cable Tie Head



#### Features

- Good for application in which a bundle is already wrapped. Simply insert the end of the cable tie for secure hold

Fig. 1

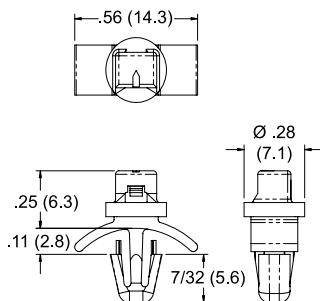
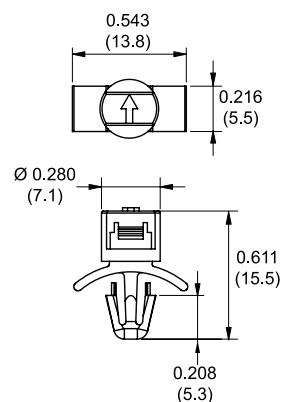


Fig. 2

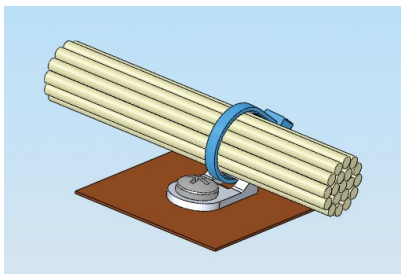


| Standard Pack: 1000 per bag                         |             |                          |                |      |
|-----------------------------------------------------|-------------|--------------------------|----------------|------|
| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Natural | Hole Ø      | Panel Thickness          | Used with Ties | Fig. |
| FTH-30-01                                           | .187 (4.76) | .031 - .078<br>(0.8 - 2) | WIT/WITA -18   | 1    |
| FTH-30-1-01                                         |             |                          | WIT/WITA -50   | 2    |

\*Available in UL94 V0 material by special order. To order, replace -01 with -19.

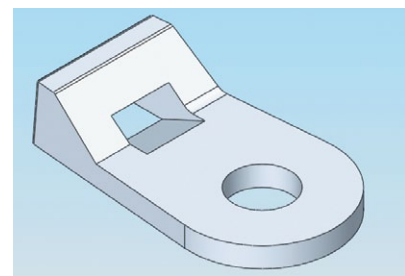
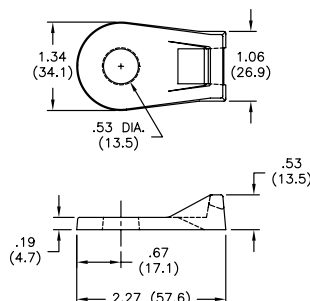
## FTH-17-8-01

### Flat Tie Holder, Heavy Duty Screw Mount



#### Features

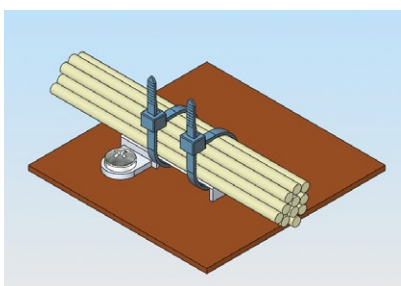
- Accepts all WIT/WITA ties



|                                                                                    |
|------------------------------------------------------------------------------------|
| Material: Nylon 6/6, RMS-01* Color: Natural                                        |
| Standard Pack: 100 per bag                                                         |
| *UL94 V0 material available by special order only. To order, replace -01 with -19. |

## FTH-11-8-01

### Flat Tie Holder, Screw Mount

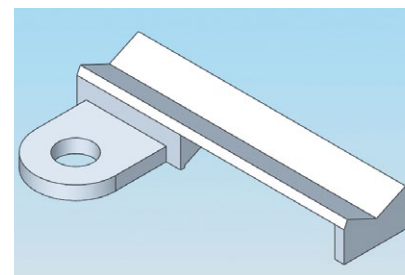
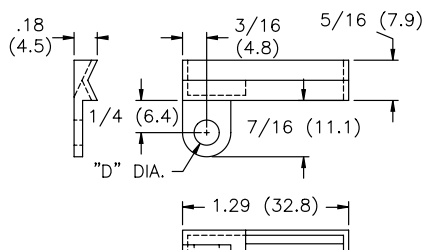


#### Features

- Accepts WIT/WITA -18 thru -50 ties



• UL #E71558



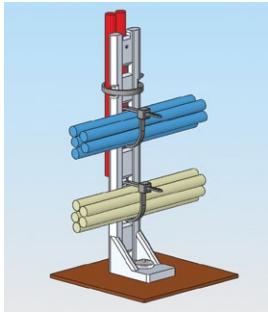
| Material: Nylon 6/6, RMS-01* • Color: Natural |            |                            |
|-----------------------------------------------|------------|----------------------------|
| Standard Pack: 100 per Bag                    |            |                            |
| Part No.                                      | "D" Dia.   | Recommended Mounting Screw |
| FTH-11-8-01                                   | .170 (4.3) | #8 or M4                   |

\*UL94 V0 material available by special order only. To order, replace -01 with -19.

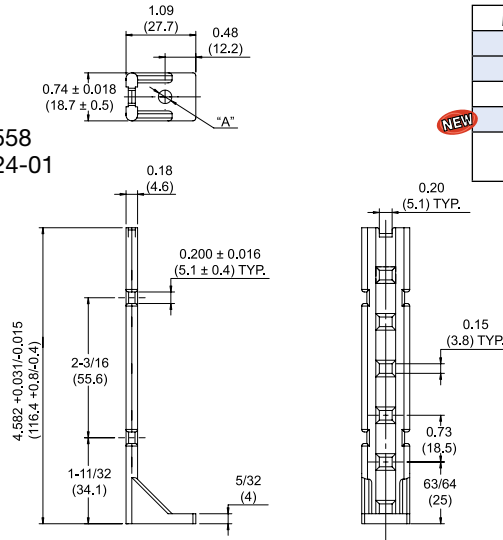
# CABLE TIES & ACCESSORIES

## FTH-24

### Flat Tie Holder, Screw Mount



- UL #E71558 for FTH-24-01 only



| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Natural |            |                |
|-----------------------------------------------------|------------|----------------|
| Standard Pack: 100 per bag                          |            |                |
| Part No.                                            | Ø "A"      | Mounting Screw |
| FTH-24-01                                           | 0.21 (5.3) | #10 (M5)       |
| FTH-24-1-01                                         | 0.25 (6.4) | 1/4 (M6)       |

NEW

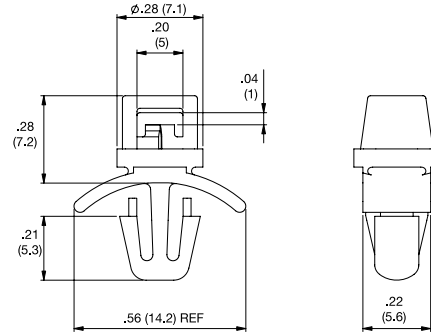
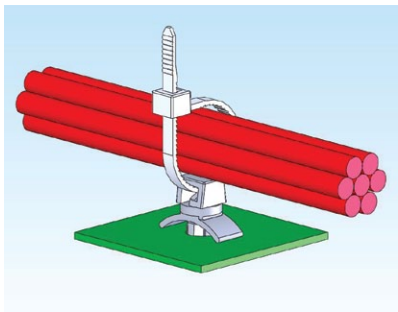
\*UL94 V0 material available by special order only.  
To order, replace -01 with -19.

#### Features

- Accepts WIT/WITA -18 thru -50 ties

## FTH-3A-01

### Pressure Hold Cable Tie Holder



- Allows pre-assembly of the cable tie into the holder and holds it in place

Material: Nylon 6/6, RMS-01\* Color: Natural

| Part No.  | Standard Pack: 1,000 per bag |                   |                      |
|-----------|------------------------------|-------------------|----------------------|
|           | Hole Dia ± .003 (.08)        | Panel Thickness   | Accepts Cable Ties   |
| FTH-3A-01 | .21 (5.3)                    | 0.03-0.08 (0.8-2) | WIT/WITA -18 thru 50 |

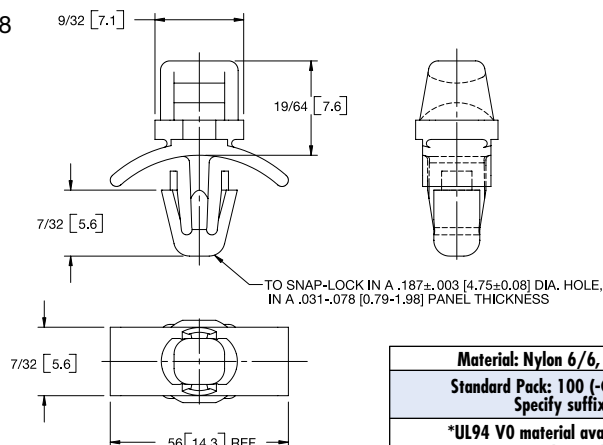
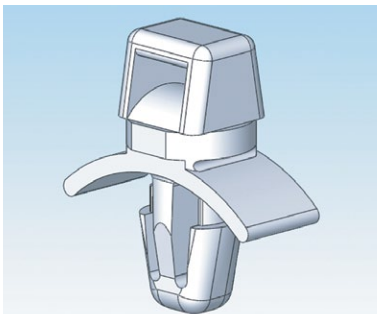
\*Parts are available in UL94 V0 Material, RMS-19 by special order. To order, replace -01 with -19.

## FTH-3-01

### Flat Tie Holder, Arrowhead



- UL #E71558



#### Features

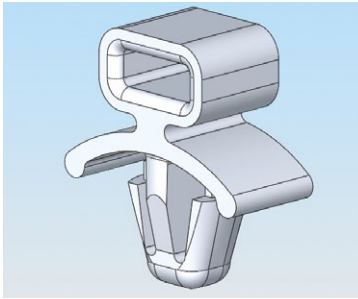
- Accepts WIT/WITA -18 thru -40 ties

| Material: Nylon 6/6, RMS-01* • Color: Natural                                      |  |
|------------------------------------------------------------------------------------|--|
| Standard Pack: 100 (-C) or 1,000 (-M) per bag. Specify suffix when ordering.       |  |
| *UL94 V0 material available by special order only. To order, replace -01 with -19. |  |

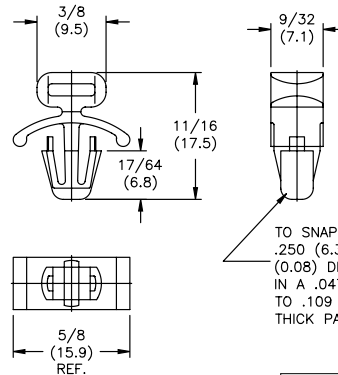
# CABLE TIES & ACCESSORIES

## FTH-6-01

### Flat Tie Holder, Arrowhead



• UL #E71558



TO SNAP-LOCK IN A  
.250 (6.35) ±.003  
(0.08) DIA. HOLE,  
IN A .047 (1.19)  
TO .109 (2.77)  
THICK PANEL/BOARD

#### Features

- Accepts WIT/WITA -18 thru -50 ties

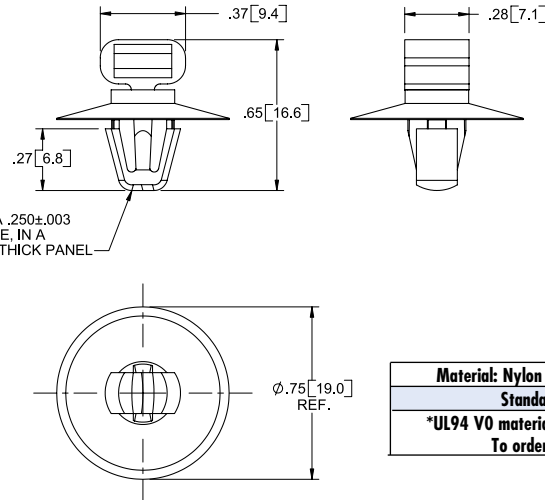
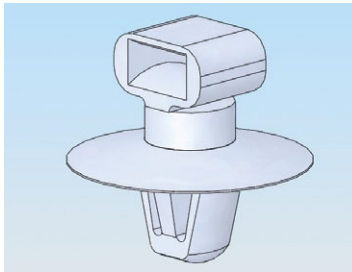
Material: Nylon 6/6, RMS-01\* • Color: Natural

Standard Pack: 100 (-C) or 1,000 (-M) per bag.  
Specify suffix when ordering.

\*UL94 V0 material available by special order only.  
To order, replace -01 with -19.

## FTH-29-01

### Flat Tie Holder, Cupped Base



#### Features

- Accepts WIT/WITA -18 thru -50 ties

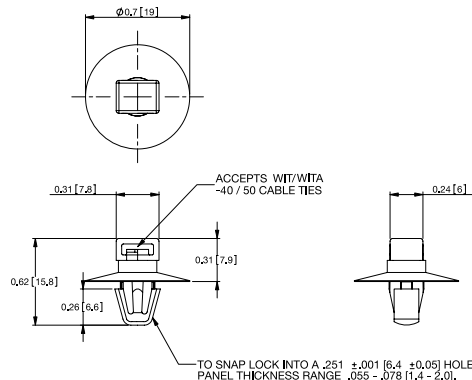
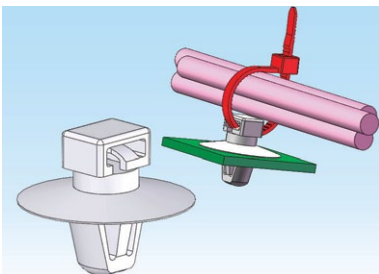
Material: Nylon 6/6, RMS-01\* • Color: Natural

Standard Pack: 1,000 per bag

\*UL94 V0 material available by special order only.  
To order, replace -01 with -19.

## FTH-33-01

### Flat Tie Holder, Pressure Hold



#### Features

- Allows pre-assembly of the cable tie into the holder and holds it in place

Mat'l: Nylon 6/6, RMS-01\* Color: Natural

Standard Pack: 1,000 per bag

Part No.

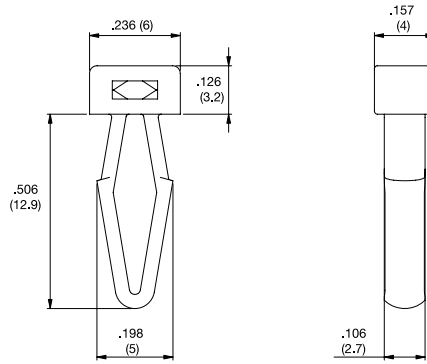
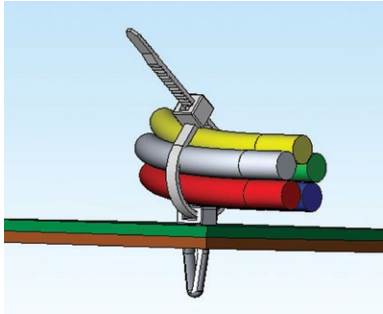
FTH-33-01

\*UL 94 V0 material, RMS-19 available by special order. To order, replace the -01 with -19

# CABLE TIES & ACCESSORIES

## FTH-39 Cable Tie Holder

**NEW**

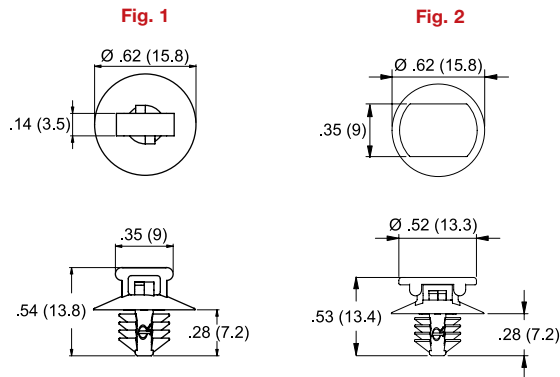
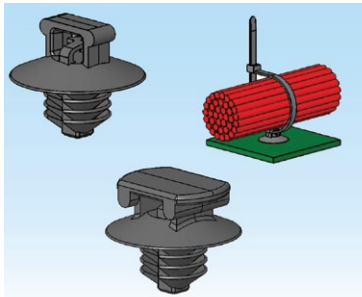


| Color: Natural | Standard Pack: 1000 per bag |                 |                   |                          |
|----------------|-----------------------------|-----------------|-------------------|--------------------------|
| Part Number    | Used with Ties              | Panel Hole Size | Panel Thickness   | Material                 |
| FTH-39-1-01    | WIT/WITA -18                | .126 (3.2)      | .039-.177 (1-4.5) | UL94 V2 Nylon 6/6 RMS-01 |
| FTH-39-1-19    |                             |                 |                   | UL94 V0 Nylon 6/6 RMS-19 |

## FTH-36/37

### Flat Tie Holder, Pressure Hold

**NEW**



### Features

- Allows pre-assembly of the cable tie into the holder and holds it in place
- Provides high pull out loads

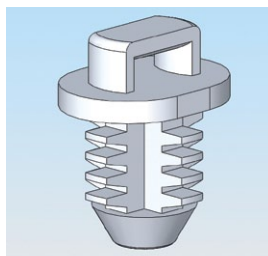
| Standard Pack: 1000 per bag                               |                       |                        |                        |      |
|-----------------------------------------------------------|-----------------------|------------------------|------------------------|------|
| Material: UL94 V2 Nylon 6/6,<br>RMS-01 Color: Black       | Accepts Ties          | Hole Ø                 | Panel Thickness        | Fig. |
| FTH-36-01BK                                               | WIT/WITA<br>-40 & -50 | .26 - .28<br>(6.5 - 7) | .03 - .12<br>(0.8 - 3) | 1    |
| FTH-37-01BK                                               |                       |                        |                        | 2    |
| Available assembled with cable tie by special order.      |                       |                        |                        |      |
| Available in other colors and materials by special order. |                       |                        |                        |      |

## FTH-15-01

### Flat Tie Holder, Blind Hole

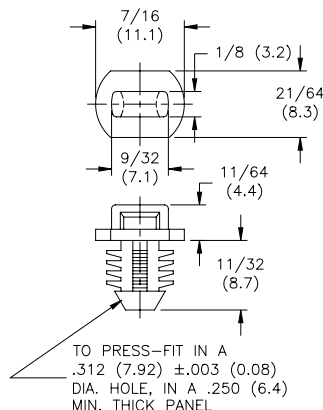


• UL #E71558



### Features

- Accepts WIT/WITA -18 thru -40 ties



|                                                                                    |
|------------------------------------------------------------------------------------|
| Material: Nylon 6/6, RMS-01* • Color: Natural                                      |
| Standard Pack: 100 (-C) or 1,000 (-M) per bag. Specify suffix when ordering.       |
| *UL94 V0 material available by special order only. To order, replace -01 with -19. |

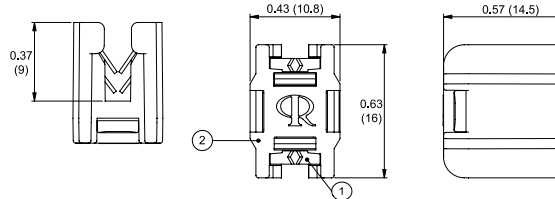


# CABLE TIES & ACCESSORIES

## FTH-31-01

Flat Tie Holder, Edge Mount

**NEW**



### Features

- Push the tie holder onto the edge of a panel to accept a cable tie and to mount a cable bundle

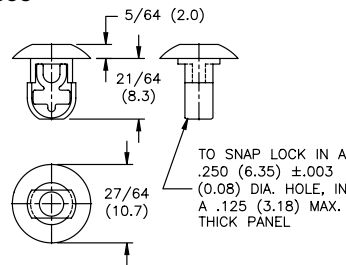
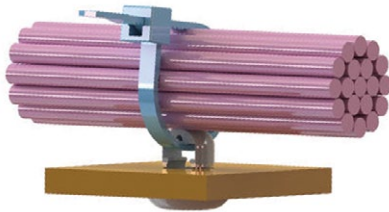
| FTH-31-01                                                                                                                                                                    |                 |                                             |                         |                       |                                                                                |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------|-------------------------|-----------------------|--------------------------------------------------------------------------------|---------------------|
| Item                                                                                                                                                                         | Description     | Material                                    | Color                   | Panel Thickness       | Retention Force                                                                | Cable Ties Accepted |
| 1                                                                                                                                                                            | Metal Clip      | Stainless Steel, RMS-365 Grade 304 (1.4301) | Type '2B' Bright Finish | 0.03 - 0.12 (0.8 - 3) | To Steel Panel:<br>Minimum 25N 0.03 (0.8) Panel;<br>Minimum 45N 0.12 (3) Panel | WIT/WITA -40, -50   |
| 2                                                                                                                                                                            | Plastic Housing | UL94 V2 Nylon 6/6, RMS-01                   | Black                   |                       | To Plastic Panel:<br>Minimum 150N 0.09 - 0.12 (2.4 - 3)                        |                     |
| Can Be Assembled With Cable Ties By Special Order                                                                                                                            |                 |                                             |                         |                       |                                                                                |                     |
| Housing (2) also available in UL94 V0 Nylon 6/6, RMS-19 and UL94 V2 Heat Stabilized Nylon 6/6, RMS-47 by special order. To order, replace -01 with -19 or -47, respectively. |                 |                                             |                         |                       |                                                                                |                     |

## FTH-9-01

Flat Tie Holder



- UL #E71558



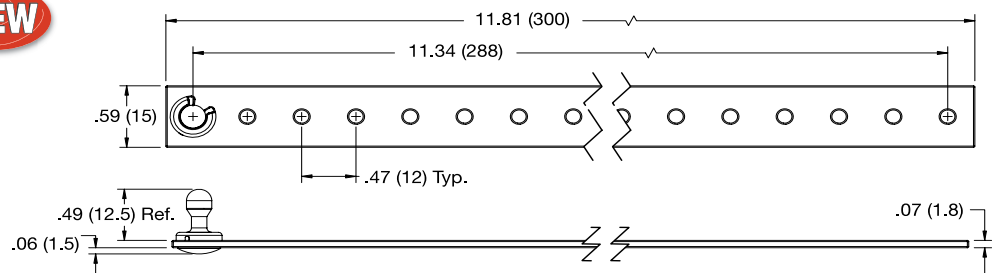
### Features

- Accepts WIT/WITA -18 thru -50 ties

|                                                                                     |
|-------------------------------------------------------------------------------------|
| <b>Material:</b> Nylon 6/6, RMS-01* • <b>Color:</b> Natural                         |
| <b>Standard Pack:</b> 100 (-C) or 1,000 (-M) per bag. Specify suffix when ordering. |
| *UL94 V0 material available by special order only. To order, replace -01 with -19.  |

## ES-1 Rubber Strap

**NEW**

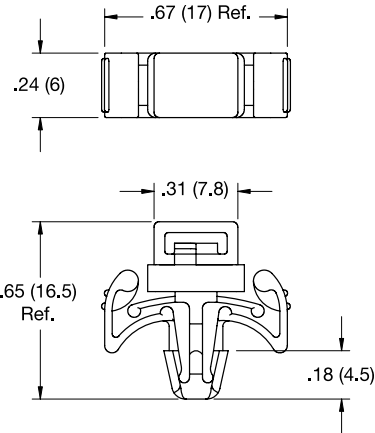


|                                                                                                     |                         |                          |
|-----------------------------------------------------------------------------------------------------|-------------------------|--------------------------|
| <b>Material:</b> Strap; Silicone Rubber, 50 Shore A, RMS-417; Latch Pin; UL94 HB Nylon 6/6, RMS-148 |                         |                          |
| <b>Color:</b> Black                                                                                 |                         |                          |
| <b>Standard Pack:</b> 100 per Bag                                                                   |                         |                          |
| <b>Part No.</b>                                                                                     | <b>Maximum Bundle Ø</b> | <b>Maximum Perimeter</b> |
| ES-1                                                                                                | 4.33 (110)              | 13.6 (345)               |
| For additional Latch Pins, order part no. CS-113-6                                                  |                         |                          |

# CABLE TIES & ACCESSORIES

## FTH-41-01

Cable Tie Holder, Removable



| Mat'l: Nylon 6/6, RMS-01* Color: Natural |                              |                         |                     |
|------------------------------------------|------------------------------|-------------------------|---------------------|
| Part No.                                 | Standard Pack: 1,000 per bag |                         |                     |
|                                          | Hole Ø                       | Panel Thickness         | Accepts Cable Ties  |
| FTH-41-01                                | .189 (4.8)                   | .020 - .090 (0.5 - 2.3) | WIT/WITA-18 thru 50 |

\*Parts are available in UL94 V0 Material, RMS-19 by special order. To order, replace -01 with -19.

## Notes

H



# CABLE MANAGEMENT

## N/NB/E Cable Clamp



Fig. 1

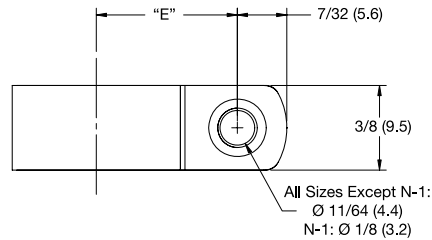


Fig. 2

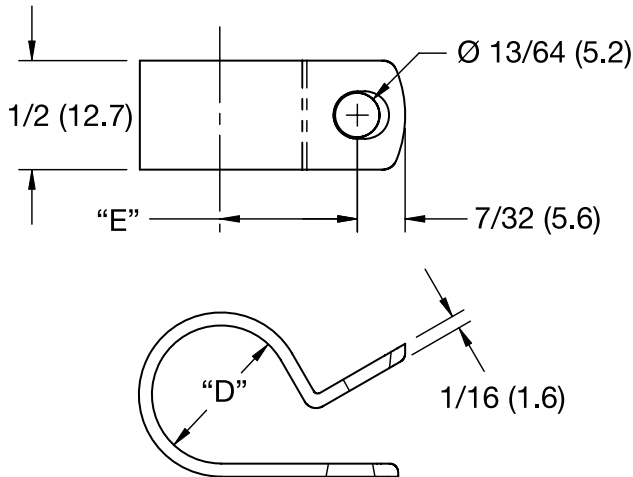
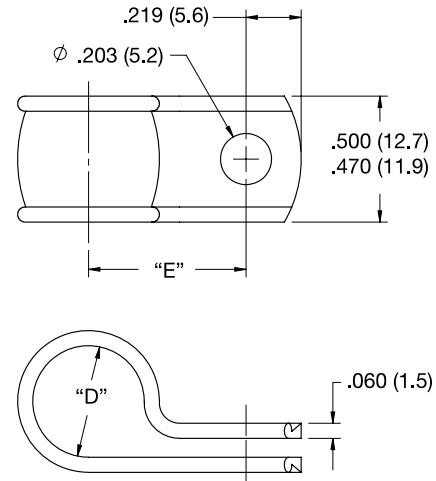


Fig. 3



| N (Fig. 1)                                                                                                                                                                                                                                 |              | NB (Fig. 2)                      |              |                                  | E (Fig. 3)                        |              | “E” Ref.     | “D” Holding Dia. | Standard Pack |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------|--------------|----------------------------------|-----------------------------------|--------------|--------------|------------------|---------------|
| Mat’l: UL94 V2 Nylon 6/6, RMS-01*                                                                                                                                                                                                          |              | Mat’l: UL94 V2 Nylon 6/6, RMS-01 |              | Mat’l: UL94 V0 Nylon 6/6, RMS-19 | Mat’l: UL94 HB Propionate, RMS-12 |              |              |                  |               |
| Part No.                                                                                                                                                                                                                                   |              | Part No.                         |              |                                  | Part No.                          |              |              |                  |               |
| Color: Natural                                                                                                                                                                                                                             | Color: Black | Color: Natural                   | Color: Black | Color: Natural                   | Color: Clear                      | Color: Amber |              |                  |               |
| N-1                                                                                                                                                                                                                                        | N-1-BK       | -                                | -            | -                                | -                                 | -            | .27 (6.9)    | 1/16 (1.6)       | 1,000         |
| N-2                                                                                                                                                                                                                                        | N-2-BK       | N-2B                             | N-2B-BK      | N-2B-19                          | E2-CL                             | E2-AM        | 21/64 (8.3)  | 1/8 (3.2)        |               |
| N-3                                                                                                                                                                                                                                        | N-3-BK       | N-3B                             | N-3B-BK      | N-3B-19                          | E3-CL                             | E3-AM        | 25/64 (9.9)  | 3/16 (4.8)       |               |
| N-4                                                                                                                                                                                                                                        | N-4-BK       | N-4B                             | N-4B-BK      | N-4B-19                          | E4-CL                             | E4-AM        | 27/64 (10.7) | 1/4 (6.4)        |               |
| N-5                                                                                                                                                                                                                                        | N-5-BK       | N-5B                             | N-5B-BK      | N-5B-19                          | E5-CL                             | E5-AM        | 29/64 (11.5) | 5/16 (7.9)       |               |
| N-6                                                                                                                                                                                                                                        | N-6-BK       | N-6B                             | N-6B-BK      | N-6B-19                          | E6-CL                             | E6-AM        | 31/64 (12.3) | 3/8 (9.5)        |               |
| N-7                                                                                                                                                                                                                                        | N-7-BK       | N-7B                             | N-7B-BK      | N-7B-19                          | E7-CL                             | E7-AM        | 17/32 (13.5) | 7/16 (11.1)      |               |
| N-8                                                                                                                                                                                                                                        | N-8-BK       | N-8B                             | N-8B-BK      | N-8B-19                          | E8-CL                             | E8-AM        | 9/16 (14.3)  | 1/2 (12.7)       |               |
| -                                                                                                                                                                                                                                          | -            | N-9B                             | N-9B-BK      | N-9B-19                          | E9-CL                             | E9-AM        | 19/32 (15)   | 9/16 (14.3)      |               |
| -                                                                                                                                                                                                                                          | -            | N-10B                            | N-10B-BK     | N-10B-19                         | E10-CL                            | E10-AM       | 5/8 (15.9)   | 5/8 (15.9)       |               |
| -                                                                                                                                                                                                                                          | -            | N-11B                            | N-11B-BK     | N-11B-19                         | -                                 | -            | 21/32 (16.7) | 11/16 (17.5)     | 500           |
| -                                                                                                                                                                                                                                          | -            | N-12B                            | N-12B-BK     | N-12B-19                         | -                                 | -            | 49/64 (19.4) | 3/4 (19.1)       |               |
| -                                                                                                                                                                                                                                          | -            | N-14B                            | N-14B-BK     | N-14B-19                         | -                                 | -            | 13/16 (20.6) | 7/8 (22.2)       |               |
| -                                                                                                                                                                                                                                          | -            | N-16B                            | N-16B-BK     | N-16B-19                         | -                                 | -            | 29/32 (23)   | 1 (25.4)         |               |
| -                                                                                                                                                                                                                                          | -            | N-18B                            | N-18B-BK     | N-18B-19                         | -                                 | -            | 31/32 (24.6) | 1-1/8 (28.6)     |               |
| *Available in UL94 V0 material by special order. To order, add -19 to the end of the natural color part number.<br>Available in UV Stabilized black nylon by special order. To order add -UVB to the end of the natural color part number. |              |                                  |              |                                  |                                   |              |              |                  |               |

## NB-3

### Adjustable Nylon Cable Clamp



Fig. 1

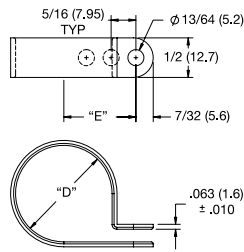
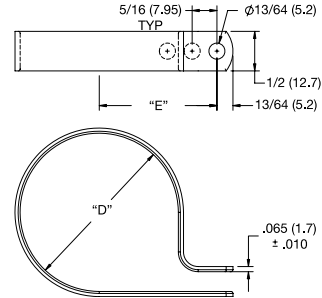


Fig. 2

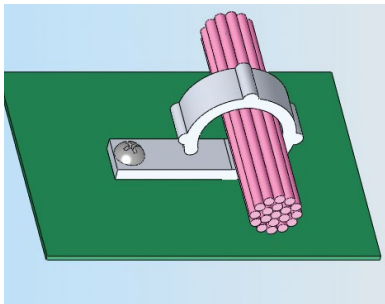


| Part No.                                               |                                                     | Standard Pack: 500 per bag |          |                      |              |                |
|--------------------------------------------------------|-----------------------------------------------------|----------------------------|----------|----------------------|--------------|----------------|
| Material: UL94 V2 Nylon 6/6, RMS-01*<br>Color: Natural | Material: UL94 V2 Nylon 6/6, RMS-01<br>Color: Black | "E" Ref.                   | Fig. No. | "D" Holding Diameter |              |                |
|                                                        |                                                     |                            |          | Inside Hole          | Center Hole  | Outside Hole   |
| N-20B                                                  | N-20B-BK                                            | 29/32 (23)                 | 1        | 1 (25.4)             | 1-1/8 (28.6) | 1.2 (30.2)     |
| N-24B                                                  | N-24B-BK                                            | 1-1/32 (26.2)              |          | 1-1/4 (31.8)         | 1-3/8 (34.9) | 1-15/32 (37.3) |
| N-32B                                                  | N-32B-BK                                            | 1-29/64 (36.9)             | 2        | 1-3/4 (44.5)         | 1-7/8 (47.6) | 2 (50.8)       |

\*UL94 V0 Nylon, RMS-19 available by special order. To order, add -19 to the end of the part number.

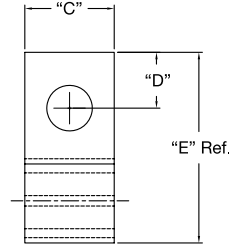
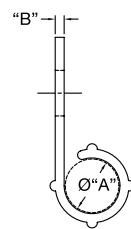
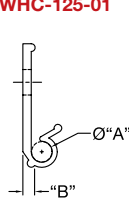
## WHC

### Wire Harness Clamp



WHC-125-01

WHC-250-01 TO 1500-01



UL #E71558

| Material: UL94 V2 Nylon 6/6, RMS-01*, Color: Natural |                    |                 |           |            |           |                |               |
|------------------------------------------------------|--------------------|-----------------|-----------|------------|-----------|----------------|---------------|
| Part No.                                             | "A" Holding Ø Ref. | Mounting Hole Ø | "B"       | "C"        | "D"       | "E" Ref.       | Standard Pack |
| WHC-125-01                                           | 1/8 (3.2)          | .204 (5.2)      | .156 (4)  | .33 (8.4)  | .23 (5.8) | .75 (19.1)     | 1000          |
| WHC-250-01                                           | 1/4 (6.4)          |                 | .04 (1)   | .40 (10.2) | .25 (6.4) | .83 (21.1)     |               |
| WHC-375-01                                           | 3/8 (9.5)          |                 | .05 (1.3) |            | .19 (4.8) | .83 (21.1)     |               |
| WHC-500-01                                           | 1/2 (12.7)         |                 | .07 (1.8) |            | .25 (6.4) | 1-5/32 (29.4)  |               |
| WHC-625-01                                           | 5/8 (15.9)         |                 | .08 (2)   | .50 (12.7) | .19 (4.8) | 1-1/8 (28.6)   |               |
| WHC-750-01                                           | 3/4 (19.1)         |                 | .09 (2.2) |            |           | 1-9/32 (32.5)  |               |
| WHC-1000-01                                          | 1 (25.4)           |                 | .09 (2.2) |            |           | 1-17/32 (38.9) |               |
| WHC-1500-01                                          | 1-1/2 (38.1)       |                 | .10 (2.5) |            |           | 2-1/8 (53.9)   | 500           |

\*Parts are available in UL94 V0 material by special order. To order, replace -01 with -19

## EXWHC2

### Wire Harness Clamp

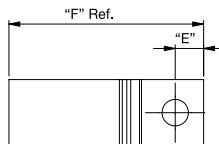
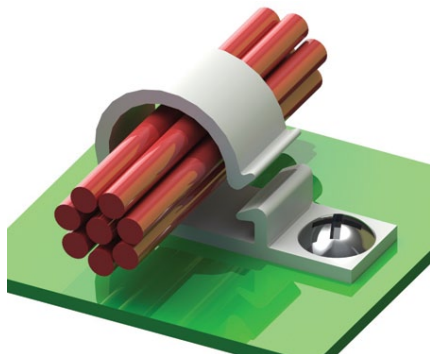
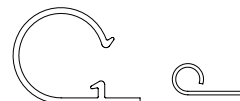
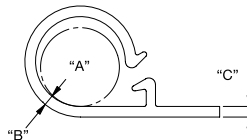


Fig. 1

Fig. 2



| Mat'l: Nylon 6/6, RMS-01* Color: Natural |               |            |            |            |            |              |                 |
|------------------------------------------|---------------|------------|------------|------------|------------|--------------|-----------------|
| Standard Pack: 1,000 per bag             |               |            |            |            |            |              |                 |
| Part No.                                 | "A" Holding Ø | "B"        | "C"        | Width      | "E" Ref.   | "F" Ref.     | Mounting Hole Ø |
| EXWHC2-250-01                            | .250 (6.35)   | .038 (.97) | .039 (1)   | .394 (10)  | .236 (6)   | .827 (21)    | .156 (4)        |
| EXWHC2-500-01                            | .500 (12.7)   | .063 (1.6) | .075 (1.9) |            | .185 (4.7) | 1.181 (30)   |                 |
| EXWHC2-750-01                            | .708 (18)     |            |            | .50 (12.7) |            | 1.377 (6.35) |                 |

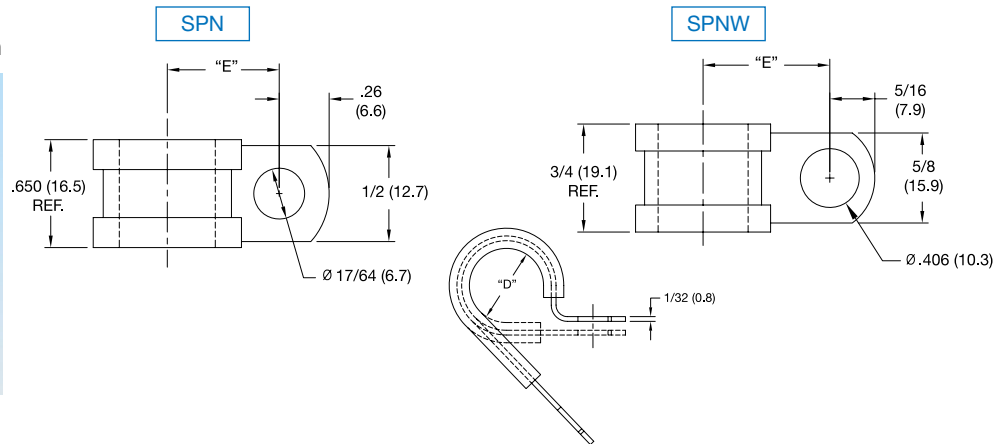
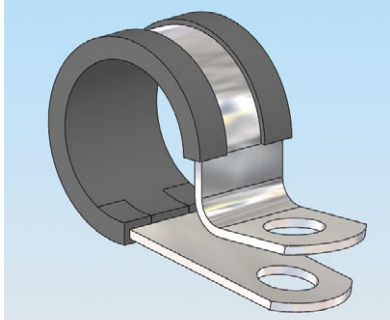
\*Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19.



# CABLE MANAGEMENT

## SPN/SPNW

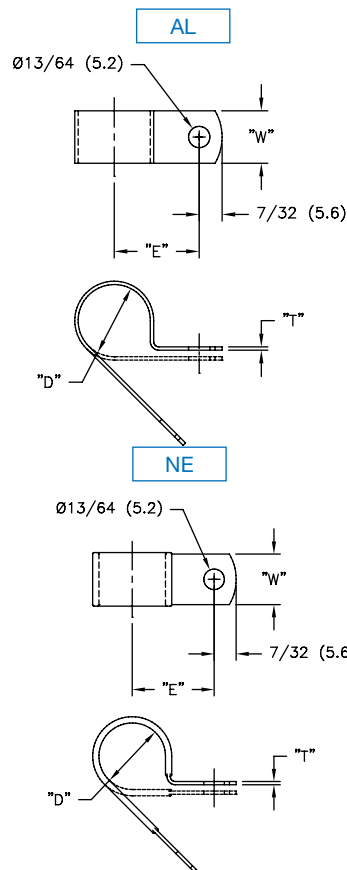
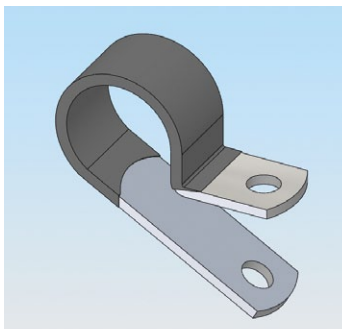
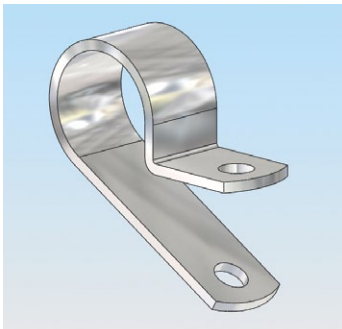
### Steel Clamp with Rubber Cushion



| Material: Cold Rolled Steel, RMS-198; Zinc Electroplated, RMS-339; Cushion: SPN: TPE, RMS-387; SPNW: Neoprene, RMS-67 Color: Steel with Black Cushion |             |                  |               |          |             |                  |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|---------------|----------|-------------|------------------|---------------|
| Part No.                                                                                                                                              | "E" Ref.    | "D" Holding Dia. | Standard Pack | Part No. | "E" Ref.    | "D" Holding Dia. | Standard Pack |
| SPN-3                                                                                                                                                 | .50 (12.7)  | 3/16 (4.8)       | 500           | -        | -           | -                | -             |
| SPN-4                                                                                                                                                 | .53 (13.5)  | 1/4 (6.4)        |               | SPNW-4   | .63 (16)    | 1/4 (6.4)        | 100           |
| SPN-5                                                                                                                                                 | .56 (14.2)  | 5/16 (7.9)       |               | SPNW-5   | .66 (16.8)  | 5/16 (7.9)       |               |
| SPN-6                                                                                                                                                 | .59 (15)    | 3/8 (9.5)        |               | SPNW-6   | .69 (17.5)  | 3/8 (9.5)        |               |
| SPN-7                                                                                                                                                 | .62 (15.7)  | 7/16 (11.1)      |               | SPNW-7   | .72 (18.3)  | 7/16 (11.1)      |               |
| SPN-8                                                                                                                                                 | .65 (16.5)  | 1/2 (12.7)       |               | SPNW-8   | .75 (19.1)  | 1/2 (12.7)       |               |
| SPN-9                                                                                                                                                 | .75 (19.1)  | 9/16 (14.3)      |               | -        | -           | -                | -             |
| SPN-10                                                                                                                                                | .78 (19.8)  | 5/8 (15.9)       |               | SPNW-10  | .88 (22.4)  | 5/8 (15.9)       | 100           |
| SPN-11                                                                                                                                                | .81 (20.6)  | 11/16 (17.5)     |               | SPNW-11  | .91 (23.1)  | 11/16 (17.5)     |               |
| SPN-12                                                                                                                                                | .84 (21.3)  | 3/4 (19.1)       |               | -        | -           | -                | -             |
| SPN-14                                                                                                                                                | .90 (22.9)  | 7/8 (22.2)       | 100           | -        | -           | -                | -             |
| SPN-16                                                                                                                                                | .96 (24.4)  | 1 (25.4)         |               | SPNW-14  | 1.00 (25.4) | 7/8 (22.2)       | 100           |
| SPN-18                                                                                                                                                | 1.05 (26.7) | 1-1/8 (28.6)     |               | SPNW-16  | 1.06 (26.9) | 1 (25.4)         |               |
| SPN-20                                                                                                                                                | 1.11 (28.2) | 1-1/4 (31.8)     |               | -        | -           | -                | -             |
|                                                                                                                                                       |             |                  |               | SPNW-20  | 1.21 (30.7) | 1-1/4 (31.8)     | 100           |

## AL/NE

### Aluminum Clamp/Aluminum Clamp with Vinyl Coating



| Material: Aluminum Alloy 5052 H-32, RMS-199; NE: TPV Coating, RMS-118 |      |                  |             |               |               |               |
|-----------------------------------------------------------------------|------|------------------|-------------|---------------|---------------|---------------|
| Color: Aluminum, NE: Black Coating                                    |      |                  |             |               |               |               |
| Part No.                                                              |      | "D" Holding Dia. | "E" Ref.    | "T"           | "W"           | Standard Pack |
| AL2A                                                                  | -    | 1/8 (3.2)        | .46 (11.7)  | 1/32<br>(0.8) | 3/8<br>(9.5)  | 1,000         |
| AL3A                                                                  | NE3  | 3/16 (4.8)       | .50 (12.7)  |               |               |               |
| AL4A                                                                  | NE4  | 1/4 (6.4)        | .53 (13.5)  |               |               |               |
| AL5A                                                                  | NE5  | 5/16 (7.9)       | .56 (14.2)  |               |               |               |
| AL6A                                                                  | NE6  | 3/8 (9.5)        | .59 (15)    |               |               |               |
| AL7A                                                                  | NE7  | 7/16 (11.1)      | .62 (15.7)  |               |               |               |
| AL8A                                                                  | NE8  | 1/2 (12.7)       | .65 (16.5)  |               |               |               |
| AL9A                                                                  | NE9  | 9/16 (14.3)      | .75 (19.1)  |               |               |               |
| AL10A                                                                 | NE10 | 5/8 (15.9)       | .78 (19.8)  |               |               |               |
| AL11                                                                  | NE11 | 11/16 (17.5)     | .81 (20.6)  | 1/16<br>(1.6) | 1/2<br>(12.7) | 500           |
| AL12                                                                  | NE12 | 3/4 (19.1)       | .84 (21.3)  |               |               |               |
| AL14                                                                  | NE14 | 7/8 (22.2)       | .90 (22.9)  |               |               |               |
| AL16                                                                  | NE16 | 1 (25.4)         | .96 (24.4)  |               |               |               |
| AL18                                                                  | NE18 | 1-1/8 (28.6)     | 1.05 (26.7) |               |               |               |
| AL20                                                                  | NE20 | 1-1/4 (31.8)     | 1.11 (28.2) |               |               |               |

## V Component Clip

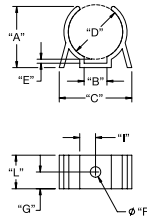
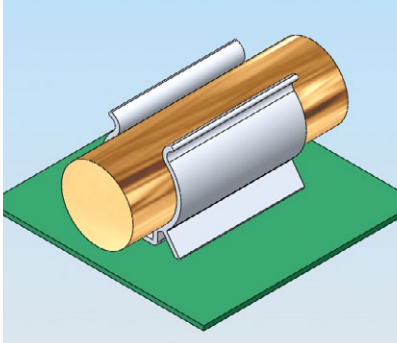


Fig. 1

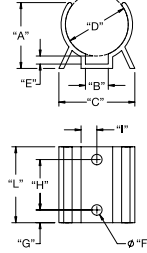


Fig. 2

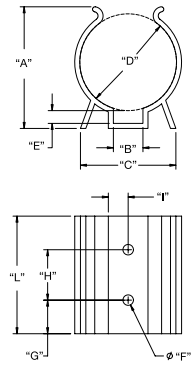


Fig. 3

| Material: UL94 V0 PVC, RMS-04; Color: Black |             |             |             |                  |                       |            |            |                          |            |            |                |               |      |            |            |            |
|---------------------------------------------|-------------|-------------|-------------|------------------|-----------------------|------------|------------|--------------------------|------------|------------|----------------|---------------|------|------------|------------|------------|
| Part No.                                    | "A" Ref.    | "B" Ref.    | "C" Ref.    | "D" Holding Dia. | "E" Ref.              | "F" Ref.   | "G"        | "H" Ref.                 | "I" Ref.   | "L"        | Wall Thk. Ref. | Standard Pack | Fig. |            |            |            |
| V-1000                                      | .30 (7.5)   | .19 (4.8)   | .50 (12.7)  | .25 (6.4)        | .04 (1)               | .094 (2.4) | .250 (6.4) | Single Hole<br>In Center | .135 (3.4) | .50 (12.7) | .040 (1)       | 1,000         | 1    |            |            |            |
| V-1001                                      | .36 (9.1)   |             |             | .31 (7.9)        | .06 (1.5)             |            |            |                          | .190 (4.8) |            | .140 (3.6)     |               |      | .045 (1.1) |            |            |
| V-1002                                      | .41 (10.3)  |             |             | .38 (9.5)        |                       |            |            |                          |            |            |                |               |      |            | .160 (4.1) | .050 (1.3) |
| V-1003                                      | .45 (11.5)  |             |             | .44 (11.1)       |                       |            |            |                          |            |            |                |               |      |            |            |            |
| V-1004                                      | .50 (12.7)  | .50 (12.7)  | .065 (1.7)  |                  |                       |            |            |                          |            |            |                |               |      |            |            |            |
| V-1005                                      | .61 (15.5)  | .56 (14.3)  |             | .235 (6)         |                       |            |            |                          |            |            |                |               |      |            |            |            |
| V-1006                                      | .63 (15.9)  | .63 (15.9)  |             |                  | .245 (6.2)            |            |            |                          |            |            |                |               |      |            |            |            |
| V-1007                                      | .34 (8.6)   | .84 (21)    |             |                  |                       | .69 (17.6) | .235 (6)   |                          |            |            |                |               |      |            |            |            |
| V-1008                                      | .36 (9.1)   | .89 (22.6)  | .75 (19.1)  |                  |                       | .280 (7.1) |            |                          |            |            |                |               |      |            |            |            |
| V-1009                                      | .34 (8.6)   | 1.08 (27.4) | .88 (22.2)  | .295 (7.5)       |                       |            |            |                          |            |            |                |               |      |            |            |            |
| V-1010                                      | .98 (25)    | 1.13 (28.6) | 1.00 (25.4) |                  | .343 (8.7)            |            |            |                          |            |            |                |               |      |            |            |            |
| V-1011                                      | .41 (10.4)  | 1.25 (31.8) | 1.38 (34.9) |                  |                       |            | .075 (1.9) |                          |            |            |                |               |      |            |            |            |
| V-1024                                      | 1.81 (46)   | 1.42 (36.1) | 1.50 (38.1) |                  |                       | .093 (2.4) |            |                          |            |            |                |               |      |            |            |            |
| V-1028                                      | .44 (11.2)  | 1.50 (38.1) | 1.75 (44.5) | 50               |                       |            |            |                          |            |            |                |               |      |            |            |            |
| V-1030                                      | 2.44 (61.9) | .52 (13.2)  | 2.61 (66.3) |                  | 2.25-2.75 (57.1-69.9) |            |            | .22 (5.6)                | .375 (9.5) |            |                |               |      |            |            |            |
| Custom Lengths available by special order   |             |             |             |                  |                       |            |            |                          |            |            |                |               |      |            |            |            |

Custom Lengths available by special order

## VM Component Clip

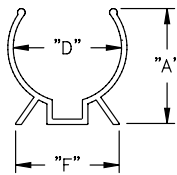
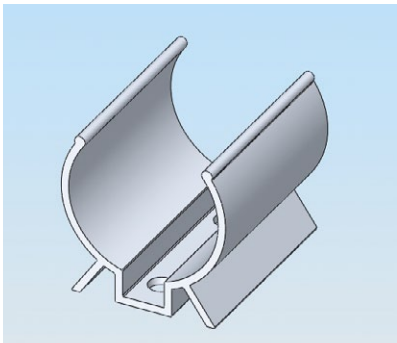


Fig. 1

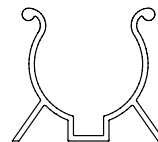


Fig. 2

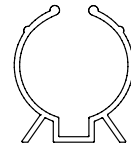
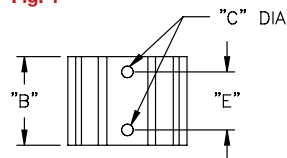
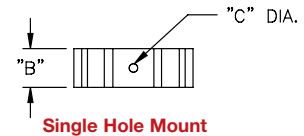


Fig. 3



Two Hole Mount



Single Hole Mount

| Material: UL94 V2 Nylon 6/6, RMS-01; Color: Black |               |             |             |           |                       |             |      |
|---------------------------------------------------|---------------|-------------|-------------|-----------|-----------------------|-------------|------|
| Standard Pack: 100 per bag                        |               |             |             |           |                       |             |      |
| Part No.                                          | "D" Holding Ø | "A" Ref.    | "B" Ref.    | "C" Ref.  | "E" Ref.              | "F" Ref.    | Fig. |
| VM-1002                                           | 3/8 (9.5)     | .44 (11.2)  | .50 (12.7)  | .11 (2.8) | Single Hole In Center | .54 (13.7)  | 1    |
| VM-1004                                           | 1/2 (12.7)    | .52 (13.2)  |             |           |                       | .75 (19.1)  |      |
| VM-1007                                           | 11/16 (17.5)  | .78 (19.8)  |             |           |                       | .82 (20.8)  |      |
| VM-1008                                           | 3/4 (19.1)    | .97 (24.6)  |             |           |                       | .98 (24.9)  |      |
| VM-1010                                           | 1 (25.4)      | 1.03 (26.1) | 1.12 (28.4) | .15 (3.8) | .750 (19.1)           | 1.25 (31.8) | 3    |
| VM-1011                                           | 1-3/8 (34.9)  | 1.51 (38.4) |             |           |                       | 1.37 (34.8) |      |
| VM-1024                                           | 1-1/2 (38.1)  | 1.67 (42.4) |             |           |                       | 1.50 (38.1) |      |
| VM-1030                                           | 2-1/4 (57.2)  | 2.50 (63.5) |             |           |                       | 3.00 (76.2) |      |

# CABLE MANAGEMENT

## HURCS/DHURCS

### Screw Mount U Clamp

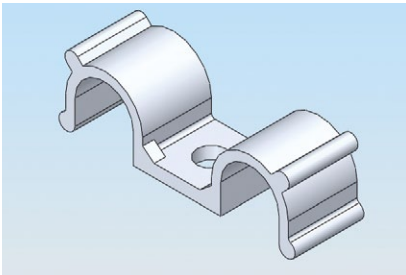
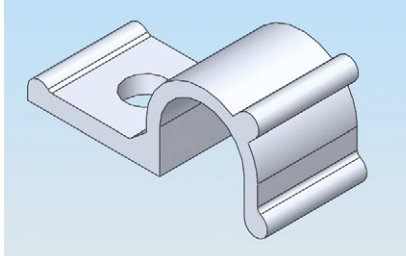
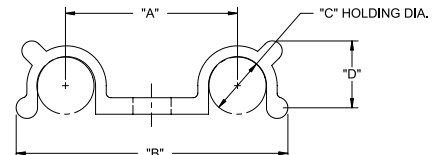
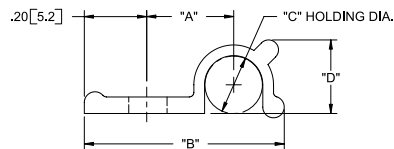
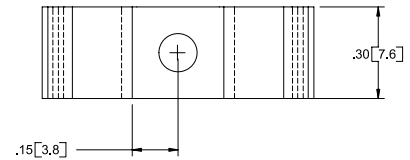


Fig. 1



Fig. 2



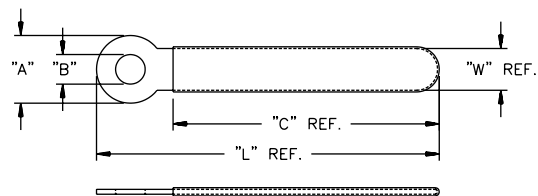
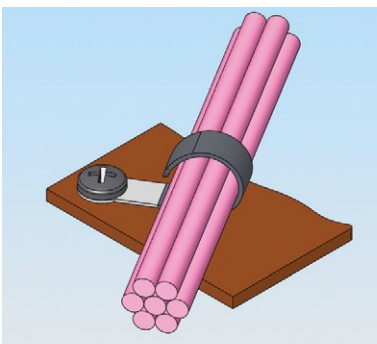
#### Mounting Notes

.125 ± .002 (3.2 ± .05)  
MOUNTING HOLE DIA.  
FOR #4 OR M3 SCREW OR  
SR-30XX SERIES RIVET

| Mat'l: UL94 V2 Nylon 6/6, <b>RMS-01*</b> Color: Natural    Standard Pack: 1,000 per bag                |               |            |             |           |     |
|--------------------------------------------------------------------------------------------------------|---------------|------------|-------------|-----------|-----|
| Part No.                                                                                               | "C" Holding Ø | "A" Ref.   | "B" Ref.    | "D" Ref.  | Fig |
| HURCS-2-01                                                                                             | 1/8 (3.2)     | .25 (6.2)  | .59 (15)    | .17 (4.3) | 1   |
| HURCS-3-01                                                                                             | 3/16 (4.8)    | .28 (7.1)  | .65 (15.6)  | .24 (6.1) |     |
| HURCS-4-01                                                                                             | 1/4 (6.4)     | .32 (8.1)  | .72 (18.3)  | .30 (7.6) |     |
| DHURCS-2-01                                                                                            | 1/8 (3.2)     | .49 (12.4) | .75 (19)    | .17 (4.3) | 2   |
| DHURCS-3-01                                                                                            | 3/16 (4.8)    | .56 (14.2) | .89 (22.6)  | .24 (6.1) |     |
| DHURCS-4-01                                                                                            | 1/4 (6.4)     | .64 (16.2) | 1.02 (25.9) | .30 (7.6) |     |
| <b>*Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19.</b> |               |            |             |           |     |
| See page 47 for SR series rivets                                                                       |               |            |             |           |     |

## VCC

### Adjustable Steel Clamp with Vinyl Coating



| Material: Body: Soft Steel, RMS-243, .020 (0.5) thick; Coating: **Soft Black PVC, RMS-118, .032 (0.8) thick; Color: Black |            |            |          |            |           |                     |               |
|---------------------------------------------------------------------------------------------------------------------------|------------|------------|----------|------------|-----------|---------------------|---------------|
| Part No.                                                                                                                  | "L" Ref.   | "C" Ref.   | "A"      | "B"        | "W" Ref.  | Approx. Bundle Dia. | Standard Pack |
| VCC-83028                                                                                                                 | 1.10 (28)  | .71 (18)   | .315 (8) | .118 (3)   | .12 (3)   | .22 (5.7)           | 1,000         |
| VCC-83535                                                                                                                 | 1.34 (35)  | .98 (25)   |          | .138 (3.5) | .20 (5)   | .31 (7.9)           |               |
| VCC-83540                                                                                                                 | 1.57 (40)  | 1.18 (30)  |          |            | .12 (3)   | .37 (9.5)           |               |
| VCC-63048                                                                                                                 | 2.89 (48)  | 1.57 (40)  |          | .118 (3)   | .08 (2)   | .50 (12.7)          |               |
| VCC-84554                                                                                                                 | 2.13 (54)  | 1.65 (42)  | .315 (8) | .177 (4.5) | .19 (4.8) | .52 (13.3)          |               |
| VCC-63254                                                                                                                 |            | 1.81 (46)  | .236 (6) | .126 (3.2) | .14 (3.6) | .57 (14.6)          |               |
| VCC-83664                                                                                                                 | 2.52 (64)  | 2.09 (53)  | .315 (8) | .161 (4.1) | .20 (5)   | .66 (16.9)          |               |
| VCC-84576                                                                                                                 | 2.99 (76)  | 2.56 (65)  |          | .177 (4.5) | .18 (4.5) | .81 (20.7)          |               |
| VCC-84584                                                                                                                 | 3.31 (84)  | 2.83 (72)  |          |            |           | .90 (22.9)          |               |
| VCC-845126                                                                                                                | 4.96 (126) | 4.41 (112) |          |            |           | .24 (6)             | 1.40 (35.6)   |
| **UL94 V0 PVC Coating, RMS-55 available. To order, add -V0 to the end of the part number.                                 |            |            |          |            |           |                     |               |
| * Minimum drip allowed at the tip of the part                                                                             |            |            |          |            |           |                     |               |

## SRCC Strain Relief Clamp

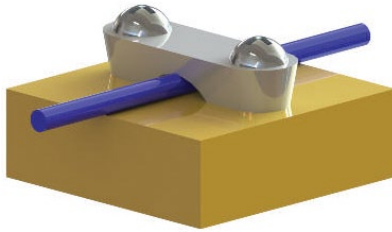


Fig. 1

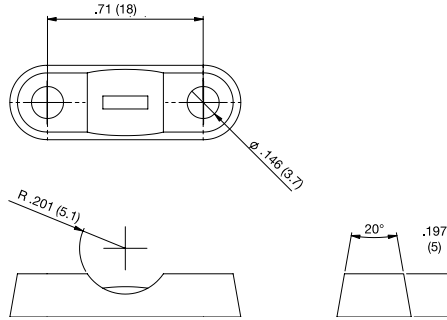
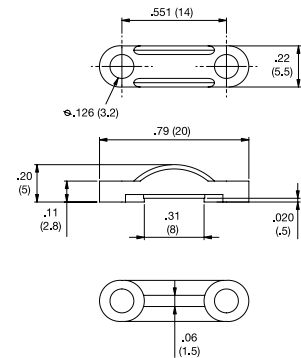


Fig. 2



| Standard Pack: 1,000 per bag |                              |       |                 |                 |     |
|------------------------------|------------------------------|-------|-----------------|-----------------|-----|
| Part No                      | Material: UL94 V2, Nylon 6/6 | Color | Max. Cable Dia. | Mounting Screws | Fig |
| SRCC-1                       | RMS-48                       | Gray  | .177 (4.5)      | M3 or #6        | 1   |
| NEW SRCC-2                   | RMS-01                       | Black | .31 (8)         | M3 or #3        | 2   |

## HMCC Hinged Locking Clamp

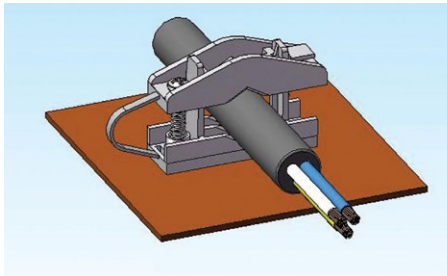


Fig. 1

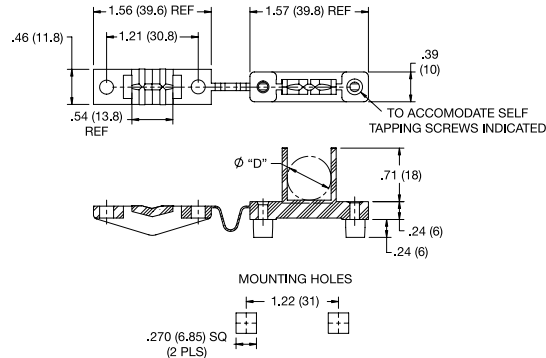


Fig. 2

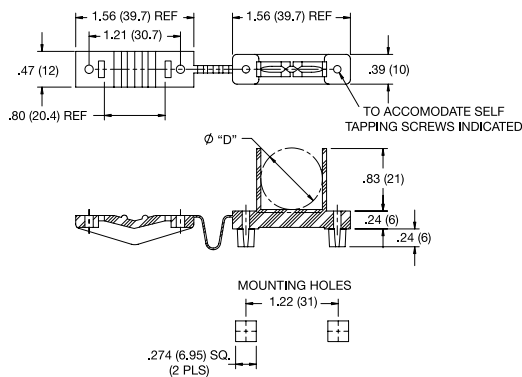
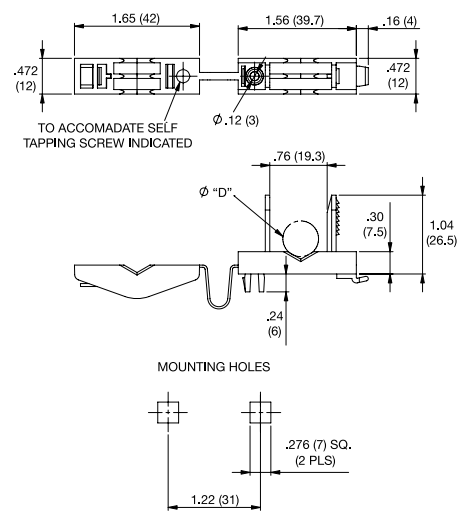


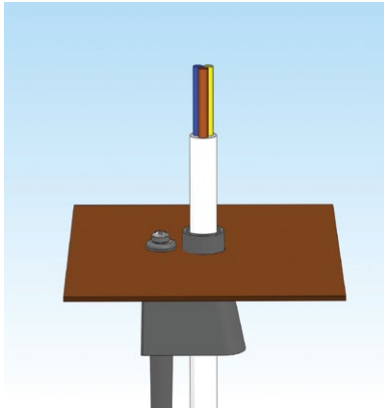
Fig. 3



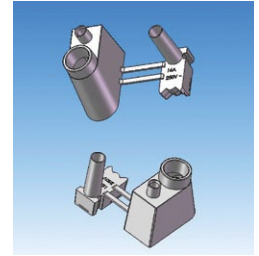
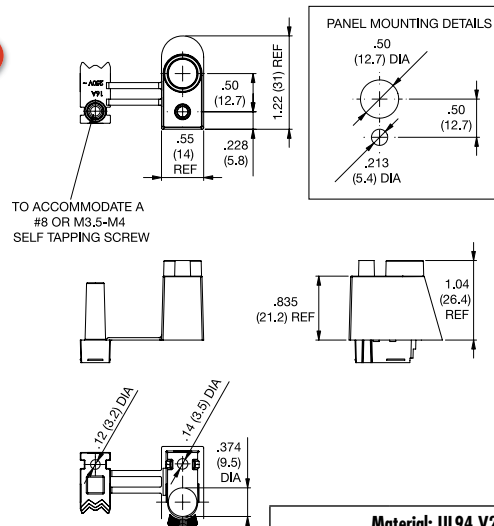
| Mat'l: UL94 V2 Nylon 6/6, RMS-01*                                                               |         |                      |                              | Standard Pack: 1,000 per bag |     |
|-------------------------------------------------------------------------------------------------|---------|----------------------|------------------------------|------------------------------|-----|
| Part No                                                                                         | Color   | "D" Max. Bundle Dia. | Self Tapping Mounting Screws | Mounting Panel Thickness     | Fig |
| HMCC-1-01                                                                                       | Natural | .59 (15.1)           | (2x) #8                      | .024-.059 (0.6-1.5)          | 1   |
| HMCC-3-01                                                                                       |         | .82 (20.9)           | (2x) M3.5, M4, #8            |                              | 2   |
| NEW HMCC-4-01BK                                                                                 | Black   | .47 (12)             | (1x) M3.5, M4, #8            | .032-.047 (0.8-1.2)          | 3   |
| *Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19. |         |                      |                              |                              |     |
| Available by special order only. 5,000 piece minimum                                            |         |                      |                              |                              |     |

# CABLE MANAGEMENT

## MLC-1 Mains Lead Clamp



**NEW**



### Features

- Clamp mounts into the chassis to secure the main power cable in appliances
- Clamp provides strain relief to the cable and protects the cable from the metal cutout

**Material: UL94 V2 Nylon 6/6, RMS-01, Color: Black**

**Standard Pack: 500 per bag**

| Part Number | Cable Diameter Accepted | Panel Thickness     |
|-------------|-------------------------|---------------------|
| MLC-1       | .27 - .34 (6.8 - 8.5)   | .02 - .08 (0.5 - 2) |

## KLH/TLH/TLHE Screw Mount Twist Locks



• UL #E71558



• UL #E71558

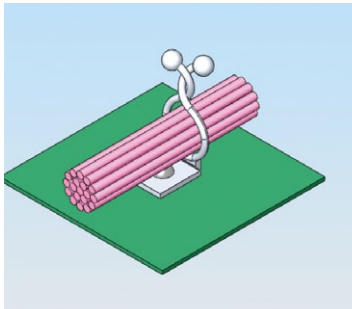


Fig. 1

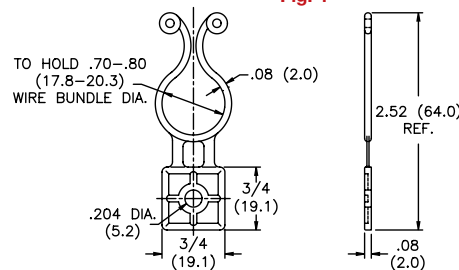


Fig. 2

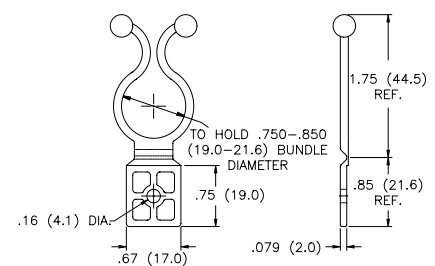


Fig. 3

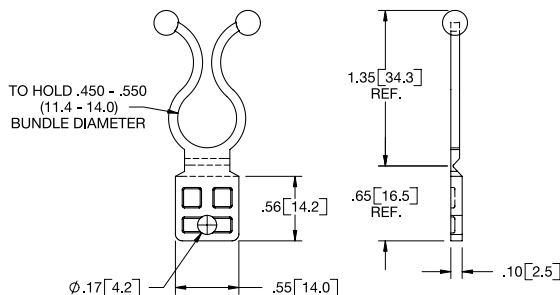
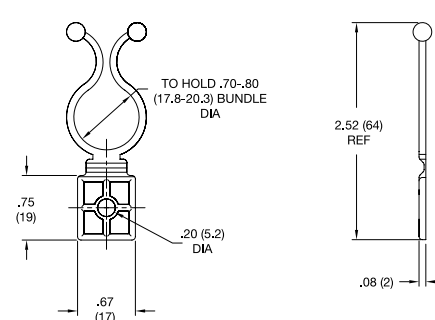


Fig. 4

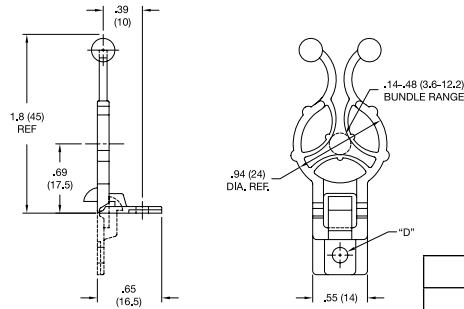
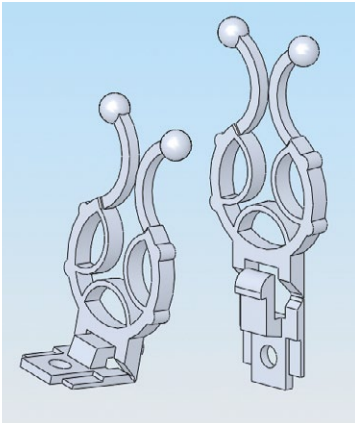


| <b>Mat'l: UL94 V2 Nylon 6/6, RMS-01*</b> |                        | <b>Color: Natural</b> |
|------------------------------------------|------------------------|-----------------------|
| <b>Standard Pack: 1,000 per bag</b>      |                        |                       |
| Part No.                                 | Recommended Screw Size | Fig                   |
| KLH-750-01                               | #8 or M4               | 1                     |
| TLH-800-01                               | #6 or M3               | 2                     |
| TLH-500-01                               | #8 or M4               | 3                     |
| TLHE-1-750-01                            |                        | 4                     |

\*Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19.

## WTLH

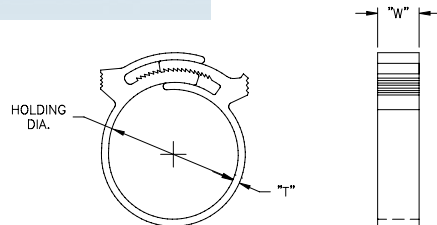
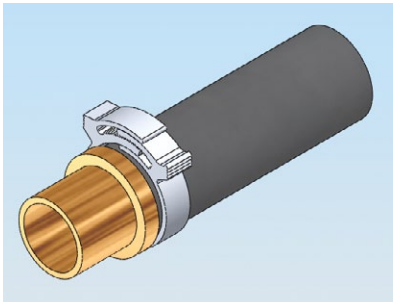
### Webbed Twist Lock, Hinged



| Material: UL94 V2 Nylon 6/6, RMS-01*                                            |               | Color: Natural         |
|---------------------------------------------------------------------------------|---------------|------------------------|
| Standard Pack: 500 per bag                                                      |               |                        |
| Part No.                                                                        | Hole Dia. "D" | Recommended Screw Size |
| WTLH90-300-4-01                                                                 | .13 (3.3)     | #4 or M3               |
| WTLH90-300-6-01                                                                 | .15 (3.8)     | #6 or M3.5             |
| WTLH90-300-M4-01                                                                | .17 (4.3)     | #8 or M4               |
| *Available in UL94 V0 material by special order. To order, replace -01 with -19 |               |                        |

## SHC

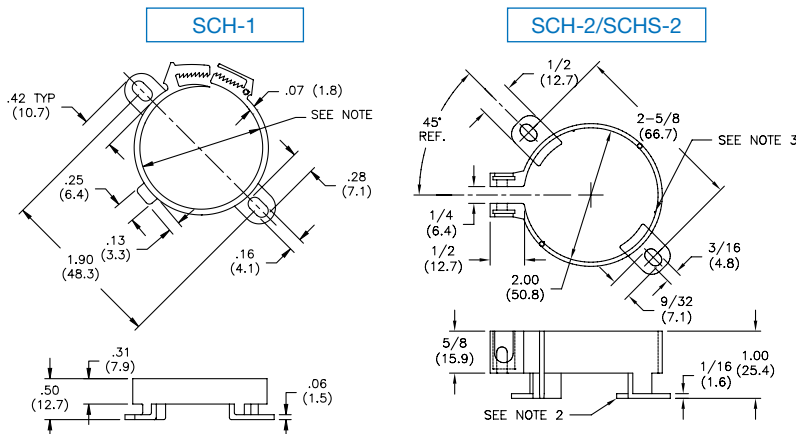
### Snap-It Hose Clamp



| Material: UL94 HB Nylon 6/6, RMS-73**                                                                                          |                                 |           |            |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|------------|
| Color: White, Black by special order. To order, add BK to end of part no.                                                      |                                 |           |            |
| Part No.                                                                                                                       | Holding Ø Range                 | "T"       | "W"        |
| SHC-16GF*                                                                                                                      | 1/4 - 5/16 (6.4 - 7.9)          | .04 (1)   | .13 (3.3)  |
| SHC-23                                                                                                                         | 23/64 - 25/64 (9.1 - 9.9)       | .07 (1.8) | .22 (5.6)  |
| SHC-26                                                                                                                         | 25/64 - 15/32 (9.1 - 11.9)      |           |            |
| SHC-30                                                                                                                         | 15/32 - 17/32 (11.9 - 13.5)     |           |            |
| SHC-32                                                                                                                         | 17/32 - 19/32 (13.5 - 15.1)     |           |            |
| SHC-38                                                                                                                         | 19/32 - 21/32 (15.1 - 16.7)     |           |            |
| SHC-44                                                                                                                         | 11/16 - 13/16 (17.5 - 20.6)     |           |            |
| SHC-50                                                                                                                         | 3/4 - 7/8 (19.1 - 22.2)         |           |            |
| SHC-56                                                                                                                         | 7/8 - 1 (22.2 - 25.4)           |           |            |
| SHC-62                                                                                                                         | 61/64 - 1-3/32 (24.2 - 27.8)    |           |            |
| SHC-68                                                                                                                         | 1-1/32 - 1-3/16 (26.2 - 30.2)   |           |            |
| SHC-80                                                                                                                         | 1-13/32 - 1-5/8 (31.8 - 36.5)   |           |            |
| SHC-92                                                                                                                         | 1-19/32 - 1-13/16 (35.7 - 41.3) |           |            |
| SHC-134                                                                                                                        | 2-1/8 - 2-3/8 (54 - 60.3)       |           | .40 (10.2) |
| ** Glass filled Nylon, RMS-35 available by special order on all sizes except SHC-16.<br>To order add GF to the end of part no. |                                 |           |            |
| *SHC-16GF available only in the Glass filled Nylon, RMS-35 as standard                                                         |                                 |           |            |

## SCH/SCHS

### Standing Capacitor Holder



### SCH-1 Notes:

Adjustable holding dia.  
Min. - 1-21/64 (33.7) with all teeth engaged  
Max. - 1-7/16 (36.5) with 1 tooth engaged

|                                            |
|--------------------------------------------|
| Material: Nylon 6/6, RMS-01 Color: Natural |
| Standard Pack: 100 per Bag                 |

### SCH-2/SCHS-2 Notes:

Optional:

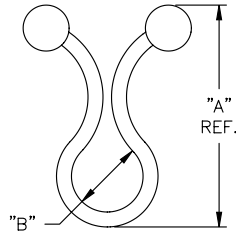
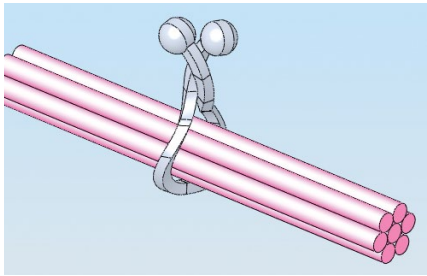
- Clamping hardware; Screw (S6B) Stainless Steel, RMS-357 Zinc Plating, RMS-358; Quick Nut (QN-6) Spring Steel C1050, RMS-327 Coating: Black Phosphate, RMS-356
- Spacer to elevate capacitor 3/32 (2.4) from chassis
- Anti-rotation rib (3 locations)

| Material: Glass Filled Nylon, RMS-18 Color: Black |                                 |
|---------------------------------------------------|---------------------------------|
| Part No.                                          | Standard Pack: 100 per bag      |
| Description                                       |                                 |
| SCHS-2                                            | w/spacer, w/o hardware (Note 1) |
| SCH-2                                             | w/o spacer, w/o hardware        |
| SCHS-2-H                                          | w/spacer, w/clamping hardware   |
| SCH-2-H                                           | w/o spacer, w/clamping hardware |
| Available by special order; 1,000 piece minimum.  |                                 |



# CABLE MANAGEMENT

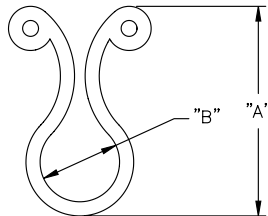
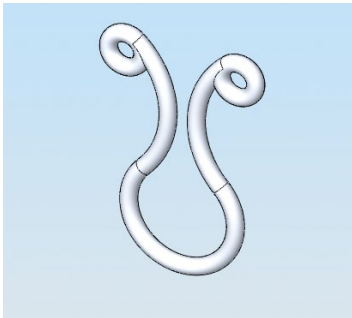
## TL Twist Lock



• UL #E71558

| Material: UL94 V2 Nylon 6/6, RMS-01*                                                       |                             | Color: Natural            |
|--------------------------------------------------------------------------------------------|-----------------------------|---------------------------|
| Standard Pack: 1,000 per bag                                                               |                             |                           |
| Part No.                                                                                   | "A" Ref. Approximate Height | "B" Ref. Wire Bundle Dia. |
| TL-250                                                                                     | .90 (22.9)                  | .20-.30 (5.1-7.6)         |
| TL-350                                                                                     | 1.03 (26.2)                 | .30-.40 (7.6-10.2)        |
| TL-450                                                                                     | 1.20 (30.5)                 | .40-.50 (10.2-12.7)       |
| TL-600                                                                                     | 1.33 (33.7)                 | .55-.65 (14-16.5)         |
| TL-750                                                                                     | 1.55 (39.4)                 | .70-.80 (17.8-20.3)       |
| TL-950                                                                                     | 1.70 (43.4)                 | Max. 1.00 (25.4)          |
| TL-1125                                                                                    | 2.19 (55.6)                 | Max. 1-3/16 (30.2)        |
| TL-1375                                                                                    | 2.68 (68.1)                 | Max. 1-7/16 (36.5)        |
| TL-1500                                                                                    | 2.93 (74.4)                 | Max. 1-9/16 (39.7)        |
| TL-1750                                                                                    | 3.45 (87.6)                 | Max. 1-13/16 (46)         |
| Other colors available by special order.                                                   |                             |                           |
| *Available in UL94 V0 Nylon by special order. To order, add -19 to the end of the part no. |                             |                           |

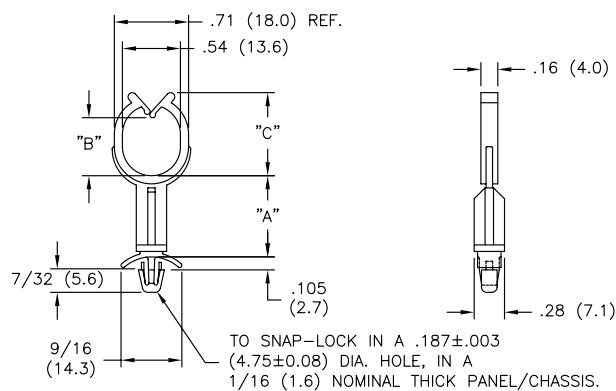
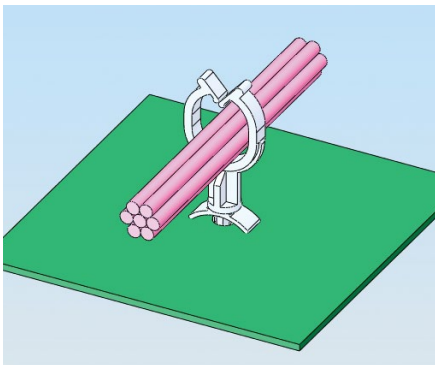
## KL Kurly Lock



• UL #E71558

| Material: UL94 V2 Nylon 6/6, RMS-01*                                                       |                        | Color: Natural       |
|--------------------------------------------------------------------------------------------|------------------------|----------------------|
| Standard Pack: 1,000 per bag                                                               |                        |                      |
| Part No.                                                                                   | "A" Approximate Height | "B" Wire Bundle Dia. |
| KL-125                                                                                     | .48 (12.2)             | .125-.150 (3.2-3.8)  |
| KL-200                                                                                     | .82 (20.7)             | .16-.24 (4.1-6.1)    |
| KL-250                                                                                     | .91 (23)               | .20-.30 (5.1-7.6)    |
| KL-350                                                                                     | 1.03 (26.2)            | .30-.40 (7.6-10.2)   |
| KL-450                                                                                     | 1.20 (30.5)            | .40-.50 (10.2-12.7)  |
| KL-600                                                                                     | 1.25 (31.8)            | .55-.65 (14-16.5)    |
| KL-750                                                                                     | 1.52 (38.6)            | .70-.80 (17.8-20.3)  |
| KL-950                                                                                     | 1.75 (44.5)            | .90-1.00 (22.9-25.4) |
| Other colors available by special order.                                                   |                        |                      |
| *Available in UL94 V0 Nylon by special order. To order, add -19 to the end of the part no. |                        |                      |

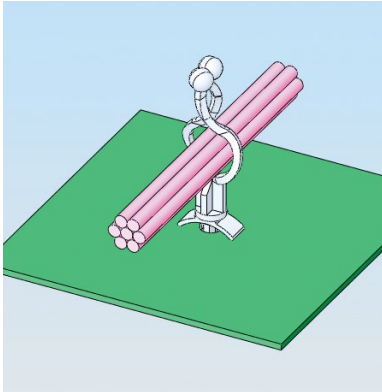
## SHK/SHKE Stand-Off Harness Clip



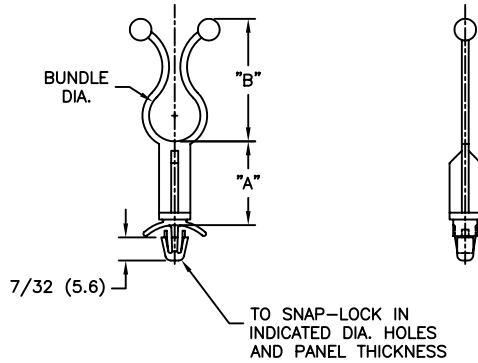
| Mat'l: Nylon 6/6, RMS-01* Color: Natural                                           |                  |            |            |
|------------------------------------------------------------------------------------|------------------|------------|------------|
| Standard Pack: 1,000 per bag                                                       |                  |            |            |
| Part No.                                                                           | "A" ± .015 (0.4) | "B" Ref.   | "C" Ref.   |
| SHK-6-01                                                                           | 3/8 (9.5)        | .54 (13.6) | .77 (19.5) |
| SHK-8-01                                                                           | 1/2 (12.7)       |            |            |
| SHKE-6-01                                                                          | 3/8 (9.5)        | .81 (20.6) | 1.14 (29)  |
| SHKE-8-01                                                                          | 1/2 (12.7)       |            |            |
| *UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19. |                  |            |            |



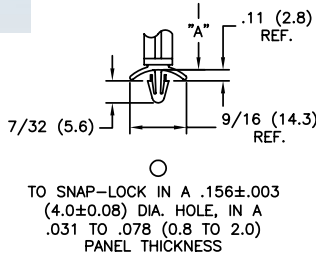
## STL Stand-Off Twist Lock



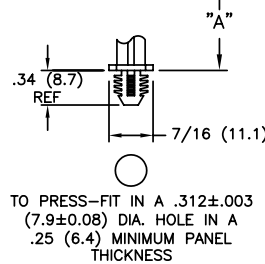
• UL #E71558



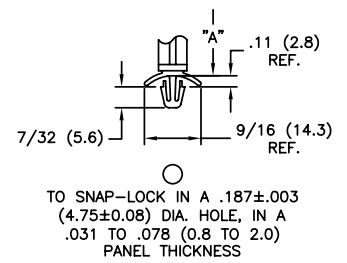
STL-1



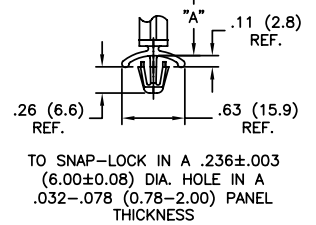
STL-3



STL



STL-6

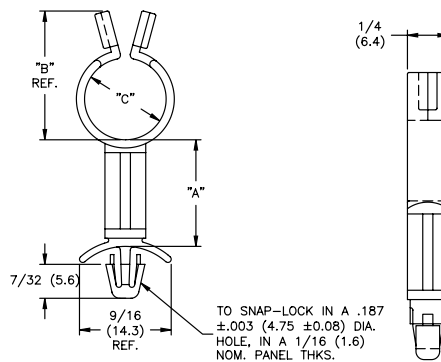
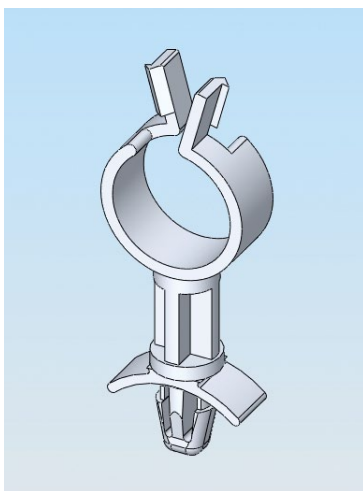


| Material: Nylon 6/6, RMS-01* Color: Natural |                |                |                | Standard Pack: 1,000 per bag |             |                         |
|---------------------------------------------|----------------|----------------|----------------|------------------------------|-------------|-------------------------|
| Part No.                                    |                |                |                | "A"                          | "B" Ref.    | Bundle Dia.             |
| STL-250-3-01                                | STL-1-250-3-01 | STL-3-250-3-01 | STL-6-250-3-01 | 3/16 (4.8)                   | .75 (19.1)  | .20 - .30 (5.1 - 7.6)   |
| STL-250-8-01                                | STL-1-250-8-01 | STL-3-250-8-01 | STL-6-250-8-01 | 1/2 (12.7)                   |             |                         |
| STL-350-3-01                                | STL-1-350-3-01 | STL-3-350-3-01 | STL-6-350-3-01 | 3/16 (4.8)                   | .91 (23.1)  | .30 - .40 (7.6 - 10.2)  |
| STL-350-8-01                                | STL-1-350-8-01 | STL-3-350-8-01 | STL-6-350-8-01 | 1/2 (12.7)                   |             |                         |
| STL-450-3-01                                | STL-1-450-3-01 | STL-3-450-3-01 | STL-6-450-3-01 | 3/16 (4.8)                   | 1.09 (27.7) | .40 - .50 (10.2 - 12.7) |
| STL-450-8-01                                | STL-1-450-8-01 | STL-3-450-8-01 | STL-6-450-8-01 | 1/2 (12.7)                   |             |                         |
| STL-600-3-01                                | STL-1-600-3-01 | STL-3-600-3-01 | STL-6-600-3-01 | 3/16 (4.8)                   | 1.28 (32.5) | .50 - .60 (12.7 - 15.2) |
| STL-600-8-01                                | STL-1-600-8-01 | STL-3-600-8-01 | STL-6-600-8-01 | 1/2 (12.7)                   |             |                         |
| STL-750-3-01                                | STL-1-750-3-01 | STL-3-750-3-01 | STL-6-750-3-01 | 3/16 (4.8)                   | 1.45 (36.8) | .70 - .80 (17.8 - 20.3) |
| STL-750-8-01                                | STL-1-750-8-01 | STL-3-750-8-01 | STL-6-750-8-01 | 1/2 (12.7)                   |             |                         |

\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.

Available by special order only. 5,000 piece minimum.

## SLCS Stand-Off Locking Clip



• UL #E71558

### Part No. Order Code

|          |       |     |          |
|----------|-------|-----|----------|
| SLCS     | - 500 | - 8 | - 01     |
| Part No. | Size  | "A" | Material |

| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Natural |             |                     |
|-----------------------------------------------------|-------------|---------------------|
| Standard Pack: 1,000 per bag                        |             |                     |
| Part No.                                            | "B"         | Max Bundle Ø Locked |
| SLCS-250-A-01                                       | .53 (13.5)  | 3/16 (4.8)          |
| SLCS-370-A-01                                       | .66 (16.8)  | 5/16 (7.9)          |
| SLCS-500-A-01                                       | .79 (20.1)  | 7/16 (11.1)         |
| SLCS-750-A-01                                       | 1.04 (26.4) | 11/16 (17.5)        |

\*UL94 V0 Nylon, RMS-19 available by special order, To order, replace -01 with -19

| "A" Part No. Ref. | "A"        |
|-------------------|------------|
| -3                | 3/16 (4.8) |
| -4                | 1/4 (6.4)  |
| -6                | 3/8 (9.5)  |
| -8                | 1/2 (12.7) |
| -16               | 1 (25.4)   |

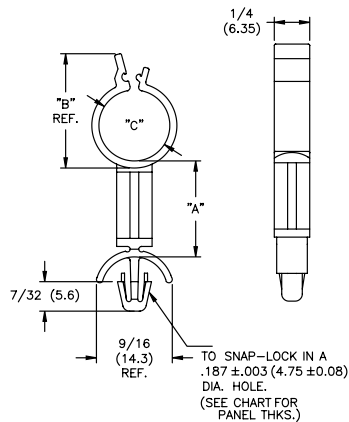
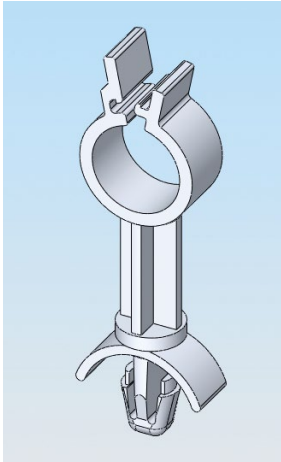
# CABLE MANAGEMENT

## SLCSE/SLCSE2

### Stand-Off Lock Clip



• UL #E71558



| Mat'l: UL94 V2 Nylon 6/6, RMS-01* Color: Natural                                                |            |             |                       |                            |
|-------------------------------------------------------------------------------------------------|------------|-------------|-----------------------|----------------------------|
| Standard Pack: 1,000 per bag                                                                    |            |             |                       |                            |
| Part No.                                                                                        | "A"        | "B"         | Panel Thickness Range | Max Bundle Dia. "C" Locked |
| SLCSE-250-3-01                                                                                  | 3/16 (4.8) | .57 (14.5)  | .031-.078 (0.8-2)     | .22 (5.6)                  |
| SLCSE-370-3-01                                                                                  |            | .71 (18)    |                       | .35 (8.9)                  |
| SLCSE-500-3-01                                                                                  |            | .83 (21)    |                       | .47 (12)                   |
| SLCSE-750-3-01                                                                                  |            | 1.08 (27.5) |                       | .73 (18.4)                 |
| SLCSE2-250-3-01                                                                                 |            | .57 (14.5)  | .078-.160 (2-4)       | .22 (5.6)                  |
| SLCSE2-370-3-01                                                                                 |            | .71 (18)    |                       | .35 (8.9)                  |
| SLCSE2-500-3-01                                                                                 |            | .83 (21)    |                       | .47 (12)                   |
| SLCSE2-750-3-01                                                                                 |            | 1.08 (27.5) |                       | .73 (18.4)                 |
| *Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19. |            |             |                       |                            |
| Available by special order only, 5,000 piece minimum                                            |            |             |                       |                            |

## SCCA/SCCB

### Standoff Cable Clamps

**NEW**

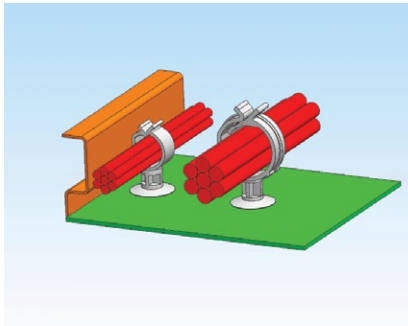


Fig. 1

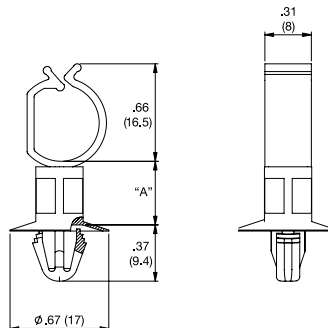
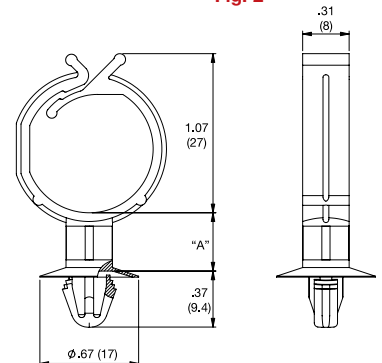


Fig. 2

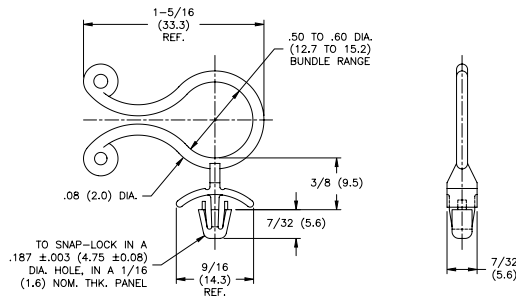


| Standard Pack: 1,000 per bag                                                              |                                                 |           |                                  |                            |                          |        |  |   |
|-------------------------------------------------------------------------------------------|-------------------------------------------------|-----------|----------------------------------|----------------------------|--------------------------|--------|--|---|
| UL94 V-2 Nylon<br>6/6, RMS-01*<br>Color: Natural                                          | UL94 V-0 Nylon<br>6/6, RMS-19<br>Color: Natural | "A"       | Max. Cable<br>Bundle<br>Diameter | Hole Diameter              | Panel Thickness          | Figure |  |   |
| SCCA-1-01                                                                                 | SCCA-1-19                                       | .16 (4)   | Ø .43<br>(11)                    | Ø .256 - .276<br>(6.5 - 7) | .024 - .079<br>(0.6 - 2) | 1      |  |   |
| SCCA-2-01                                                                                 | SCCA-2-19                                       | .24 (6)   |                                  |                            |                          |        |  |   |
| SCCA-3-01                                                                                 | SCCA-3-19                                       | .32 (8)   |                                  |                            |                          |        |  |   |
| SCCA-4-01                                                                                 | SCCA-4-19                                       | .39 (10)  |                                  |                            |                          |        |  |   |
| SCCA-5-01                                                                                 | SCCA-5-19                                       | .47 (12)  |                                  |                            |                          |        |  |   |
| SCCB-1-01                                                                                 | SCCB-1-19                                       | .16 (4)   | Ø .87<br>(22)                    |                            |                          |        |  | 2 |
| SCCB-2-01                                                                                 | SCCB-2-19                                       | .24 (6)   |                                  |                            |                          |        |  |   |
| SCCB-3-01                                                                                 | SCCB-3-19                                       | .32 (8)   |                                  |                            |                          |        |  |   |
| SCCB-4-01                                                                                 | SCCB-4-19                                       | .39 (10)  |                                  |                            |                          |        |  |   |
| SCCB-5-01                                                                                 | SCCB-5-19                                       | .47 (12)  |                                  |                            |                          |        |  |   |
| SCCB-6-01                                                                                 | SCCB-6-19                                       | 1.18 (30) |                                  |                            |                          |        |  |   |
| *Available in High Temperature material by special order. To order, replace -01 with -109 |                                                 |           |                                  |                            |                          |        |  |   |
| Available in black color by special order. To order, add BK to the end of the part no.    |                                                 |           |                                  |                            |                          |        |  |   |

## SKLO-550-01 Side Entry Kurly Lock



• UL #E71558

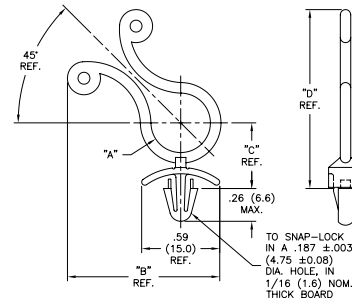


|                                                                          |
|--------------------------------------------------------------------------|
| <b>Material:</b> Nylon 6/6, <b>RMS-01*</b> <b>Color:</b> Natural         |
| <b>Standard Pack:</b> 1,000 per bag                                      |
| <b>*UL94 V0 Nylon, RMS-19 available. To order, replace -01 with -19.</b> |

## SKL 45° Kurly Lock

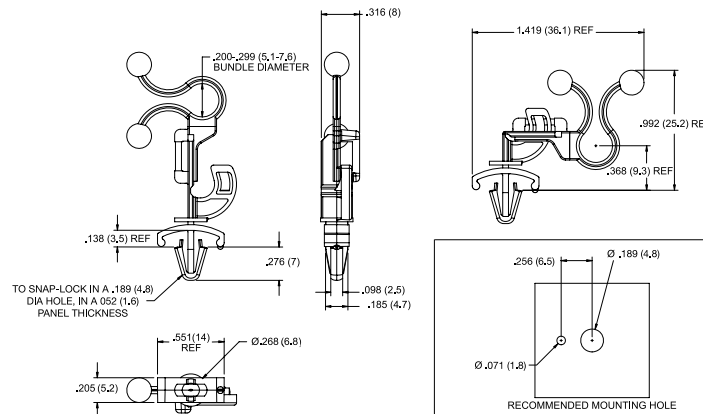
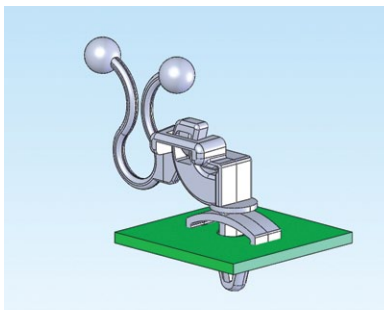


• UL #E71558



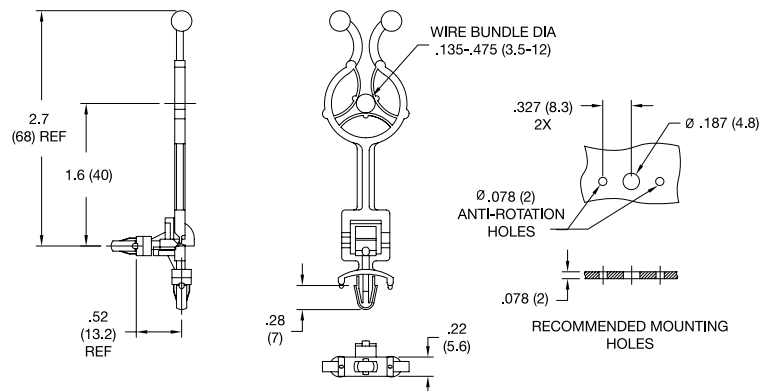
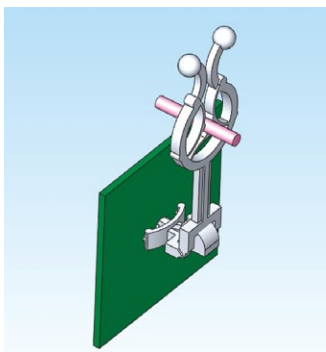
| Material: UL94 V2 Nylon 6/6, <b>RMS-01*</b>                                                          |                       |             | Color: Natural |             |
|------------------------------------------------------------------------------------------------------|-----------------------|-------------|----------------|-------------|
| Standard Pack: 1,000 per bag                                                                         |                       |             |                |             |
| Part No.                                                                                             | "A" Bundle Dia. Range | "B"         | "C" Ref.       | "D" Ref.    |
| SKL45-250                                                                                            | .15-.25 (3.8-6.35)    | .98 (24.9)  | .33 (8.5)      | 1.05 (26.7) |
| SKL45-350                                                                                            | .30-.40 (7.6-10)      | 1.07 (27.2) | .43 (11)       | 1.20 (30.5) |
| SKL45-450                                                                                            | .40-.47 (10-12)       | 1.12 (28.4) | .47 (12)       | 1.30 (33)   |
| <b>*Available in UL94 V0 material by special order. To order, add -19 to the end of the part no.</b> |                       |             |                |             |

## TLSE1-250-19 Hinged Twist Lock



|                                                                      |                                    |
|----------------------------------------------------------------------|------------------------------------|
| <b>Mat'l:</b> UL94 V0 Nylon 6/6, <b>RMS-19</b> <b>Color:</b> Natural | <b>Standard Pack:</b> 1000 per bag |
| <b>Part No.</b>                                                      | TLSE1-250-19                       |

## TLHS90-300-01 Hinged Twist Lock with Stand-Off



|                                                                                           |
|-------------------------------------------------------------------------------------------|
| <b>Material:</b> Nylon 6/6, <b>RMS-01*</b> <b>Color:</b> Natural                          |
| <b>Standard Pack:</b> 500 per bag                                                         |
| <b>*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.</b> |

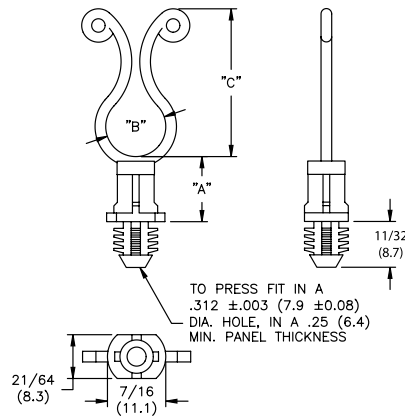
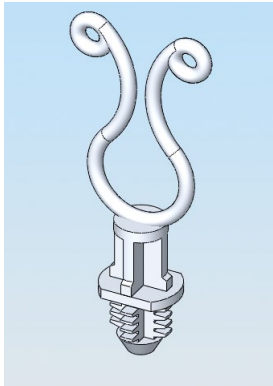
# CABLE MANAGEMENT

## BHKL

### Blind Hole Kurly Lock



• UL #E71558

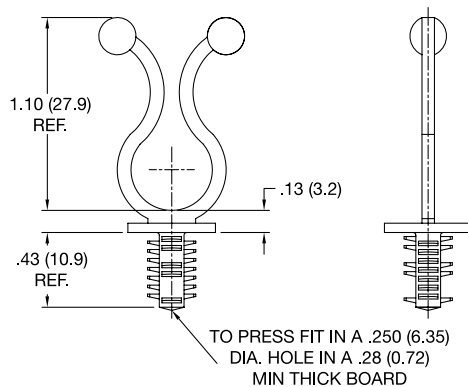


| Material: Nylon 6/6, RMS-01* Color: Natural |                              |                       |                |
|---------------------------------------------|------------------------------|-----------------------|----------------|
| Part No.                                    | Standard Pack: 1,000 per bag |                       |                |
|                                             | "A"                          | "B" Bundle Dia. Range | "C" Ref        |
| BHKL-350-4-01                               | 1/4 (6.4)                    | .30 -.40 (7.6-10.2)   | 1 (25.4)       |
| BHKL-350-10-01                              | 5/8 (15.9)                   |                       |                |
| BHKL-450-4-01                               | 1/4 (6.4)                    | .40-.50 (10.2-12.7)   | 1 - 1/8 (28.6) |
| BHKL-450-6-01                               | 3/8 (9.5)                    |                       |                |
| BHKL-750-4-01                               | 1/4 (6.4)                    | .70-.80 (17.8-20.3)   | 1 - 1/2 (38.1) |
| BHKL-750-6-01                               | 3/8 (9.5)                    |                       |                |

\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.

## STL-8-450-2-01

### Blind Hole Twist-Lock



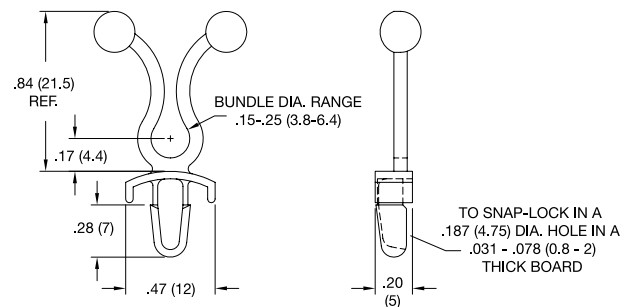
|                                                                                       |
|---------------------------------------------------------------------------------------|
| Material: Nylon 6/6, RMS-01* • Color: Natural                                         |
| Standard Pack: 1,000 per bag                                                          |
| *UL94 V0 Nylon, RMS-19 available by special order. To order replace the -01 with -19. |

## TLJ-200-01

### Twist Lock, Type "J"



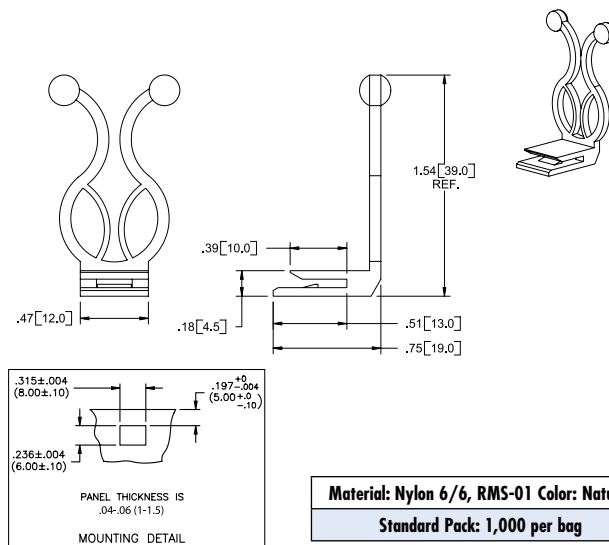
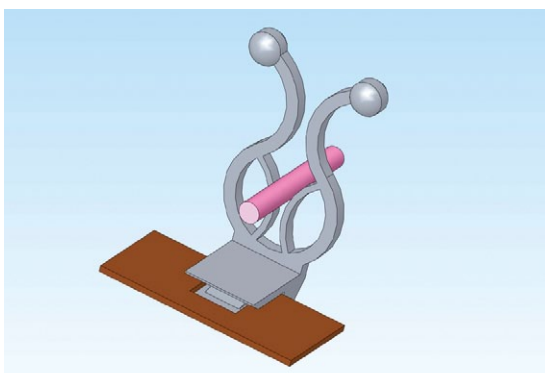
• UL #E71558



|                                                                                    |
|------------------------------------------------------------------------------------|
| Material: Nylon 6/6, RMS-01* Color: Natural                                        |
| Standard Pack: 500 per bag                                                         |
| *UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19. |

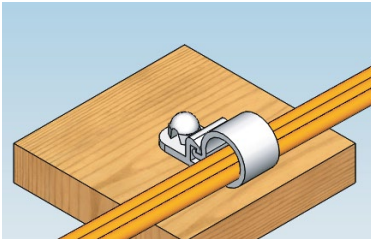
## WSTL-SME-16.5-01

### Webbed Twist Lock, Panel Mount



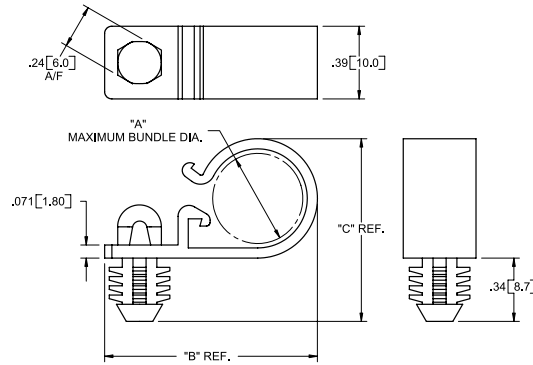
|                                            |
|--------------------------------------------|
| Material: Nylon 6/6, RMS-01 Color: Natural |
| Standard Pack: 1,000 per bag               |

## BHLWHC Blind Hole Mounted Clip



### Features

- Easily pushed into mounting hole using a standard 6mm hexagonal socket pressed onto the mounting head



| Mat'l: Nylon 6/6, RMS-01* Color: Natural |                |                    |             |             |                  |
|------------------------------------------|----------------|--------------------|-------------|-------------|------------------|
| Standard Pack: 1,000 per bag             |                |                    |             |             |                  |
| Part No.                                 | Max Bundle Dia | Mounting Hole Dia. | Dim. "B"    | Dim. "C"    | Panel Thickness  |
| BHLWHC-500-01                            | .50 (12.7)     | .312 ± .002        | 1.15 (29.3) | 1.00 (25.4) | .250 (6.35) Min. |
| BHLWHC-750-01                            | .75 (19.1)     | (7.92 ± 0.05)      | 1.44 (36.5) | 1.34 (34.1) |                  |

\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.

## PAKKL Plug In Adjustable Clip

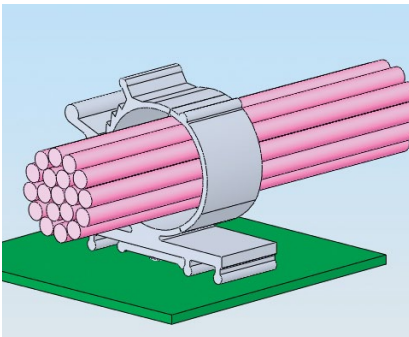


Fig. 1

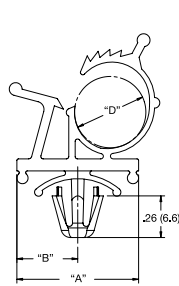
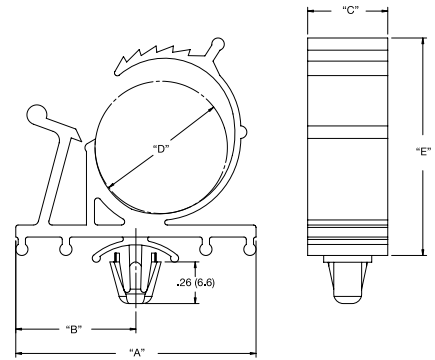
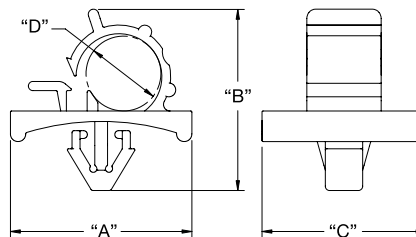
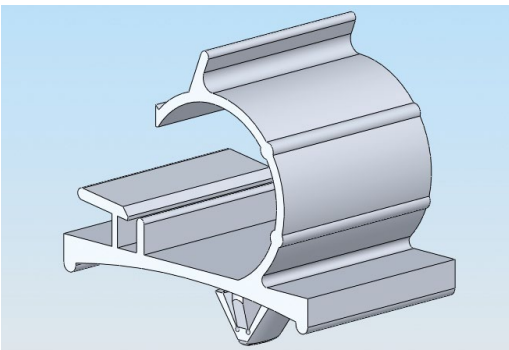


Fig. 2



| Color: Natural           |                           |                            |            |            |                       |             |                    |                               |      |
|--------------------------|---------------------------|----------------------------|------------|------------|-----------------------|-------------|--------------------|-------------------------------|------|
| Part No.                 |                           | Standard Pack: 100 per bag |            |            |                       |             |                    |                               |      |
| Material: UL94V2, RMS-01 | Material: UL94 V0, RMS-19 | "A"                        | "B"        | "C"        | "D" Holding Dia. Ref  | "E" Ref.    | Mounting Hole Dia. | Mounting Hole Panel Thickness | Fig. |
| PAKKL-3140-01            | PAKKL-3140-19             | .75 (19.1)                 | .38 (9.7)  | .35 (8.9)  | .310-.400 (7.9-10.2)  | .94 (23.8)  | .250 (6.35)        | .030-.060 (0.8-1.5)           | 1    |
| PAKKL-4756-01            | PAKKL-4756-19             | 1.24 (31.5)                | .62 (15.7) | .40 (10.2) | .469-.563 (11.9-14.3) | 1.17 (29.8) |                    |                               | 2    |
| PAKKL-5775-01            | PAKKL-5775-19             | 1.50 (38.1)                | .75 (19.1) | .50 (12.7) | .578-.750 (14.7-19.1) | 1.36 (34.5) |                    |                               |      |

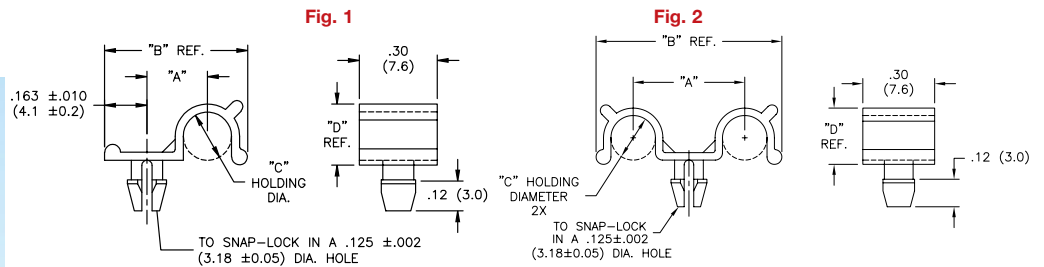
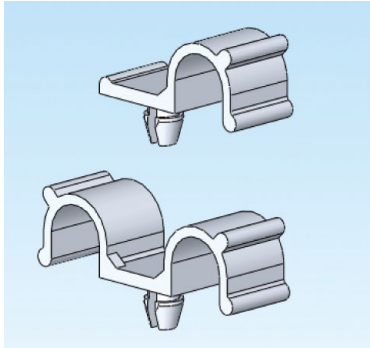
## PKKL Plug In Locking Clip



| Material: UL94 V2 Nylon 6/6, RMS-01 |              |             |            |                  | Color: Natural     |                     |               |
|-------------------------------------|--------------|-------------|------------|------------------|--------------------|---------------------|---------------|
| Part No.                            | "A"          | "B"         | "C"        | Holding Dia. "D" | Mounting Hole Dia. | Panel Thickness     | Standard Pack |
| PKKL-3                              | 1.020 (25.9) | .921 (23.4) | .670 (17)  | .374 (9.5)       | .256 (6.5)         | .031-.062 (0.8-1.6) | 200           |
| PKKL-3S                             | .830 (21.1)  | .828 (21)   | .75 (19.1) | .307 (7.8)       |                    |                     | 100           |
| PKKL-4                              | 1.19 (30.3)  | 1.26 (32)   | .76 (19.4) | .532 (13.5)      |                    |                     |               |

# CABLE MANAGEMENT

## HURC/DHURC Plug In Routing Clips

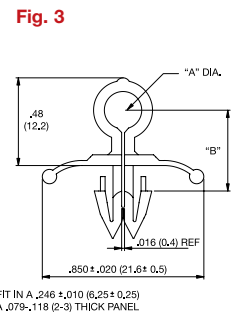
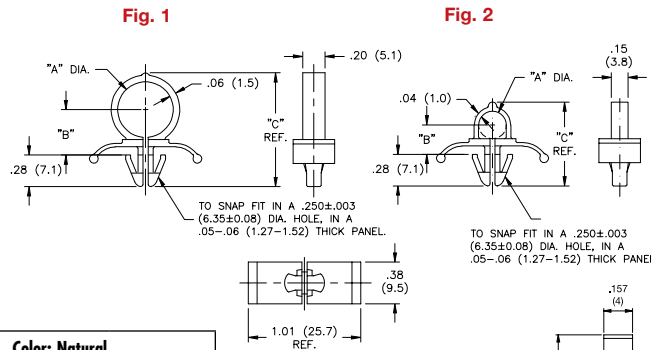
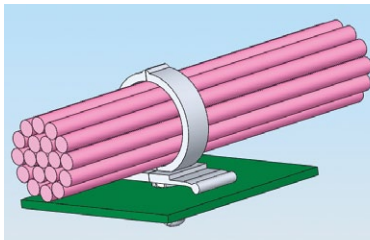


| Mat'l: UL94 V2 Nylon 6/6, RMS-01* Color: Natural Standard Pack: 1,000 per bag |                  |            |            |           |            |     |
|-------------------------------------------------------------------------------|------------------|------------|------------|-----------|------------|-----|
| Part No.                                                                      | "C" Holding Dia. | "A"        | "B" Ref.   | "D" Ref.  | Panel Thk  | Fig |
| HURC-2-01                                                                     | 1/8 (3.2)        | .20 (5.1)  | .49 (12.4) | .17 (4.3) | .062 (1.6) | 1   |
| HURC-3-01                                                                     | 3/16 (4.8)       | .24 (6.1)  | .56 (14.2) | .24 (6.1) |            |     |
| HURC-4-01                                                                     | 1/4 (6.4)        | .27 (6.9)  | .62 (15.7) | .30 (7.6) |            |     |
| HURC1-2-01                                                                    | 1/8 (3.2)        | .20 (5.1)  | .49 (12.4) | .17 (4.3) |            |     |
| HURC1-3-01                                                                    | 3/16 (4.8)       | .24 (6.1)  | .56 (14.2) | .24 (6.1) | .093 (2.4) |     |
| HURC1-4-01                                                                    | 1/4 (6.4)        | .27 (6.9)  | .62 (15.7) | .30 (7.6) |            |     |
| DHURC-2-01                                                                    | 1/8 (3.2)        | .41 (10.4) | .66 (16.8) | .17 (4.3) | .062 (1.6) | 2   |
| DHURC-3-01                                                                    | 3/16 (4.8)       | .48 (12.2) | .79 (20.1) | .24 (6.1) |            |     |
| DHURC-4-01                                                                    | 1/4 (6.4)        | .55 (14)   | .94 (23.9) | .30 (7.6) |            |     |

\*Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19.

**UL**  
• UL #E71558

## SRC Split Routing Clip

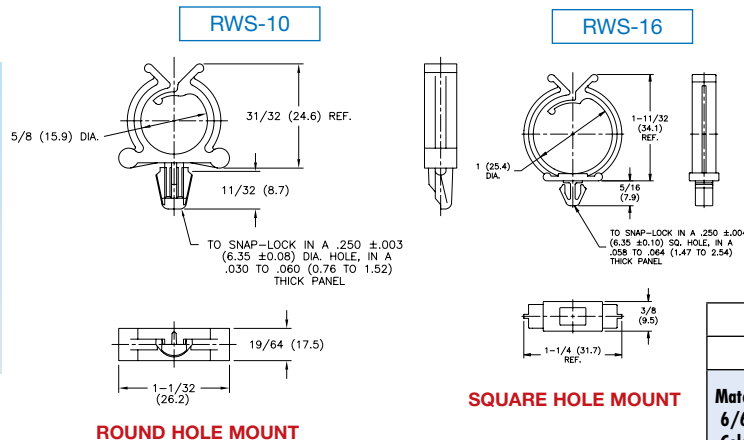
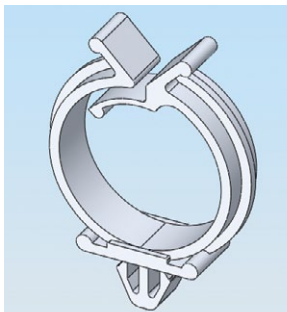


**UL**  
• UL #E71558  
Does not apply  
to SRC-1-01

| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Natural |             |             |             |      |
|-----------------------------------------------------|-------------|-------------|-------------|------|
| Standard Pack: 1,000 per bag                        |             |             |             |      |
| Part No.                                            | "A" Dia.    | "B"         | "C" Ref     | Fig. |
| NEW SRC-1-01                                        | .197 (5)    | .443 (11.2) | .878 (22.3) | 3    |
| SRC-4-01                                            | 1/4 (6.4)   | .26 (6.6)   | .75 (19.1)  | 2    |
| SRC-7-01                                            | 7/16 (11.1) | .39 (9.8)   | .97 (24.7)  | 1    |
| SRC-8-01                                            | 1/2 (12.7)  | .43 (10.8)  | 1.04 (26.5) |      |
| SRC-10-01                                           | 5/8 (15.9)  | .50 (12.7)  | 1.18 (29.9) |      |

\*UL94 V0 nylon, RMS-19 available by special order. To order, replace -01 with -19

## RWS Round Wire Saddle



ROUND HOLE MOUNT

SQUARE HOLE MOUNT

| Standard Pack: 1,000 per bag               |                                          |                                                    |
|--------------------------------------------|------------------------------------------|----------------------------------------------------|
| Part No.                                   |                                          |                                                    |
| Material: Nylon 6/6, RMS-01 Color: Natural | Material: Nylon 6/6, RMS-01 Color: Black | Material: UL94 V0 Nylon 6/6, RMS-19 Color: Natural |
| RWS-10-01                                  | RWS-10-01BK                              | RWS-10-19                                          |
| RWS-16-01                                  | RWS-16-01BK                              | RWS-16-19                                          |

**UL**  
• UL #E71558



## CH/RSC

### Snap In Cable Hanger

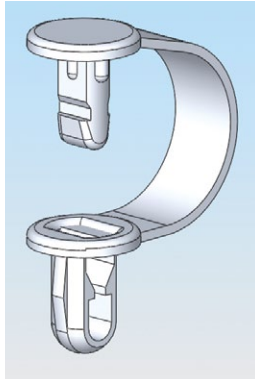


Fig. 1

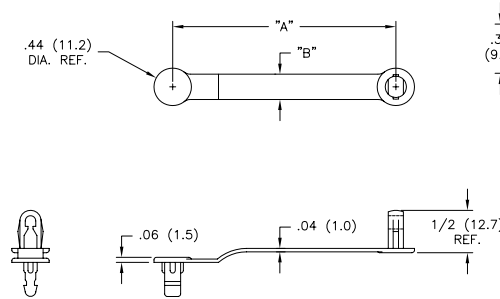
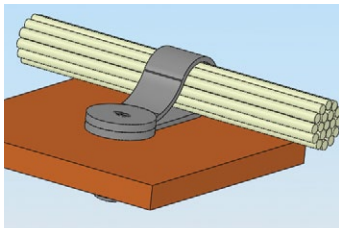
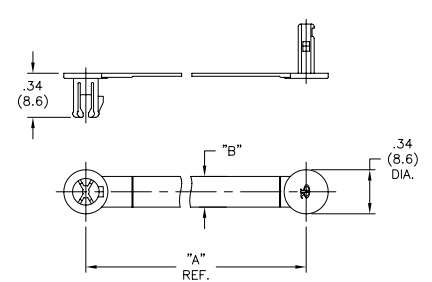


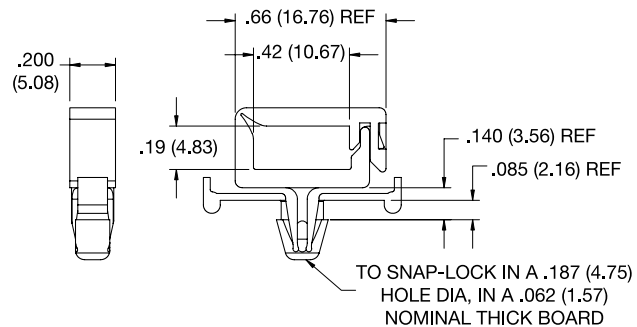
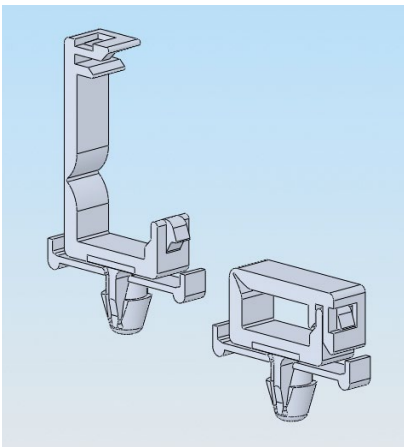
Fig. 2



| Standard Pack: 1,000 per bag |                |             |                 |                   |                     |                                     |         |     |  |
|------------------------------|----------------|-------------|-----------------|-------------------|---------------------|-------------------------------------|---------|-----|--|
| Part No                      | "A" Length Ref | "B" Width   | Max Holding Dia | Mounting Hole Dia | Panel Thickness     | Material                            | Color   | Fig |  |
| CH-1-01                      | 1-3/4 (44.5)   | 19/64 (7.5) | 3/8 (9.5)       | 1/4 (6.4)         | 1/32-3/32 (0.8-2.4) | UL94 V2 Nylon<br>6/6, RMS-01        | Natural | 1   |  |
| CH-2-01                      | 2-5/8 (66.7)   |             | 5/8 (15.9)      |                   |                     |                                     |         |     |  |
| CH-3-01                      | 3-3/4 (95.3)   |             | 1 (25.4)        |                   |                     |                                     |         |     |  |
| CH-1-01BK                    | 1-3/4 (44.5)   |             | 3/8 (9.5)       |                   |                     |                                     | Black   |     |  |
| CH-2-01BK                    | 2-5/8 (66.7)   |             | 5/8 (15.9)      |                   |                     |                                     |         |     |  |
| CH-3-01BK                    | 3-3/4 (95.3)   |             | 1 (25.4)        |                   |                     | UL94 HB<br>Polypropylene,<br>RMS-10 |         |     |  |
| CH-1-10                      | 1-3/4 (44.5)   |             | 3/8 (9.5)       |                   |                     |                                     |         |     |  |
| CH-2-10                      | 2-5/8 (66.7)   |             | 5/8 (15.9)      |                   |                     | Natural                             |         |     |  |
| CH-3-10                      | 3-3/4 (95.3)   |             | 1 (25.4)        |                   |                     |                                     |         |     |  |
| CH-1-10BK                    | 1-3/4 (44.5)   |             | 3/8 (9.5)       |                   |                     | Black                               |         |     |  |
| CH-2-10BK                    | 2-5/8 (66.7)   |             | 5/8 (15.9)      |                   |                     |                                     |         |     |  |
| CH-3-10BK                    | 3-3/4 (95.3)   |             | 1 (25.4)        |                   |                     |                                     |         |     |  |
| RSC-3-01                     | 1.10 (28)      | .16 (4)     | 7/32 (5.6)      | .189 (4.8)        | .031-.125 (0.8-3.2) | UL94 V2 Nylon<br>6/6, RMS-01        | Black   | 2   |  |
| RSC-4-01                     | 1.30 (33)      | .24 (6)     | 1/4 (6.4)       |                   |                     |                                     |         |     |  |
| RSC-6-01                     | 1.69 (43)      |             | 3/8 (9.5)       |                   |                     |                                     |         |     |  |
| RSC-9-01                     | 2.48 (63)      |             | 5/8 (15.9)      |                   |                     |                                     |         |     |  |

## WSLTRA-1-01

### Wire Saddle with Releasable Arrowhead



| WSLTRA-1-01                                                                        |
|------------------------------------------------------------------------------------|
| Material: Nylon 6/6, RMS-01*                                                       |
| Color: Natural                                                                     |
| Standard Pack: 1,000 per bag                                                       |
| *UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19. |

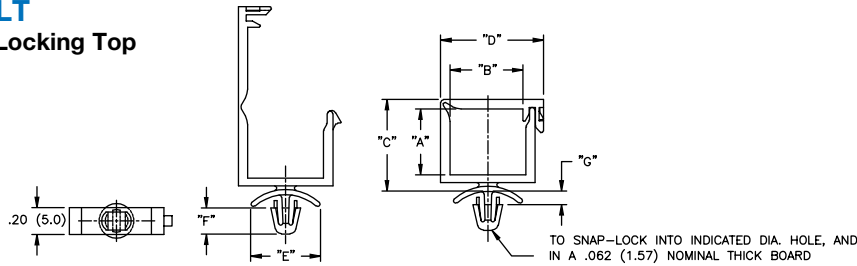


# CABLE MANAGEMENT

## WSLT

### Wire Saddle, Locking Top

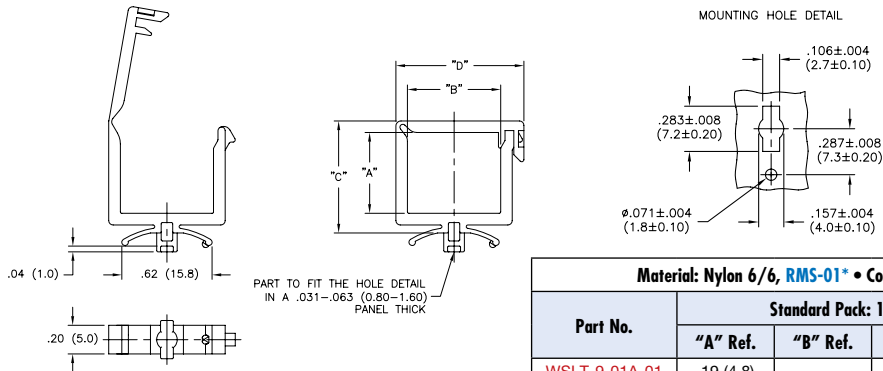
• UL #E71558



| Part No.                               | Standard Pack: 1,000 per bag                   |            |            |             |            |            |            |           |                          |
|----------------------------------------|------------------------------------------------|------------|------------|-------------|------------|------------|------------|-----------|--------------------------|
| Mat'l: Nylon 6/6, RMS-01 Color Natural | Mat'l: UL94 V0 Nylon 6/6, RMS-19 Color Natural | "A"        | "B"        | "C"         | "D"        | "E"        | "F"        | "G"       | Hole Dia. ± .003 (±0.08) |
| WSLT-3.5-2-1-01                        | WSLT-3.5-2-1-19                                | .14 (3.4)  | .53 (13.5) | .35 (8.9)   | .77 (19.6) | .38 (9.5)  | .118 (3)   | .10 (2.5) | .138 (3.5)               |
| WSLT-02-1-01                           | WSLT-02-1-19                                   |            |            | .37 (9.4)   |            |            |            |           |                          |
| WSLT-01A-01                            | WSLT-01A-19                                    | .19 (4.8)  | .42 (10.7) | .42 (10.6)  | .66 (16.8) | .56 (14.3) | 7/32 (5.6) | .11 (2.8) | .187 (4.75)              |
| WSLT-01-2-01                           | WSLT-01-2-19                                   | .35 (8.8)  |            | .57 (14.6)  |            |            |            |           |                          |
| WSLT-02A-01                            | WSLT-02A-19                                    | .39 (10)   | .64 (16.3) | .62 (15.8)  | .88 (22.4) |            |            |           |                          |
| WSLT-03-2-01                           | WSLT-03-2-19                                   | .55 (14.1) |            | .77 (19.6)  |            |            |            |           |                          |
| WSLT-03-3-01                           | WSLT-03-3-19                                   | .85 (21.7) | .71 (18)   | 1.07 (27.3) | .95 (24.1) |            |            |           |                          |

## WSLT-9

### Wire Saddle, Locking Top Quarter-Turn Base



MOUNTING HOLE DETAIL

Material: Nylon 6/6, RMS-01 • Color: Natural

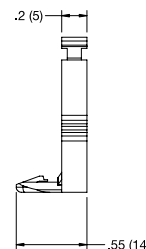
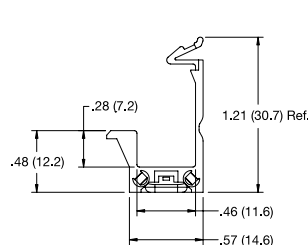
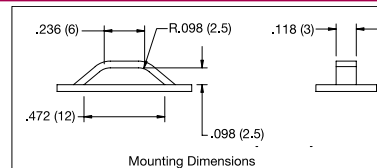
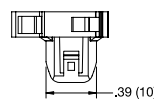
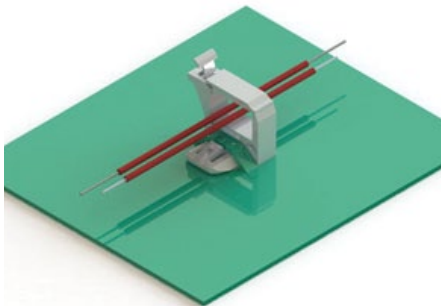
| Part No.        | Standard Pack: 1,000 per bag |            |             |            |  |
|-----------------|------------------------------|------------|-------------|------------|--|
| "A" Ref.        | "B" Ref.                     | "C" Ref.   | "D" Ref.    |            |  |
| WSLT-9-01A-01   | .19 (4.8)                    | .42 (10.7) | .40 (10.2)  | .66 (16.8) |  |
| WSLT-9-01-2-01  | .36 (9.1)                    | .57 (14.4) |             |            |  |
| WSLT-9-02-1-01  | .14 (3.6)                    | .53 (13.5) | .36 (9.1)   | .77 (19.6) |  |
| WSLT-9-02A-1-01 | .39 (10)                     | .64 (16.3) | .60 (15.2)  | .88 (22.4) |  |
| WSLT-9-03-2-01  | .56 (14.1)                   | .76 (19.2) |             |            |  |
| WSLT-9-03-3-01  | .85 (21.7)                   | .71 (18)   | 1.06 (26.8) | .95 (24.1) |  |

\*UL94 V0 Nylon, RMS-19 available by special order.  
To order, replace -01 with -19

Available by special order only. 5,000 piece minimum.

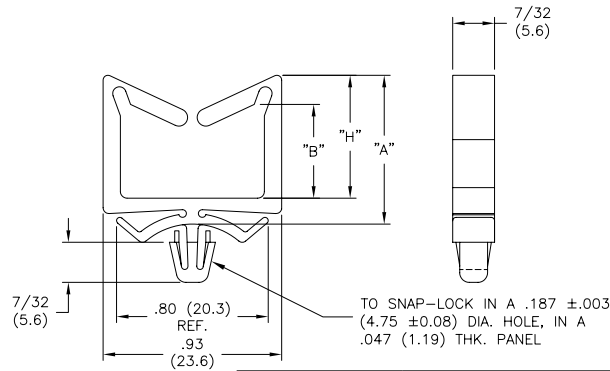
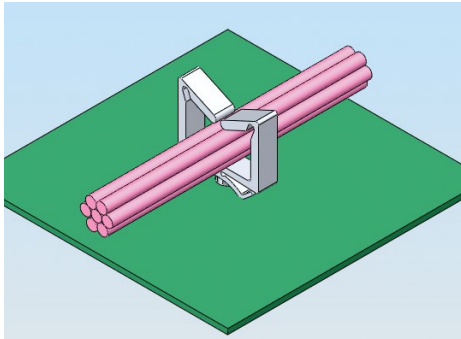
## SMWSLT-1-19

### Side Mount Wire Saddle



| SMWSLT-1-19                         |
|-------------------------------------|
| Material: UL94 V0 Nylon 6/6, RMS-19 |
| Color: Natural                      |
| Standard Pack: 1,000 per bag        |

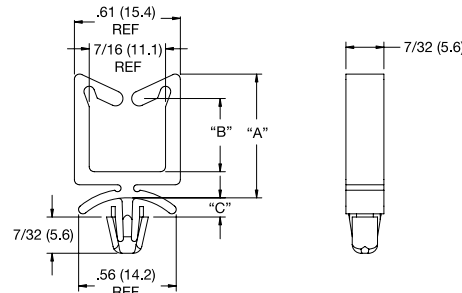
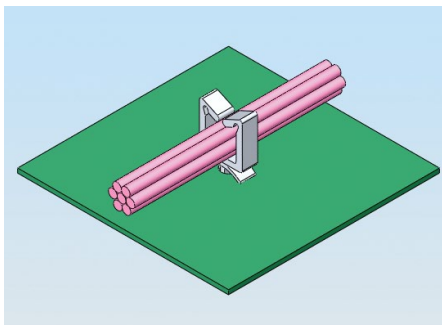
## WWS Wide Wire Saddle



**UL #E71558**

| Standard Pack: 1,000 per bag     |                                  |             |            |            |
|----------------------------------|----------------------------------|-------------|------------|------------|
| Part No.                         |                                  | "A" Ref.    | "B" Ref.   | "H" Ref.   |
| Mat'l: UL94 V2 Nylon 6/6, RMS-01 | Mat'l: UL94 V0 Nylon 6/6, RMS-19 |             |            |            |
| WWS-A-2-01                       | WWS-A-2-19                       | .77 (19.6)  | .50 (12.7) | .64 (16.3) |
| WWS-A-3-01                       | WWS-A-3-19                       | 1.12 (28.5) | .85 (21.6) | .99 (25.2) |

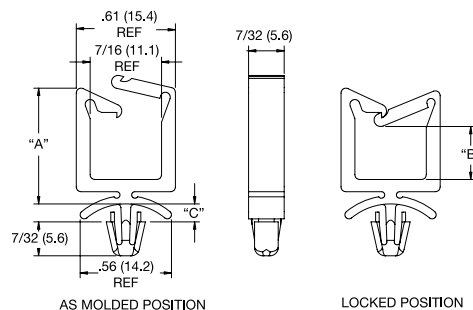
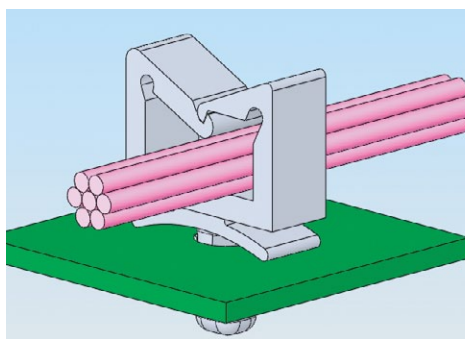
## WS-A Wire Saddle, Arrowhead Mount



**UL #E71558**

| Part No.                            |                                     | Standard Pack: 1,000 per bag; Color: Natural |             |           |                       |                    |  |
|-------------------------------------|-------------------------------------|----------------------------------------------|-------------|-----------|-----------------------|--------------------|--|
| Mat'l: UL94 V2 Nylon<br>6/6, RMS-01 | Mat'l: UL94 V0 Nylon<br>6/6, RMS-19 | "A" Ref.                                     | "B" Ref.    | "C" Ref.  | Mounting Hole<br>Dia. | Panel<br>Thickness |  |
| WS-A-1-01                           | WS-A-1-19                           | .52 (13.2)                                   | .19 (4.8)   | .11 (2.8) | .187 (4.75)           | .062 (1.6)         |  |
| WS-A-2-01                           | WS-A-2-19                           | .71 (18)                                     | .38 (9.7)   |           |                       |                    |  |
| WS-A-3-01                           | WS-A-3-19                           | 1.07 (27.2)                                  | .74 (18.8)  |           |                       |                    |  |
| WS-A-4-01                           | WS-A-4-19                           | 1.38 (35)                                    | 1.05 (26.7) | .15 (3.8) |                       |                    |  |
| WS-A-2-1-01                         | WS-A-2-1-19                         | .52 (13.2)                                   | .19 (4.8)   |           |                       |                    |  |
| WS-A-2-2-01                         | WS-A-2-2-19                         | .71 (18)                                     | .38 (9.7)   |           |                       |                    |  |
| WS-A-2-3-01                         | WS-A-2-3-19                         | 1.07 (27.2)                                  | .74 (18.8)  |           |                       |                    |  |
| WS-A-2-4-01                         | WS-A-2-4-19                         | 1.38 (35)                                    | 1.05 (26.7) |           |                       |                    |  |

## LWS-A Locking Wire Saddle, Arrowhead Mount



**UL #E71558**

| Part No.                            |                                     | Standard Pack: 1,000 per bag; Color: Natural |             |              |                       |                    |
|-------------------------------------|-------------------------------------|----------------------------------------------|-------------|--------------|-----------------------|--------------------|
| Mat'l: UL94 V2<br>Nylon 6/6, RMS-01 | Mat'l: UL94 V0<br>Nylon 6/6, RMS-19 | "A" Ref.                                     | "B" Ref.    | "C" Ref.     | Mounting<br>Hole Dia. | Panel<br>Thickness |
| LWS-A-1-01                          | LWS-A-1-19                          | .52 (13.2)                                   | .14 (3.6)   | .11<br>(2.8) | .187<br>(4.75)        | .062 (1.6)         |
| LWS-A-2-01                          | LWS-A-2-19                          | .71 (18)                                     | .33 (8.4)   |              |                       |                    |
| LWS-A-3-01                          | LWS-A-3-19                          | 1.07 (27.2)                                  | .69 (17.5)  |              |                       |                    |
| LWS-A-4-01                          | LWS-A-4-19                          | 1.38 (35)                                    | 1.00 (25.4) | .15<br>(3.8) |                       | .125 (3.2)         |
| LWS-A-2-1-01                        | LWS-A-2-1-19                        | .52 (13.2)                                   | .14 (3.6)   |              |                       |                    |
| LWS-A-2-2-01                        | LWS-A-2-2-19                        | .71 (18)                                     | .33 (8.4)   |              |                       |                    |
| LWS-A-2-3-01                        | LWS-A-2-3-19                        | 1.07 (27.2)                                  | .69 (17.5)  |              |                       |                    |
| LWS-A-2-4-01                        | LWS-A-2-4-19                        | 1.38 (35)                                    | 1.00 (25.4) |              |                       |                    |

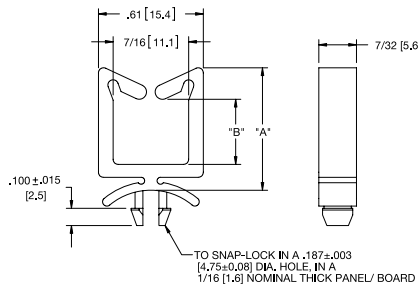
# CABLE MANAGEMENT

## WS

### Wire Saddle



• UL #E71558



Standard Pack: 1,000 per bag; Color: Natural

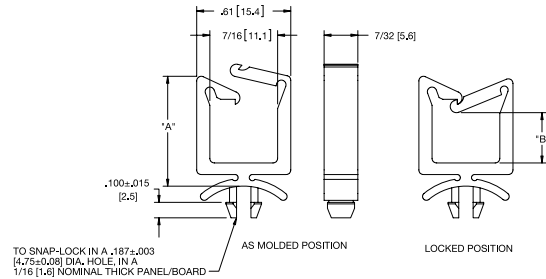
| Part No. | Mat'l: UL94 V2 Nylon 6/6, RMS-01 | Mat'l: UL94 V0 Nylon 6/6, RMS-19 | "A" Ref.    | "B" Ref.    |
|----------|----------------------------------|----------------------------------|-------------|-------------|
| WS-1-01  | WS-1-19                          |                                  | .52 (13.2)  | .19 (4.8)   |
| WS-2-01  | WS-2-19                          |                                  | .71 (18)    | .38 (9.7)   |
| WS-3-01  | WS-3-19                          |                                  | 1.07 (27.2) | .74 (18.8)  |
| WS-4-01  | WS-4-19                          |                                  | 1.38 (35)   | 1.05 (26.7) |

## LWS

### Locking Wire Saddle



• UL #E71558



Standard Pack: 1,000 per bag; Color: Natural

| Part No. | Mat'l: UL94 V2 Nylon 6/6, RMS-01 | Mat'l: UL94 V0 Nylon 6/6, RMS-19 | "A" Ref.    | "B" Ref.    |
|----------|----------------------------------|----------------------------------|-------------|-------------|
| LWS-1-01 | LWS-1-19                         |                                  | .52 (13.2)  | .14 (3.6)   |
| LWS-2-01 | LWS-2-19                         |                                  | .71 (18)    | .33 (8.4)   |
| LWS-3-01 | LWS-3-19                         |                                  | 1.07 (27.2) | .69 (17.5)  |
| LWS-4-01 | LWS-4-19                         |                                  | 1.38 (35)   | 1.00 (25.4) |

## WSBH/LWSBH

### Wire Saddle with Blind Hole Mount

• UL #E71558

Fig. 1

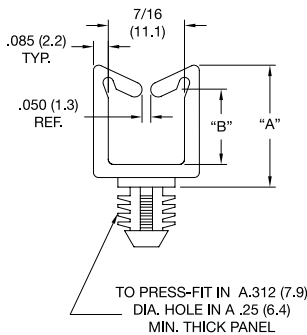
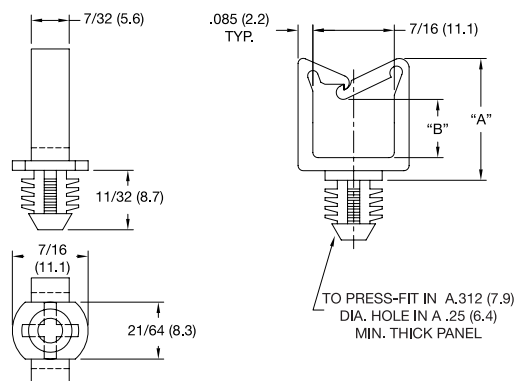


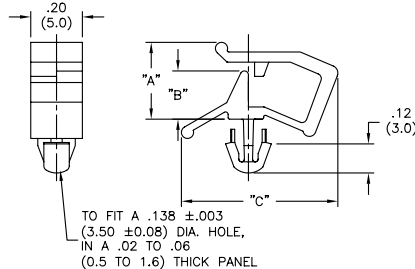
Fig. 2



| Mat'l: UL94 V2 Nylon 6/6, <b>RMS-01*</b>                                                         |             |             |      |
|--------------------------------------------------------------------------------------------------|-------------|-------------|------|
| Standard Pack: 1,000 per bag; Color: Natural                                                     |             |             |      |
| Part No.                                                                                         | "A" Ref.    | "B" Ref.    | Fig. |
| WSBH-1-01                                                                                        | .52 (13.2)  | .19 (4.8)   | 1    |
| WSBH-2-01                                                                                        | .71 (18)    | .38 (9.7)   |      |
| WSBH-3-01                                                                                        | 1.07 (27.2) | .74 (18.8)  |      |
| WSBH-4-01                                                                                        | 1.38 (35)   | 1.05 (26.7) |      |
| LWSBH-1-01                                                                                       | .52 (13.2)  | .14 (3.6)   | 2    |
| LWSBH-2-01                                                                                       | .71 (18)    | .33 (8.4)   |      |
| LWSBH-3-01                                                                                       | 1.07 (27.2) | .69 (17.5)  |      |
| LWSBH-4-01                                                                                       | 1.38 (35)   | 1.00 (25.4) |      |
| <b>*Available in UL94 V0 material by special order.</b><br><b>To order, replace -01 with -19</b> |             |             |      |

## WS-SE1

### Wire Saddle, Side Entry



Mat'l: UL94 V2 Nylon 6/6, RMS-01\*, Color: Natural

Standard Pack: 1,000 per bag

| Part No.    | "A" Ref.  | "B" Ref.  | "C" Ref.   |
|-------------|-----------|-----------|------------|
| WS-SE1-1-01 | .19 (4.8) | .09 (2.4) | .50 (12.7) |
| WS-SE1-2-01 | .26 (6.7) | .16 (4.2) | .59 (15.1) |
| WS-SE1-3-01 | .34 (8.5) | .23 (5.7) | .81 (20.3) |

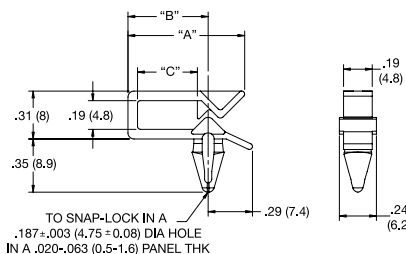
\*UL94 V0 Nylon available by special order.  
To order, replace the -01 with -19

## WS-SE2

### Wire Saddle, Side Entry



• UL #E71558



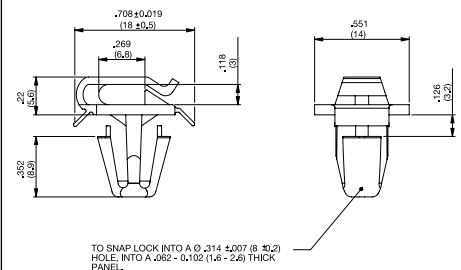
Material: Nylon 6/6, RMS-01\* Color: Natural

| Part No.    | Standard Pack: 1,000 per bag |            |           |
|-------------|------------------------------|------------|-----------|
|             | "A" Ref.                     | "B" Ref.   | "C" Ref.  |
| WS-SE2-1-01 | .65 (16.6)                   | .41 (10.5) | .28 (7.1) |
| WS-SE2-2-01 | .77 (19.5)                   | .53 (13.4) | .39 (10)  |

\*UL94 V0 Nylon, RMS-19 available by special order.  
To order replace the -01 with -19

## WS-SE3-1-01

### Wire Saddle, Side Entry



Mat'l: UL94 V2 Nylon 6/6, RMS-01\* Color: Natural

Standard Pack: 1,000 per bag

| Part No: | WS-SE3-1-01 |
|----------|-------------|
|----------|-------------|

\*Parts are available in UL94 V0 material by special order.  
To order, replace -01 with -19.

## WS-SE-A

### Wire Saddle, Side Entry

Fig. 1

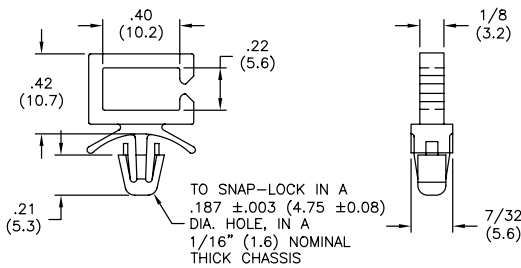


Fig. 3

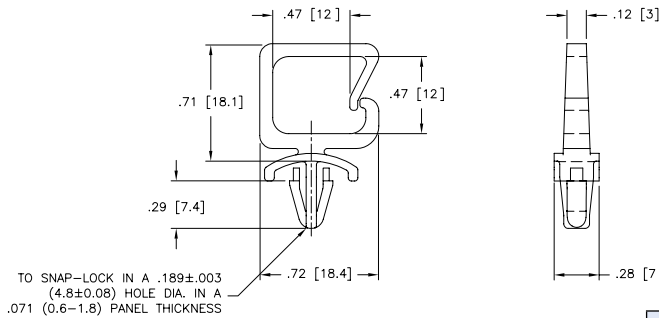


Fig. 2

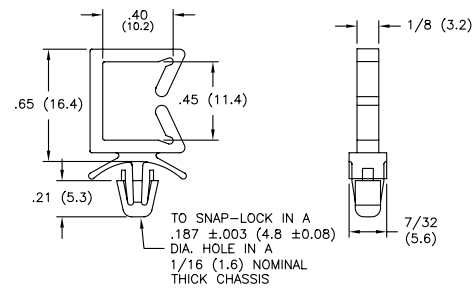
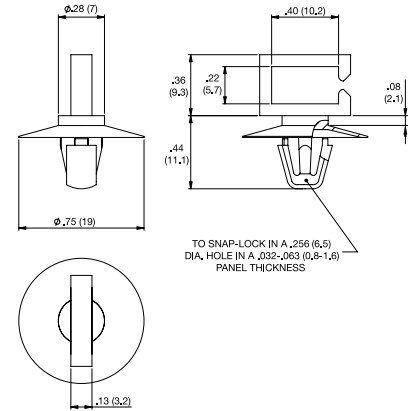


Fig. 4



| Part No.                                   |                                                    | Standard Pack: 1,000 per bag |
|--------------------------------------------|----------------------------------------------------|------------------------------|
| Mat'l: Nylon 6/6,<br>RMS-01 Color: Natural | Mat'l: UL94 V0 Nylon 6/6,<br>RMS-19 Color: Natural | Fig.                         |
| WS-SE-A-1-01                               | WS-SE-A-1-19                                       | 1                            |
| WS-SE-A-2-01                               | WS-SE-A-2-19                                       | 2                            |
| WS-SE-A-3-01                               | WS-SE-A-3-19                                       | 3                            |
| NEW WS-SE-A-4-01                           | WS-SE-A-4-19                                       | 4                            |

## WS-9/LWS-9

### Wire Saddle, Quarter Turn

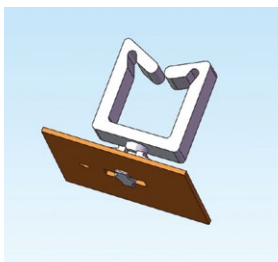
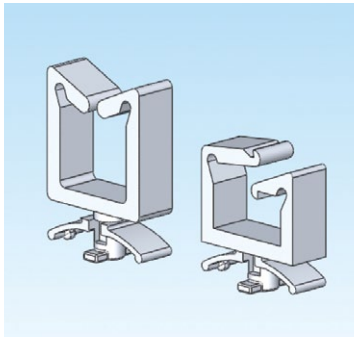


Fig. 1

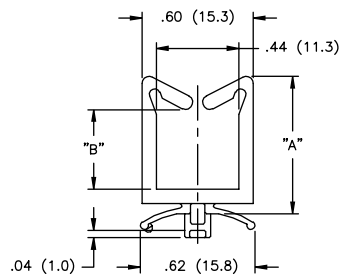
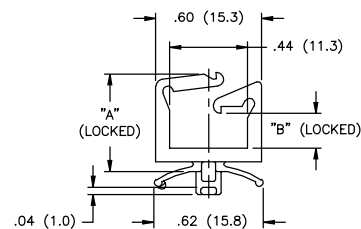
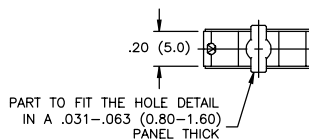
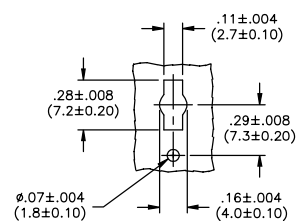


Fig. 2



MOUNTING HOLE DETAIL



| Mat'l: UL94 V2 Nylon 6/6, RMS-01*            |             |             |      |
|----------------------------------------------|-------------|-------------|------|
| Standard Pack: 1,000 per bag; Color: Natural |             |             |      |
| Part No.                                     | "A" Ref.    | "B" Ref.    | Fig. |
| WS-9-1-01                                    | .51 (13)    | .19 (4.8)   | 1    |
| WS-9-2-01                                    | .70 (17.8)  | .39 (10)    |      |
| WS-9-3-01                                    | 1.06 (26.9) | .75 (19.1)  |      |
| WS-9-4-01                                    | 1.37 (34.8) | 1.07 (27.2) | 2    |
| LWS-9-1-01                                   | .51 (13)    | .15 (3.8)   |      |
| LWS-9-2-01                                   | .71 (18)    | .39 (9.8)   |      |
| LWS-9-3-01                                   | 1.07 (27.2) | .75 (19)    |      |
| LWS-9-4-01                                   | 1.38 (35.1) | 1.06 (26.8) |      |

\*Available in UL94 V0 material by special order.  
To order, replace -01 with -19

# CABLE MANAGEMENT

## WS-SR/LWS-SR

### Wire Saddle- Snap Rivet Mount

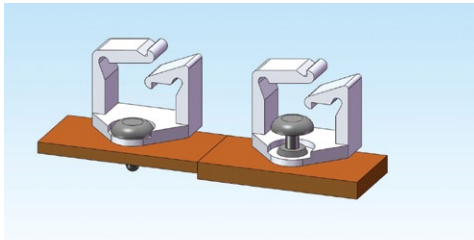


Fig. 1

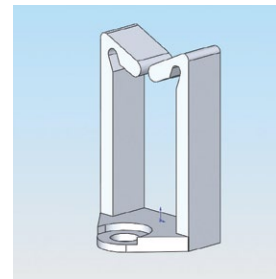
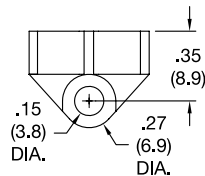
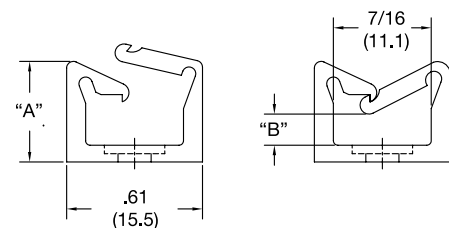
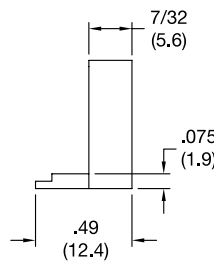
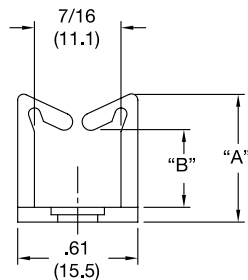


Fig. 2



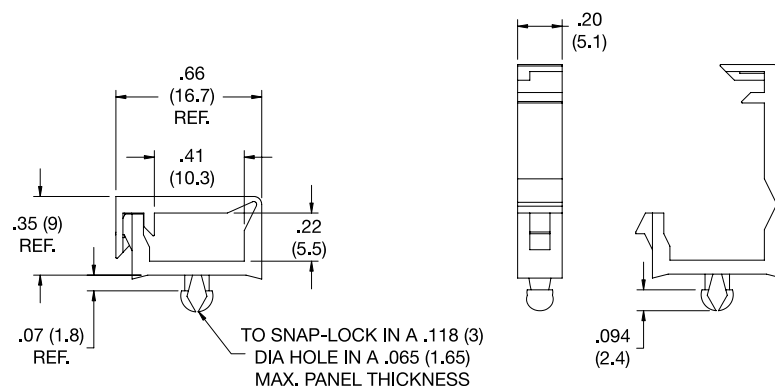
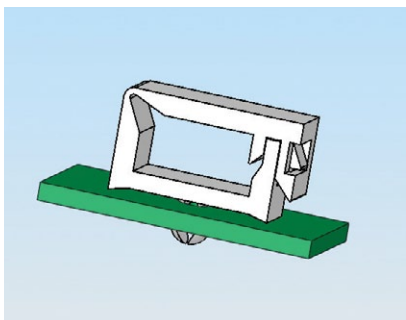
| Mat'l: Nylon 6/6, RMS-01* Color: Natural |                              |             |                            |     |
|------------------------------------------|------------------------------|-------------|----------------------------|-----|
| Part No.                                 | Standard Pack: 1,000 per bag |             |                            |     |
| Material: Nylon 6/6, RMS-01              | "A" Ref.                     | "B" Ref.    | Mounting Hole Dia.         | Fig |
| WS-SR-1-01                               | .45 (11.4)                   | .17 (4.3)   | .142 - .146<br>(3.6 - 3.7) | 1   |
| WS-SR-2-01                               | .64 (16.3)                   | .36 (9.1)   |                            |     |
| WS-SR-3-01                               | 1.00 (25.4)                  | .73 (18.5)  |                            |     |
| WS-SR-4-01                               | 1.31 (33.3)                  | 1.04 (26.4) |                            |     |
| LWS-SR-1-01                              | .45 (11.4)                   | .14 (3.6)   |                            | 2   |
| LWS-SR-2-01                              | .64 (16.3)                   | .34 (8.6)   |                            |     |
| LWS-SR-3-01                              | 1.00 (25.4)                  | .72 (18.3)  |                            |     |
| LWS-SR-4-01                              | 1.31 (33.3)                  | 1.00 (25.4) |                            |     |

\*Available in UL94 V0 material by special order only. To order, replace -01 with -19.

| Use Richco Rivet No. | Standard Pack: 1,000 per bag |
|----------------------|------------------------------|
|                      | For Chassis Thickness Range  |
| SR-3535              | .010-.046 (0.3-1.2)          |
| SR-3545              | .046-.081 (1.2-2.1)          |
| SR-3550              | .069-.105 (1.8-2.7)          |
| SR-3555              | .081-.120 (2.1-3)            |
| SR-3560              | .109-.144 (2.8-3.7)          |
| SR-3570              | .140-.180 (3.6-4.6)          |
| SR-3580              | .180-.219 (4.6-5.6)          |

## WSLT-T-01A-19

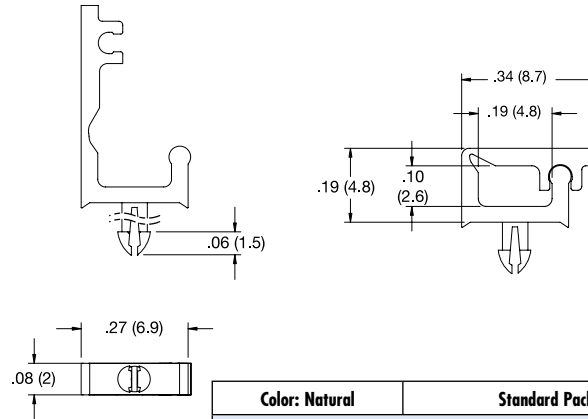
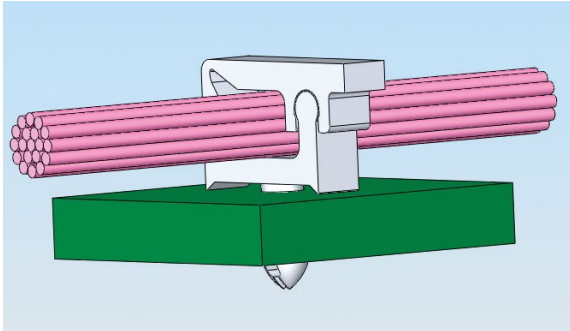
### Wire Saddle Locking Top Teardrop



Material: UL94V0 Nylon 6/6, RMS-19 Color: Black  
Standard Pack: 1,000 per Bag

## MWSLT

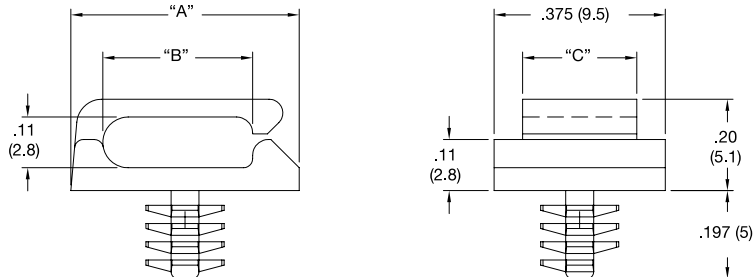
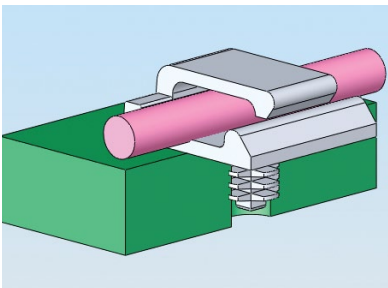
### Micro Wire Saddle, Locking Top



| Color: Natural                   |                                  | Standard Pack: 1,000 per bag |                 |
|----------------------------------|----------------------------------|------------------------------|-----------------|
| Part No.                         |                                  | Panel Hole Dia.              | Panel Thickness |
| Mat'l: UL94 V2 Nylon 6/6, RMS-01 | Mat'l: UL94 V0 Nylon 6/6, RMS-19 | .067 (1.7)                   | .063 (1.6)      |
| MWSLT-1-01                       | MWSLT-1-19                       |                              | .093 (2.4)      |
| MWSLT1-1-01                      | MWSLT1-1-19                      |                              |                 |

## MBHWSSE

### Micro Blind Hole Mount Wire Saddle

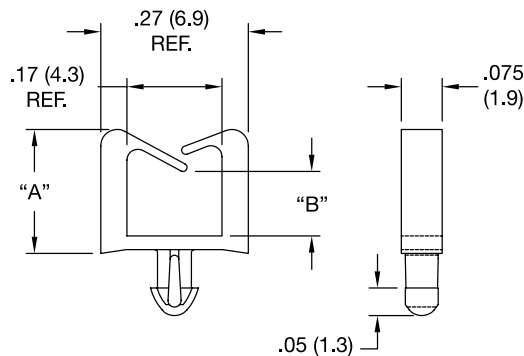
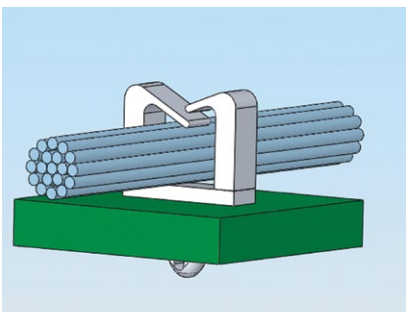


| Material: UL94 V2 Nylon 6/6, RMS-01*                                               |            |            |           | Color: Natural     |                     |
|------------------------------------------------------------------------------------|------------|------------|-----------|--------------------|---------------------|
| Standard Pack: 1,000 per bag                                                       |            |            |           |                    |                     |
| Part No.                                                                           | "A"        | "B"        | "C"       | Mounting Hole Dia. | Panel Thickness     |
| MBHWSSE-1-01                                                                       | .50 (12.7) | .33 (8.3)  | .25 (6.4) | .156 (4)           | .04 - .16 (1 - 4.1) |
| MBHWSSE1-1-01                                                                      | .67 (17)   | .49 (12.5) | .315 (8)  |                    |                     |
| *UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19. |            |            |           |                    |                     |

\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.

## MWS

### Micro Wire Saddle



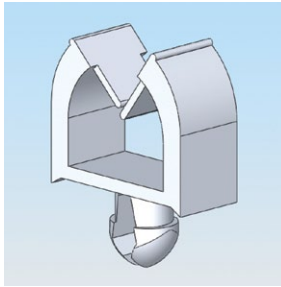
- UL #E71558  
Applies to  
MWS-1 only

| Color: Natural                      |                                     |            |           | Standard Pack: 1,000 per bag |                 |
|-------------------------------------|-------------------------------------|------------|-----------|------------------------------|-----------------|
| Part No.                            |                                     | “A” Ref.   | “B” Ref.  | Mounting Hole Dia.           | Panel Thickness |
| Mat'l: UL94 V2 Nylon<br>6/6, RMS-01 | Mat'l: UL94 V0 Nylon<br>6/6, RMS-19 |            |           |                              |                 |
| MWS-1-01                            | MWS-1-19                            | .23 (5.8)  | .12 (3)   | .070 (1.75)                  | .062 (1.57)     |
| MWS1-1-01                           | MWS1-1-19                           |            |           |                              | .093 (2.36)     |
| -                                   | MWS-2-19                            | .44 (11.2) | .33 (8.5) |                              | .063 (1.60)     |
| -                                   | MWS-3-19                            |            |           |                              | .087 (2.20)     |

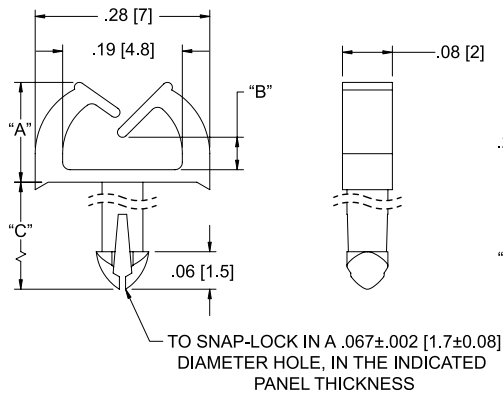
# CABLE MANAGEMENT

## MWSET

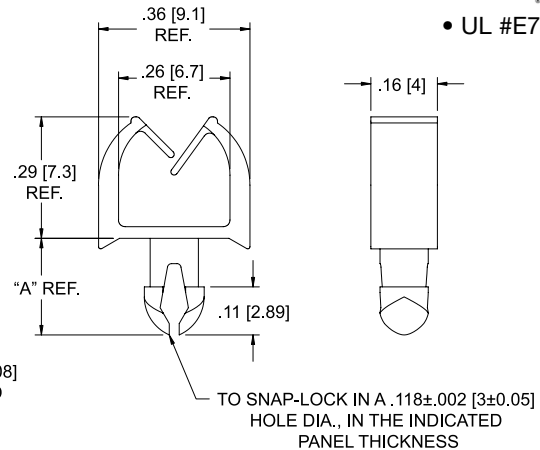
### Micro Wire Saddle



#### MWSET1



#### MWSET2



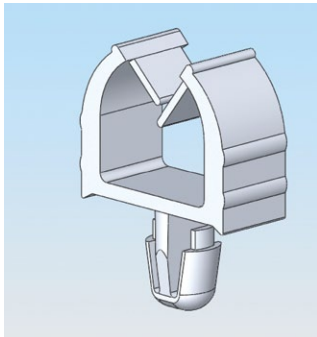
UL #E71558

| Part No.                    |                                     | Color: Natural Standard Pack: 1,000 per bag |           |           |                 |
|-----------------------------|-------------------------------------|---------------------------------------------|-----------|-----------|-----------------|
| Material: Nylon 6/6, RMS-01 | Material: UL94 V0 Nylon 6/6, RMS-19 | "A" Ref.                                    | "B" Ref.  | "C"       | Panel Thickness |
| MWSET1-1-01                 | MWSET1-1-19                         | .16 (4)                                     | .04 (0.9) | .13 (3.3) | .063 (1.6)      |
| MWSET1-2-01                 | MWSET1-2-19                         | .24 (6)                                     | .11 (2.9) | .13 (3.3) | .063 (1.6)      |
| MWSET1-1-1-01               | MWSET1-1-1-19                       | .16 (4)                                     | .04 (0.9) | .16 (4.1) | .093 (2.4)      |
| MWSET1-2-1-01               | MWSET1-2-1-19                       | .24 (6)                                     | .11 (2.9) | .16 (4.1) | .093 (2.4)      |

| Part No.                    |                                     | Color: Natural Standard Pack: 1,000 per bag |                     |
|-----------------------------|-------------------------------------|---------------------------------------------|---------------------|
| Material: Nylon 6/6, RMS-01 | Material: UL94 V0 Nylon 6/6, RMS-19 | "A" Ref.                                    | Panel Thickness     |
| MWSET2-1-01                 | MWSET2-1-19                         | .169 (4.29)                                 | .039-.047 (1-1.2)   |
| MWSET2-2-01                 | MWSET2-2-19                         | .189 (4.79)                                 | .047-.063 (1.2-1.6) |

## MWSEA

### Micro Wire Saddle



UL #E71558

Fig. 1

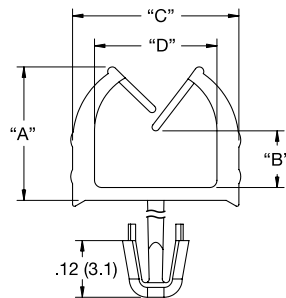


Fig. 2

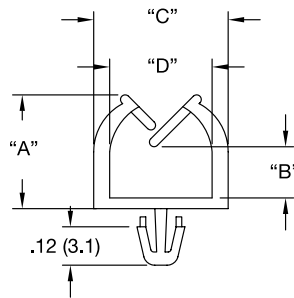
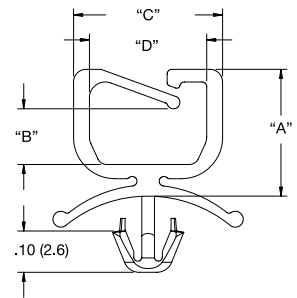


Fig. 3



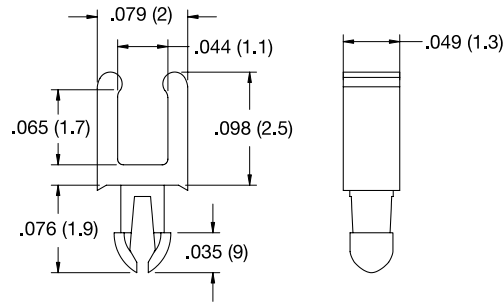
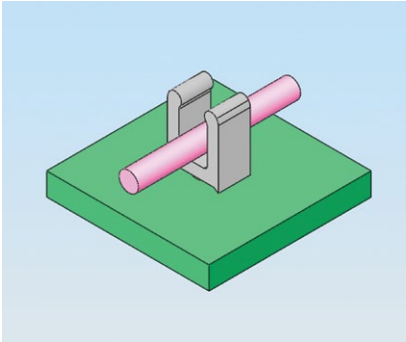
| Standard Pack: 1,000 per bag Color: Natural |                                                                                                            |                     |                           |                 |                           |            |           |            |           |         |     |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------|---------------------------|-----------------|---------------------------|------------|-----------|------------|-----------|---------|-----|
| Part No.                                    | Hole Ø                                                                                                     | Part No             | Hole Ø                    | Panel Thickness | Material                  | "A" Ref.   | "B" Ref.  | "C" Ref.   | "D" Ref.  | Width   | Fig |
| MWSEA1-1-01                                 | .118 (3)                                                                                                   | MWSEA2-1-01         | .138 (3.5)                | .063 (1.6)      | UL94 V2 Nylon 6/6, RMS-01 | .29 (7.3)  | .12 (3)   | .36 (9.1)  | .26 (6.6) | .16 (4) | 1   |
| MWSEA1-1-19                                 |                                                                                                            | MWSEA2-1-19         |                           |                 | UL94 V0 Nylon 6/6, RMS-19 |            |           |            |           |         |     |
| MWSEA1-1-1-01                               |                                                                                                            | MWSEA2-1-1-01       |                           | .093 (2.4)      | UL94 V2 Nylon 6/6, RMS-01 |            |           |            |           |         |     |
| MWSEA1-1-1-19                               |                                                                                                            | MWSEA2-1-1-19       |                           |                 | UL94 V0 Nylon 6/6, RMS-19 |            |           |            |           |         |     |
| MWSEA1-2-01                                 |                                                                                                            | MWSEA2-2-01         |                           | .063 (1.6)      | UL94 V2 Nylon 6/6, RMS-01 | .36 (9.1)  | .16 (3.9) | .42 (10.8) | .32 (8.1) |         |     |
| MWSEA1-2-19                                 |                                                                                                            | MWSEA2-2-19         |                           |                 | UL94 V0 Nylon 6/6, RMS-19 |            |           |            |           |         |     |
| MWSEA1-1-2-01                               |                                                                                                            | MWSEA2-1-2-01       |                           | .093 (2.4)      | UL94 V2 Nylon 6/6, RMS-01 |            |           |            |           |         |     |
| MWSEA1-1-2-19                               |                                                                                                            | MWSEA2-1-2-19       |                           |                 | UL94 V0 Nylon 6/6, RMS-19 |            |           |            |           |         |     |
| MWSEA1-3-01                                 |                                                                                                            | MWSEA2-3-01         |                           | .063 (1.6)      | UL94 V2 Nylon 6/6, RMS-01 | .44 (11.2) | .24 (6)   | .47 (12)   | .36 (9.1) |         |     |
| MWSEA1-3-19                                 |                                                                                                            | MWSEA2-3-19         |                           |                 | UL94 V0 Nylon 6/6, RMS-19 |            |           |            |           |         |     |
| MWSEA1-1-3-01                               |                                                                                                            | MWSEA2-1-3-01       |                           | .093 (2.4)      | UL94 V2 Nylon 6/6, RMS-01 |            |           |            |           |         |     |
| MWSEA1-1-3-19                               |                                                                                                            | MWSEA2-1-3-19       |                           |                 | UL94 V0 Nylon 6/6, RMS-19 |            |           |            |           |         |     |
| MWSEA1-4-01                                 |                                                                                                            | MWSEA2-4-01         |                           | .063 (1.6)      | UL94 V2 Nylon 6/6, RMS-01 | .51 (13)   | .30 (7.7) |            |           |         |     |
| MWSEA1-4-19                                 |                                                                                                            | MWSEA2-4-19         |                           |                 | UL94 V0 Nylon 6/6, RMS-19 |            |           |            |           |         |     |
| MWSEA1-1-4-01                               |                                                                                                            | MWSEA2-1-4-01       |                           | .093 (2.4)      | UL94 V2 Nylon 6/6, RMS-01 |            |           |            |           |         |     |
| MWSEA1-1-4-19                               |                                                                                                            | MWSEA2-1-4-19       |                           |                 | UL94 V0 Nylon 6/6, RMS-19 |            |           |            |           |         |     |
| -                                           | MWSEA3-2-01                                                                                                | .063 (1.6)          | UL94 V2 Nylon 6/6, RMS-01 | .36 (9.1)       | .16 (3.9)                 | .42 (10.8) | .32 (8.1) | 2          |           |         |     |
| -                                           | MWSEA3-2-19                                                                                                |                     | UL94 V0 Nylon 6/6, RMS-19 |                 |                           |            |           |            |           |         |     |
| -                                           | <div> MWSEA4-1-01</div> | .024-.063 (0.6-1.6) | UL94 V2 Nylon 6/6, RMS-01 | .32 (8)         | .14 (3.5)                 | .37 (9.4)  | .29 (7.4) | 3          |           |         |     |
|                                             | MWSEA4-1-19                                                                                                |                     | UL94 V0 Nylon 6/6, RMS-19 |                 |                           |            |           |            |           |         |     |



Richco®

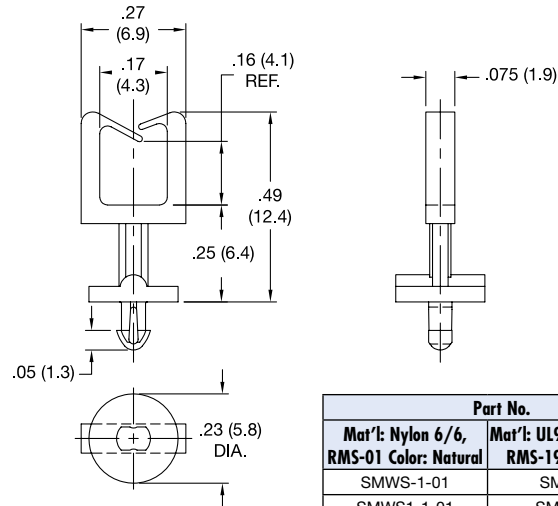
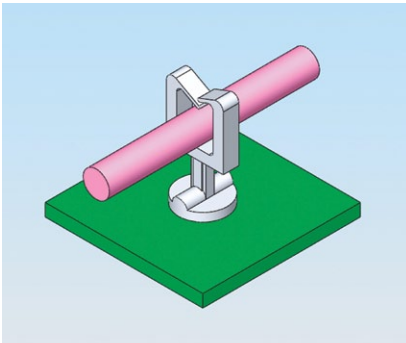


**PWS-1-104**  
Pico Wire Saddle



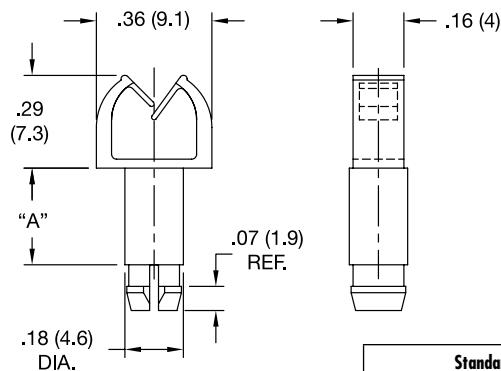
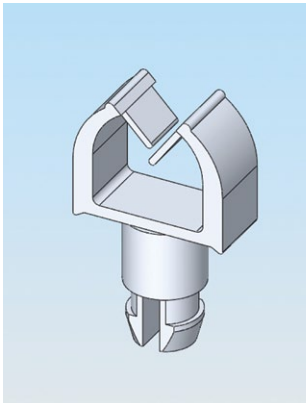
| Material: UL94 V0 Nylon 6/6, RMS-104 |                    |                 |
|--------------------------------------|--------------------|-----------------|
| Color: Natural                       |                    |                 |
| Standard Pack: 1,000 per bag         |                    |                 |
| Part No.                             | Mounting Hole Dia. | Panel Thickness |
| PWS-1-104                            | .040 (1)           | .040 (1)        |

**SMWS**  
Standoff Micro Wire Saddle



| Part No.                                |                                                 | Standard Pack: 1,000 per bag |                 |
|-----------------------------------------|-------------------------------------------------|------------------------------|-----------------|
| Mat'l: Nylon 6/6, RMS-01 Color: Natural | Mat'l: UL94 V0 Nylon 6/6, RMS-19 Color: Natural | Hole Dia.                    | Panel Thickness |
| SMWS-1-01                               | SMWS-1-19                                       | .070 ± .002<br>(1.78 ± 0.05) | .062 (1.57)     |
| SMWS1-1-01                              | SMWS1-1-19                                      |                              | .093 (2.36)     |

**MWSELF**  
Stand-Off Micro Wire Saddle



| Standard Pack: 1,000 per bag     |                                  | Color: Natural |                |                 |
|----------------------------------|----------------------------------|----------------|----------------|-----------------|
| Part No                          |                                  | "A"            | Hole Dia.      | Panel Thickness |
| Mat'l: UL94 V2 Nylon 6/6, RMS-01 | Mat'l: UL94 V0 Nylon 6/6, RMS-19 |                |                |                 |
| MWSELF-1-4.1-01                  | MWSELF-1-4.1-19                  | .16 (4.1)      | .150<br>(3.80) | .063 (1.6)      |
| MWSELF-1-7.7-01                  | MWSELF-1-7.7-19                  | .30 (7.7)      |                |                 |
| MWSELF-2-4.1-01                  | MWSELF-2-4.1-19                  | .16 (4.1)      |                | .079 (2)        |
| MWSELF-2-7.7-01                  | MWSELF-2-7.7-19                  | .30 (7.7)      |                |                 |

## MWSEB

### Micro Wire Saddle on Adhesive Base

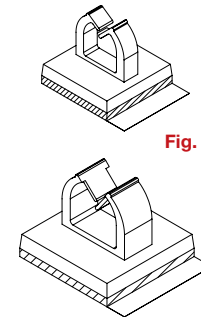
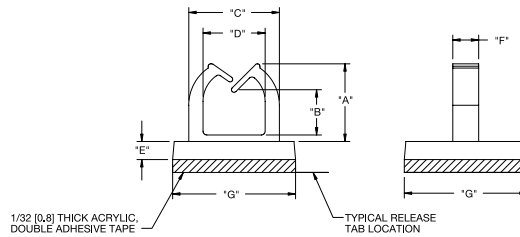
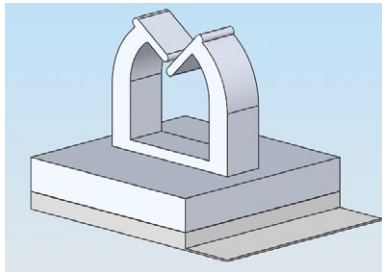


Fig. 1

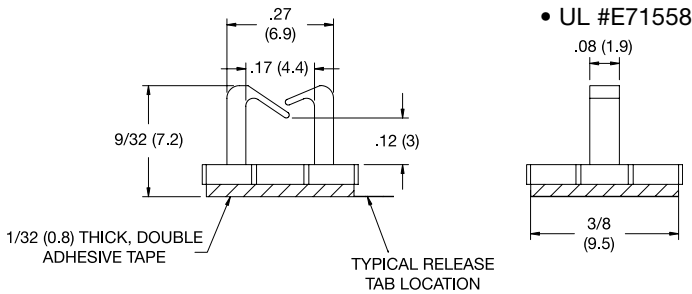
Fig. 2

**UL #E71558**

| Part No.                    |                                     | Color: Natural    Standard Pack: 1,000 per bag |           |            |           |           |          |            |                   |     |
|-----------------------------|-------------------------------------|------------------------------------------------|-----------|------------|-----------|-----------|----------|------------|-------------------|-----|
| Material: Nylon 6/6, RMS-01 | Material: UL94 V0 Nylon 6/6, RMS-19 | "A" Ref.                                       | "B" Ref.  | "C" Ref.   | "D" Ref.  | "E" Ref.  | "F" Ref. | "G" Ref.   | Adhesive Material | Fig |
| MWSEB-1-01A-RT              | MWSEB-1-19A-RT                      | .16 (4)                                        | .05 (1.3) | .28 (7)    | .19 (4.8) | .06 (1.6) | .08 (2)  | .37 (9.5)  | RMS-15            | 1   |
| MWSEB-2-01A-RT              | MWSEB-2-19A-RT                      | .24 (6)                                        | .13 (3.3) |            |           |           |          |            |                   | 2   |
| MWSEB-3-01A-RT              | MWSEB-3-19A-RT                      | .29 (7.3)                                      | .12 (3)   | .35 (9)    | .26 (6.6) |           |          |            |                   |     |
| MWSEB-4-01A-RT              | MWSEB-4-19A-RT                      | .36 (9.2)                                      | .19 (4.8) | .43 (10.8) | .32 (8)   | .08 (2)   | .16 (4)  | .50 (12.7) |                   |     |
| MWSEB-5-01A-RT              | MWSEB-5-19A-RT                      | .44 (11.2)                                     | .23 (5.8) | .47 (11.9) | .36 (9.1) |           |          |            |                   |     |
| MWSEB-6-01A-RT              | MWSEB-6-19A-RT                      | .51 (13)                                       | .33 (8.4) |            |           |           |          |            |                   |     |

## MWSB

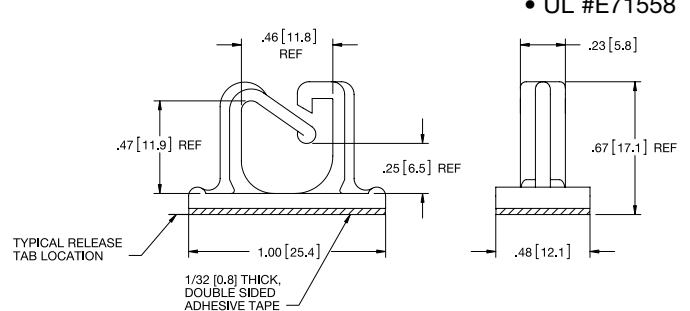
### Micro Wire Saddle on Adhesive Base



**UL #E71558**

## WSB-2-01A-RT

### Wire Saddle on Adhesive Base



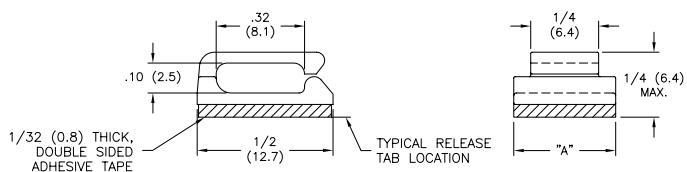
**UL #E71558**

| Adhesive Material: Acrylic, RMS-15      |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Standard Pack: 1,000 per bag            |                                                 |
| Part No.                                |                                                 |
| Mat'l: Nylon 6/6, RMS-01 Color: Natural | Mat'l: UL94 V0 Nylon 6/6, RMS-19 Color: Natural |
| MWSB-1-01A-RT                           | MWSB-1-19A-RT                                   |

| Material: Nylon 6/6, RMS-01* • Adhesive Back: RMS-15 Color: Natural                  |  |
|--------------------------------------------------------------------------------------|--|
| Standard Pack: 1,000 per bag                                                         |  |
| *UL94 V0 Material, RMS-19 available by special order. To order, replace -01 with -19 |  |

## MWSSEB/MWSSEBE

### Side Entry Micro Wire Saddle on Adhesive Base

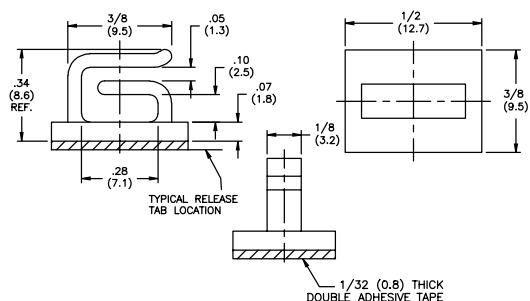


**UL #E71558**

| Color: Natural Standard Pack: 1,000 per bag |                                     | "A"        | Adhesive Material |
|---------------------------------------------|-------------------------------------|------------|-------------------|
| Material: Nylon 6/6, RMS-01                 | Material: UL94 V0 Nylon 6/6, RMS-19 |            |                   |
| MWSSEB-1-01A-RT                             | MWSSEB-1-19A-RT                     | 3/8 (9.5)  | RMS-15            |
| MWSSEBE-1-01A-RT                            | MWSSEBE-1-19A-RT                    | 1/2 (12.7) |                   |

## MOFNSB

### Mini Optical Fiber Network Saddle on Adhesive Base



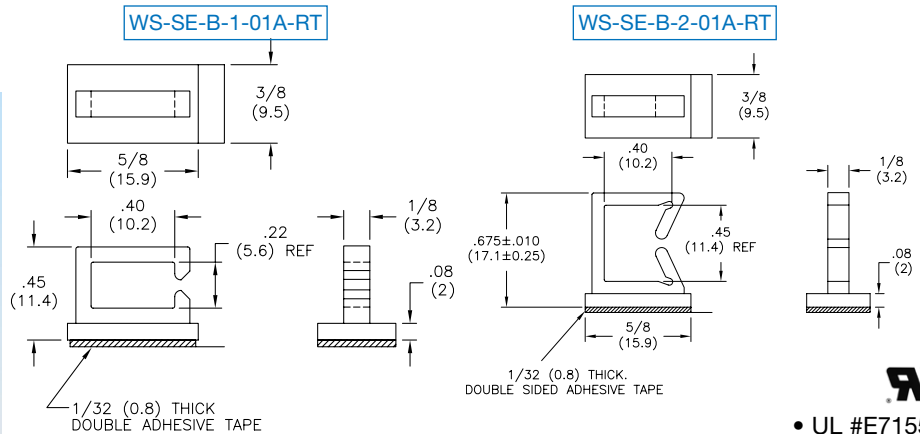
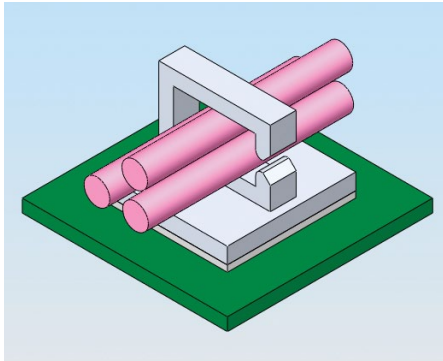
| Adhesive Back: RMS-15                   |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Standard Pack: 1,000 per bag            |                                                 |
| Part No.                                |                                                 |
| Mat'l: Nylon 6/6, RMS-01 Color: Natural | Mat'l: UL94 V0 Nylon 6/6, RMS-19 Color: Natural |
| MOFNSB-2-01A-RT                         | MOFNSB-2-19A-RT                                 |



# CABLE MANAGEMENT

## WS-SE-B

Side Entry Wire Saddle  
on Adhesive Base

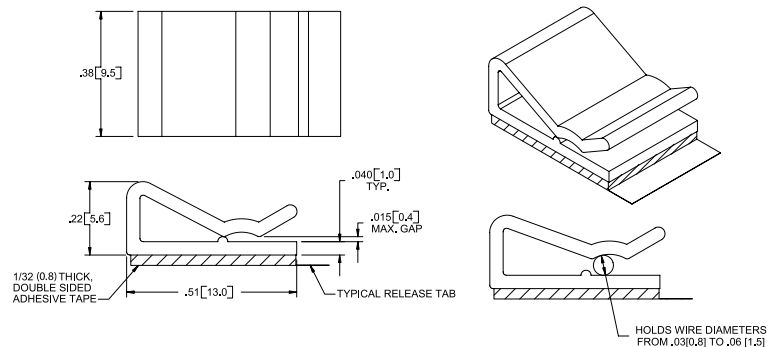
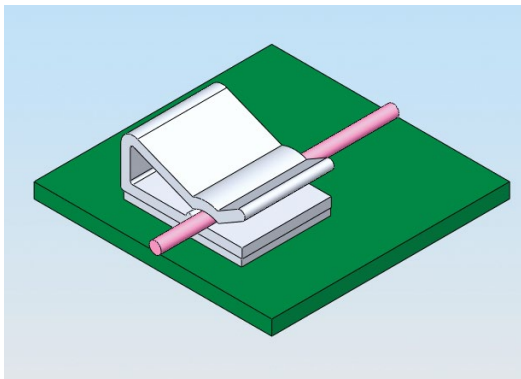


**UL #E71558**

| Material: UL94 V2 Nylon 6/6, RMS-01*                                               |                 |
|------------------------------------------------------------------------------------|-----------------|
| Standard Pack: 1,000 per bag                                                       | Color: Natural  |
| Part No.                                                                           | Adhesive        |
| WS-SE-B-1-01A-RT                                                                   | Acrylic, RMS-15 |
| WS-SE-B-2-01A-RT                                                                   |                 |
| *UL94 V0 nylon, RMS-19 available by special order. To order, replace -01 with -19. |                 |

## SWC-0

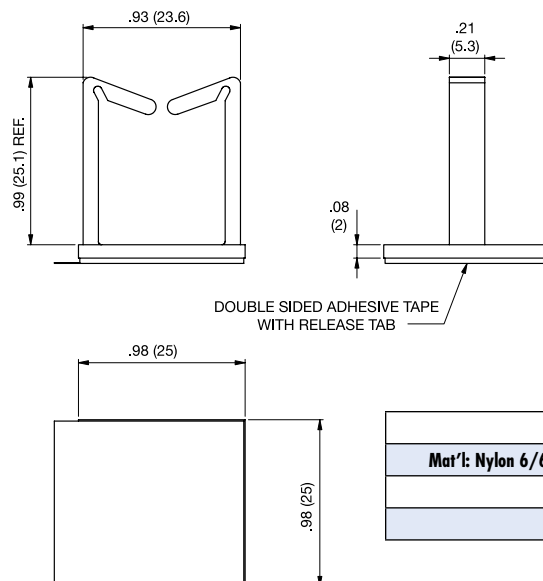
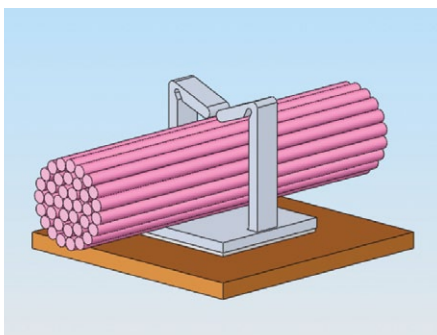
Single Wire Clip on Adhesive Base



|                                                                     |
|---------------------------------------------------------------------|
| Mat'l: UL94 V1 PPE/PS, RMS-05; Adhesive back, RMS-15 • Color: White |
| Standard Pack: 1,000 per bag                                        |

## WWSB-3-148A-RT

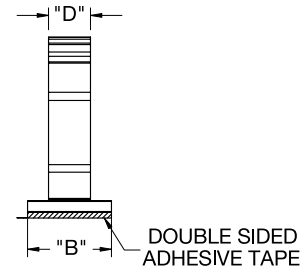
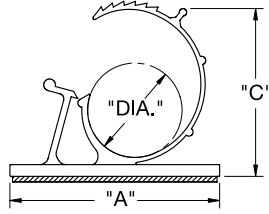
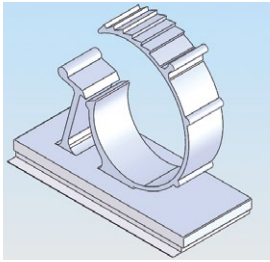
Wire Saddle on Adhesive Base



|                                                         |
|---------------------------------------------------------|
| <b>WWSB-3-148A-RT</b>                                   |
| Mat'l: Nylon 6/6, RMS-148 Double Adhesive Back, RMS-324 |
| Color: Natural                                          |
| Standard Pack: 500 per bag                              |

## AKKL

### Adjustable Kwik Klip



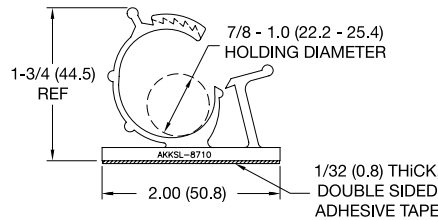
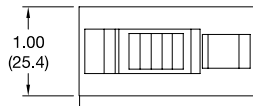
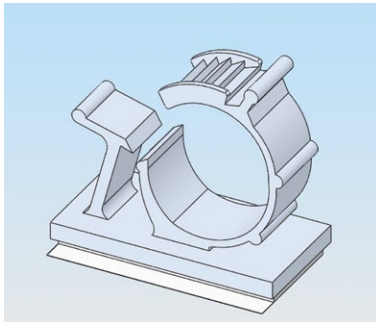
- UL #E71558  
Does not apply to  
AKKL-10112 size

| Color: Natural                                     |                                    | Standard Pack: 100 per bag |             |             |             |            |                                   |
|----------------------------------------------------|------------------------------------|----------------------------|-------------|-------------|-------------|------------|-----------------------------------|
| Part No.                                           |                                    | Bundle Dia. Range Ref.     | “A”         | “B”         | “C” Ref.    | “D”        | Adhesive                          |
| Mat’l UL94 V2 Nylon<br>6/6, RMS-01                 | Mat’l UL94 V0 Nylon<br>6/6, RMS-19 |                            |             |             |             |            |                                   |
| AKKL-2140A-RT                                      | AKKL-2140A-RT-19                   | .215-258 (5.5-6.5)         | .85 (21.6)  | .650 (16.5) | .708 (18)   | .39 (10)   | 1/32 (0.8) Thick Acrylic, RMS-136 |
| AKKL-3140A-RT                                      | AKKL-3140A-RT-19                   | .312-.406 (7.9-10.3)       | 1.0 (25.4)  | .750 (19.1) | .866 (22)   | .40 (10.2) | 1/32 (0.8) Thick Acrylic, RMS-15  |
| AKKL-4756A-RT                                      | AKKL-4756A-RT-19                   | .469-.562 (11.9-14.3)      | 1.25 (31.8) |             | 1.09 (27.7) |            |                                   |
| AKKL-5775A-RT                                      | AKKL-5775A-RT-19                   | .578-.750 (14.7-19.1)      | 1.50 (38.1) |             | 1.25 (31.8) |            |                                   |
| AKKL-8710A-RT                                      | AKKL-8710A-RT-19                   | .875-1.00 (22.2-25.4)      | 2.0 (50.8)  | 1.00 (25.4) | 1.75 (44.5) | .50 (12.7) | 1/16 (1.6) Thick Acrylic, RMS-15  |
| AKKL-10112A-RT                                     | AKKL-10112A-RT-19                  | 1.00-1.25 (25.4-31.7)      | 2.5 (63.5)  |             | 2.00 (50.8) |            |                                   |
| Parts available without adhesive by special order. |                                    |                            |             |             |             |            |                                   |

Parts available without adhesive by special order.

## AKKSL-8710A-RT

### Adjustable Side Locking Clip on Base



|                                                                                                    |  |
|----------------------------------------------------------------------------------------------------|--|
| Material: UL94 V2 Nylon 6/6, RMS-01*; Adhesive: RMS-15                                             |  |
| Color: Natural                                                                                     |  |
| Standard Pack: 100 per bag                                                                         |  |
| Part No.                                                                                           |  |
| AKKSL-8710A-RT                                                                                     |  |
| *UL94 V0 nylon, RMS-19 available by special order.<br>To order, add -19 to the end of the part no. |  |
| Parts are available without adhesive by special order.                                             |  |

## KKL

### L Style Locking Clamp on Adhesive Base

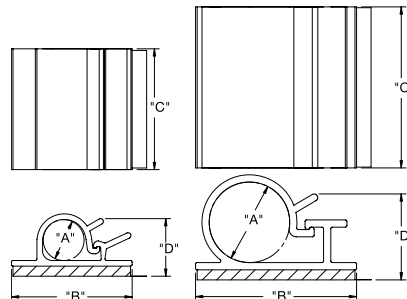
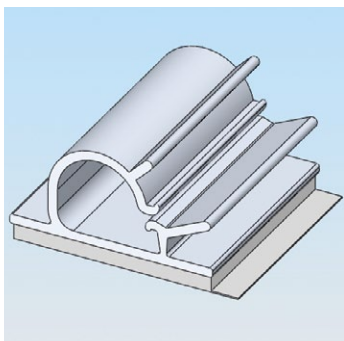


Fig. 1

Fig. 2

| Material: UL94 V0 PVC, RMS-04*; Adhesive: 1/16 (1.6) thick, RMS-15 |                      |            |            |                           |      |               |
|--------------------------------------------------------------------|----------------------|------------|------------|---------------------------|------|---------------|
| Color: Grey                                                        |                      |            |            |                           |      |               |
| Part No.                                                           | Holding Capacity "A" | "B"        | "C"        | "D" at Max. Capacity Ref. | Fig. | Standard Pack |
| KKL-4-RT                                                           | 1/4 (6.4)            | 3/4 (19.7) | 3/4 (19.7) | 3/8 (9.5)                 | 1    | 500           |
| KKL-8-RT                                                           | 1/2 (12.7)           | 1 (25.4)   | 1 (25.4)   | 27/32 (21.4)              | 2    | 100           |
| KKL-12-RT                                                          | 3/4 (19.1)           |            |            | 1 (25.4)                  |      |               |

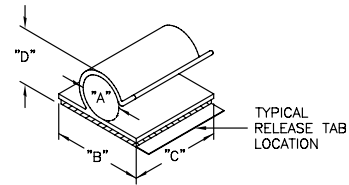
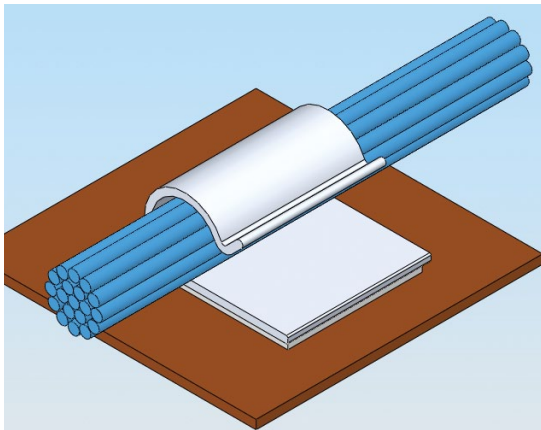
\*Available in clear PVC, RMS-32 by special order.

Custom lengths available by special order.

# CABLE MANAGEMENT

## KKC

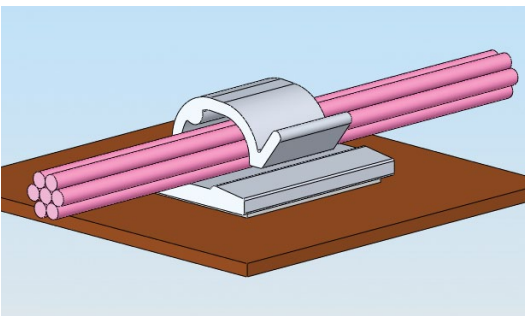
### C Style Clamp on Adhesive Base



| Material: PVC, <b>RMS-04*</b> • Adhesive Back, 1/16 (1.6) thick, RMS-15 Color: Grey |                         |                    |                   |                             |               |
|-------------------------------------------------------------------------------------|-------------------------|--------------------|-------------------|-----------------------------|---------------|
| Part No.                                                                            | Holding Capacity<br>"A" | "B"<br>±.015 (0.4) | "C"<br>±.02 (0.5) | "D" At Max<br>Capacity Ref. | Standard Pack |
| KKC-2-RT                                                                            | 1/8 (3.2)               | 3/4 (19.1)         | 3/4 (19.1)        | .31 (7.9)                   | 500           |
| KKC-3-RT                                                                            | 3/16 (4.8)              |                    |                   | .33 (8.4)                   |               |
| KKC-4-RT                                                                            | 1/4 (6.4)               |                    |                   | .42 (10.7)                  |               |
| KKC-5-RT                                                                            | 5/16 (7.9)              |                    |                   | .48 (12.2)                  |               |
| KKC-6-RT                                                                            | 3/8 (9.5)               |                    |                   | .60 (15.2)                  |               |
| KKC-8-RT                                                                            | 1/2 (12.7)              | 1 (25.4)           | 1 (25.4)          | .69 (17.5)                  | 100           |
| KKC-12-RT                                                                           | 3/4 (19.1)              |                    |                   | .94 (23.9)                  |               |
| *Also available in clear PVC, RMS-32 by special order.                              |                         |                    |                   |                             |               |
| Custom lengths available by special order.                                          |                         |                    |                   |                             |               |

## WCK/MWCK

### Wire Cord Klip



| Mat'l: UL94 V2 Nylon 6/6, RMS-01* Color: Natural                                                |  |     |                   |
|-------------------------------------------------------------------------------------------------|--|-----|-------------------|
| Standard Pack: 1,000 per bag                                                                    |  |     |                   |
| Part No.                                                                                        |  | Fig | Adhesive Material |
| WCK-180-01A-RT                                                                                  |  | 1   | RMS-15            |
| WCK-720-01A-RT                                                                                  |  | 2   |                   |
| WCK-460-01A-RT                                                                                  |  | 3   |                   |
| MWCK-460-01A4-RT                                                                                |  | 4   | RMS-324           |
| WCK-280-01A4-RT                                                                                 |  | 5   |                   |
| *Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19. |  |     |                   |
| Available without adhesive by special order.                                                    |  |     |                   |

Fig. 2

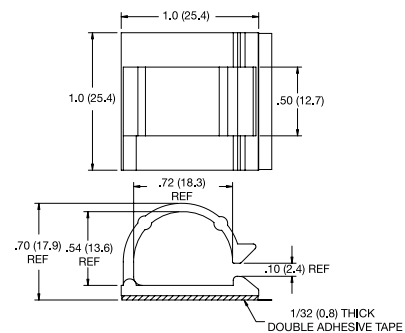


Fig. 4

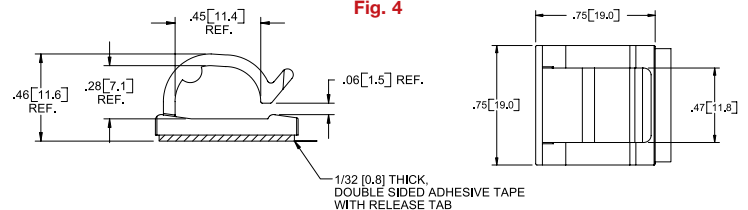
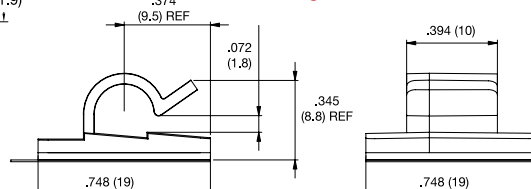


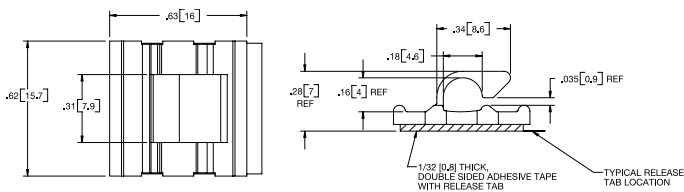
Fig. 5



To Hold .22 - .26 (5.5-6.5) Dia. Cable

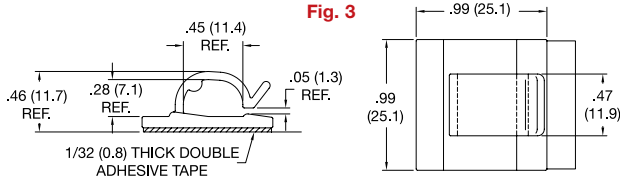
• UL #E71558

Fig. 1



• UL #E71558

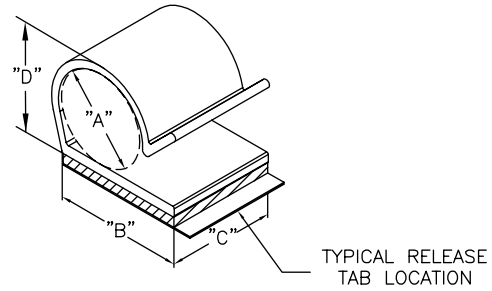
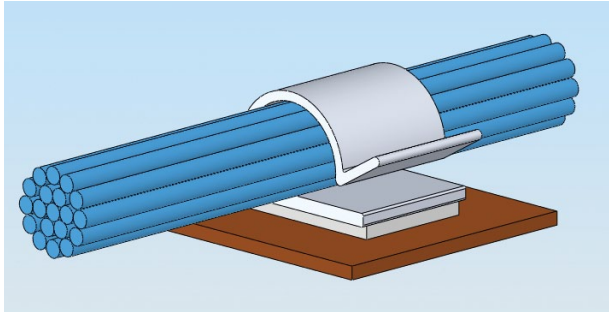
Fig. 3





## KKR-5A1-RT

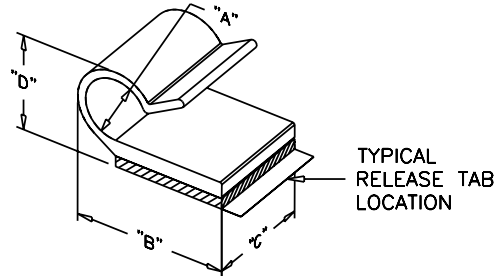
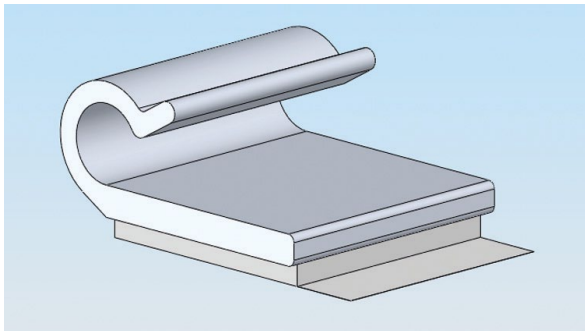
### R Style Clamp on Adhesive Base



| Material: Rigid PVC, RMS-04* • Color: Grey             |                         |                 |                 |                              |                                                |
|--------------------------------------------------------|-------------------------|-----------------|-----------------|------------------------------|------------------------------------------------|
| Standard Pack: 500 per bag                             |                         |                 |                 |                              |                                                |
| Part No.                                               | Holding Capacity<br>"A" | "B" ±.020 (0.5) | "C" ±.020 (0.5) | "D" at Max.<br>Capacity Ref. | Double Sided Adhesive<br>Tape 1/16 (1.6) thick |
| KKR-5A1-RT                                             | .521 (13.2)             | .750 (19.1)     | .625 (15.9)     | .680 (17.3)                  | Rubber, RMS-102                                |
| *Also available in clear PVC, RMS-32 by special order. |                         |                 |                 |                              |                                                |
| Custom lengths available by special order.             |                         |                 |                 |                              |                                                |

## MKKJ

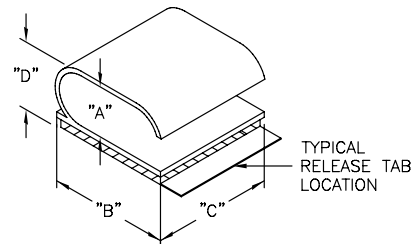
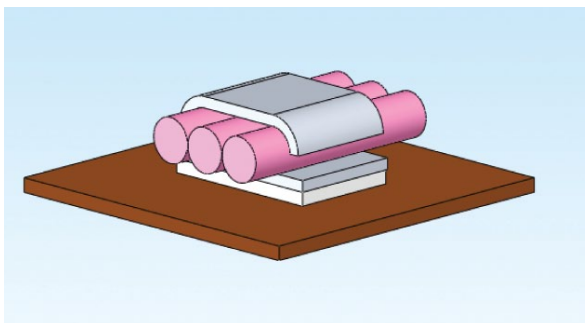
### Mini J Style Clamp on Adhesive Base



| Material: Rigid PVC, RMS-32 • Adhesive Back, 1/32 (0.8) thick, RMS-15 Color: Clear |                         |                 |                |                             |  |
|------------------------------------------------------------------------------------|-------------------------|-----------------|----------------|-----------------------------|--|
| Standard Pack: 1,000 per bag                                                       |                         |                 |                |                             |  |
| Part No.                                                                           | Holding Capacity<br>"A" | "B" ±.015 (0.4) | "C" ±.02 (0.5) | "D" At Max<br>Capacity Ref. |  |
| MKKJ-2-RT                                                                          | 1/8 (3.2)               | 7/16 (11.1)     | 3/8 (9.5)      | 15/64 (6)                   |  |
| MKKJ-3-RT                                                                          | 3/16 (4.8)              | 5/8 (15.9)      | 7/16 (11.1)    | 21/64 (8.3)                 |  |
| MKKJ-4-RT                                                                          | 1/4 (6.4)               | 21/32 (16.7)    | 1/2 (12.7)     | 13/32 (10.3)                |  |
| MKKJ-5-RT                                                                          | 5/16 (7.9)              | 13/16 (20.6)    | 9/16 (14.3)    | 31/64 (12.3)                |  |
| MKKJ-6-RT                                                                          | 3/8 (9.5)               | 7/8 (22.2)      | 5/8 (15.9)     | 9/16 (14.3)                 |  |
| Custom lengths available by special order.                                         |                         |                 |                |                             |  |

## KKF

### F Style Clamp on Adhesive Base



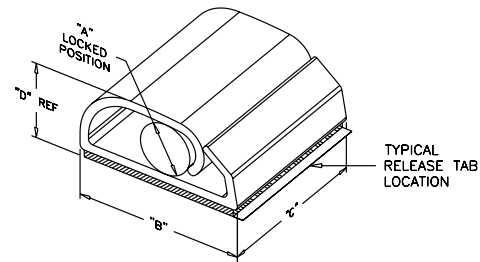
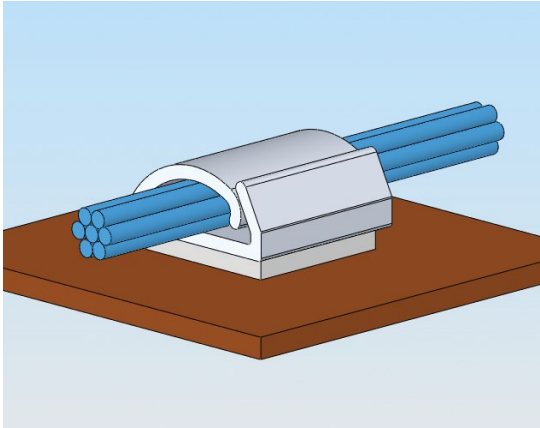
| Material: PVC, RMS-04* • Adhesive Back, 1/16 (1.6) thick, RMS-15 Color: Grey |                              |                 |                |                             |  |
|------------------------------------------------------------------------------|------------------------------|-----------------|----------------|-----------------------------|--|
| Standard Pack: 100 per bag                                                   |                              |                 |                |                             |  |
| Part No.                                                                     | Holding Capacity<br>"A"      | "B" ±.030 (0.8) | "C" ±.02 (0.5) | "D" At Max<br>Capacity Ref. |  |
| KKF-10X4-RT                                                                  | 9/16 x 13/64<br>(14.3 x 5.2) | 3/4 (19.1)      | 3/4 (19.1)     | 23/64 (9.1)                 |  |
| *Also available in clear PVC, RMS-32 by special order.                       |                              |                 |                |                             |  |
| Custom lengths available by special order.                                   |                              |                 |                |                             |  |



# CABLE MANAGEMENT

## KKDL

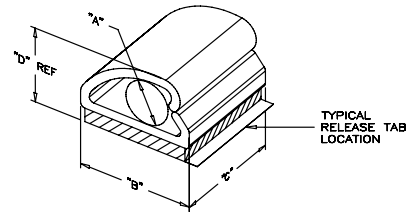
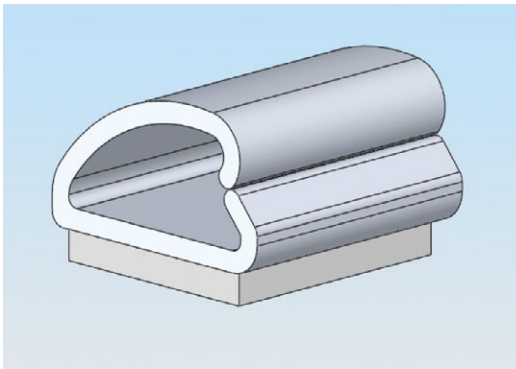
### DL Style Clamp on Adhesive Base



| Material: PVC, RMS-04* • Adhesive Back, 1/16 (1.6) thick, RMS-15 Color: Grey |                      |                 |                |                          |                       |
|------------------------------------------------------------------------------|----------------------|-----------------|----------------|--------------------------|-----------------------|
| Part No.                                                                     | Holding Capacity "A" | "B" ±.015 (0.4) | "C" ±.02 (0.5) | "D" At Max Capacity Ref. | Standard Pack per bag |
| KKDL-4-RT                                                                    | 1/8 (3.2)            | 1/2 (12.7)      | 1/2 (12.7)     | .28 (7.1)                | 500                   |
| KKDL-8-RT                                                                    | 7/32 (5.6)           | 3/4 (19.1)      | 3/4 (19.1)     | .43 (10.9)               | 100                   |
| *Also available in clear PVC, RMS-32 by special order.                       |                      |                 |                |                          |                       |
| Custom lengths available by special order.                                   |                      |                 |                |                          |                       |

## KKD

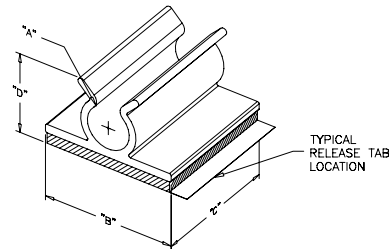
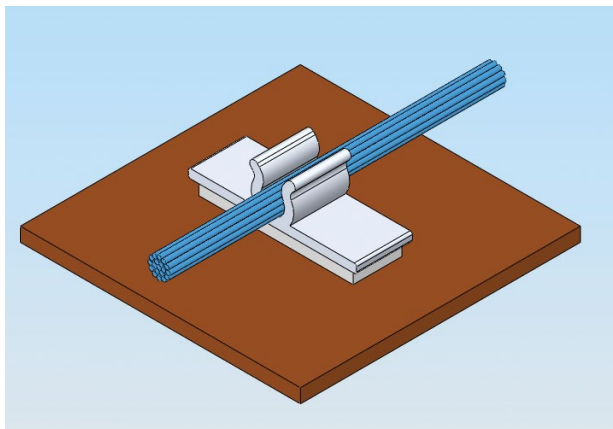
### D Style Clamp on Adhesive Base



| Material: PVC, RMS-04* • Adhesive Back, 1/16 (1.6) thick, RMS-15 Color: Grey |                      |                |                |                          |               |
|------------------------------------------------------------------------------|----------------------|----------------|----------------|--------------------------|---------------|
| Part No.                                                                     | Holding Capacity "A" | "B" ±.02 (0.5) | "C" ±.02 (0.5) | "D" At Max Capacity Ref. | Standard Pack |
| KKD-4-RT                                                                     | 1/4 (6.4)            | 1/2 (12.7)     | 1/2 (12.7)     | .40 (10.2)               | 500           |
| KKD-8-RT                                                                     | 1/2 (12.7)           | 3/4 (19.1)     | 3/4 (19.1)     | .73 (18.5)               | 100           |
| KKD-12-RT                                                                    | 3/4 (19.1)           | 1 - 1/8 (28.6) | 1 (25.4)       | 1.02 (25.9)              |               |
| KKD-16-RT                                                                    | 1 (25.4)             | 1 - 1/2 (38.1) | 1 - 1/4 (31.8) | 1.30 (33)                |               |
| *Also available in clear PVC, RMS-32 by special order.                       |                      |                |                |                          |               |
| Custom lengths available by special order.                                   |                      |                |                |                          |               |

## KKU

### U Style Clamp on Adhesive Base



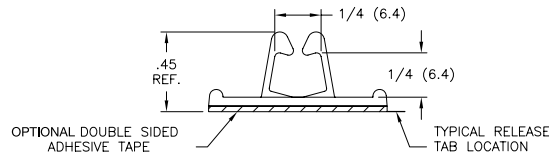
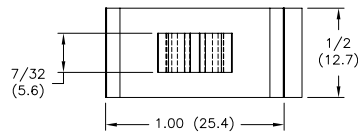
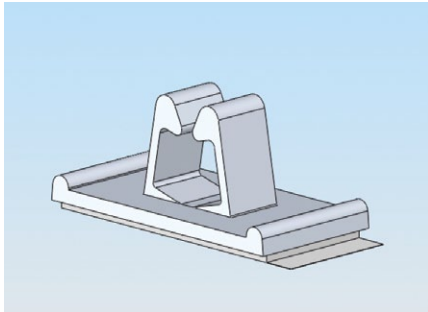
| Material: PVC, RMS-04* • Adhesive Back, 1/16 (1.6) thick, RMS-15 Color: Grey |                      |                    |                   |                          |               |
|------------------------------------------------------------------------------|----------------------|--------------------|-------------------|--------------------------|---------------|
| Part No.                                                                     | Holding Capacity "A" | "B"<br>±.015 (0.4) | "C"<br>±.02 (0.5) | "D" At Max Capacity Ref. | Standard Pack |
| KKU-2-RT                                                                     | 1/8 (3.2)            | 3/4 (19.1)         | 3/4 (19.1)        | 9/32 (7.1)               | 500           |
| KKU-4-RT                                                                     | 1/4 (6.4)            |                    |                   | 15/32 (11.9)             |               |
| KKU-6-RT                                                                     | 3/8 (9.5)            |                    |                   | 19/32 (15.1)             |               |
| KKU-8-RT                                                                     | 1/2 (12.7)           | 1 (25.4)           | 1 (25.4)          | 11/16 (17.5)             | 100           |
| KKU-9-RT                                                                     | 9/16 (14.3)          |                    |                   | 3/4 (19.1)               |               |
| KKU-12-RT                                                                    | 3/4 (19.1)           |                    |                   | 29/32 (23)               |               |
| *Also available in clear PVC, RMS-32 by special order.                       |                      |                    |                   |                          |               |
| Custom lengths available by special order.                                   |                      |                    |                   |                          |               |

## WCB-250-01A-RT

Cord Clip on Base



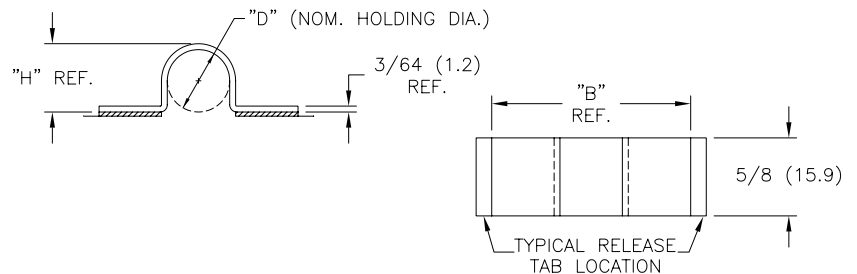
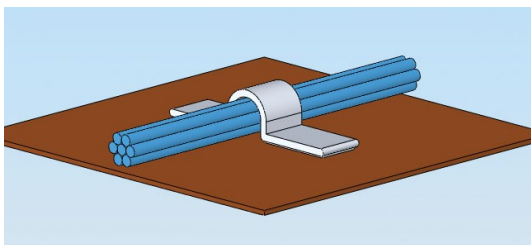
• UL #E71558



| Part No.                                                                              | Base Material      | Adhesive Material | Color   | Standard Pack |
|---------------------------------------------------------------------------------------|--------------------|-------------------|---------|---------------|
| WCB-250-01A-RT                                                                        | Nylon 6/6, RMS-01* | Acrylic, RMS-15   | Natural | 1,000         |
| *Available in UL94 V0 material by special order only. To order, replace -01 with -19. |                    |                   |         |               |
| Parts available without adhesive by special order                                     |                    |                   |         |               |

## UC

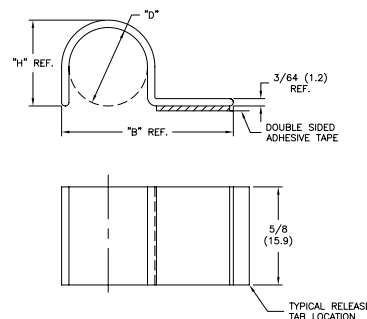
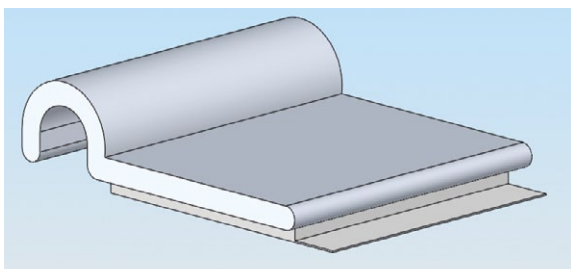
U-Clip with Adhesive Base



| Material: PVC, RMS-04* • Adhesive Back 1/32 (0.8): RMS-15 • Color: Black |                              |                  |             |
|--------------------------------------------------------------------------|------------------------------|------------------|-------------|
| Part No.                                                                 | Standard Pack: 1,000 per bag |                  |             |
|                                                                          | "D" Bundle Dia.              | "B"              | "H"         |
| UC-2-RT                                                                  | 1/8 (3.2)                    | 1 - 7/32 (30.9)  | 11/64 (4.4) |
| UC-4-RT                                                                  | 1/4 (6.4)                    | 1 - 11/32 (34.1) | 19/64 (7.5) |
| *Also available in clear PVC, RMS-32 by special order.                   |                              |                  |             |
| Custom lengths available by special order.                               |                              |                  |             |

## HUC

Half U-Clip with Adhesive Base

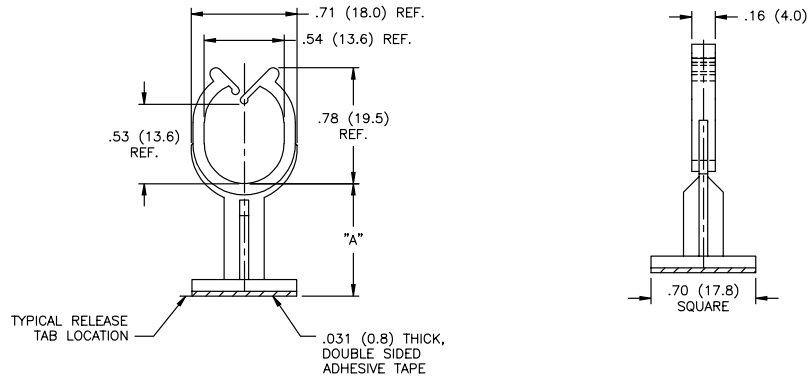
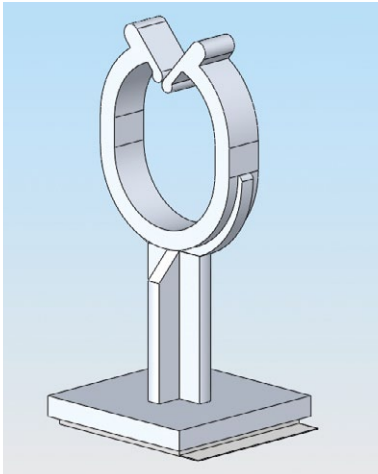


| Material: PVC, RMS-04* • Adhesive Back 1/32 (0.8): RMS-15 • Color: Black |                              |              |             |
|--------------------------------------------------------------------------|------------------------------|--------------|-------------|
| Part No.                                                                 | Standard Pack: 1,000 per bag |              |             |
|                                                                          | "D" Bundle Dia.              | "B"          | "H"         |
| HUC-2-RT                                                                 | 1/8 (3.2)                    | 23/32 (18.3) | 11/64 (4.4) |
| HUC-4-RT                                                                 | 1/4 (6.4)                    | 27/32 (21.4) | 19/64 (7.5) |
| *Also available in clear PVC, RMS-32 by special order.                   |                              |              |             |
| Custom lengths available by special order.                               |                              |              |             |

# CABLE MANAGEMENT

## SHKBS

Stand-Off Harness Clip  
on Adhesive Base

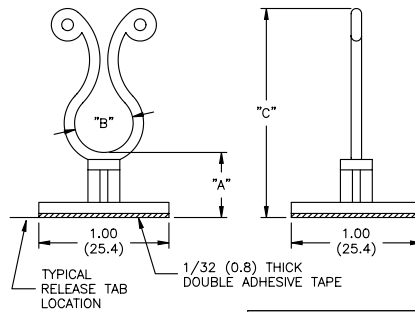
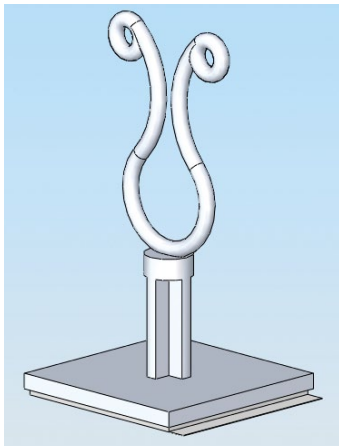


Material: Nylon 6/6, RMS-01\* • Adhesive Back: RMS-15 • Color: Natural

| Part No.                                                                           | Standard Pack: 1,000 per bag |  |
|------------------------------------------------------------------------------------|------------------------------|--|
|                                                                                    | "A"                          |  |
| SHKBS-4-01A-RT                                                                     | .25 (6.4)                    |  |
| SHKBS-8-01A-RT                                                                     | .50 (12.7)                   |  |
| *UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19. |                              |  |

## KLBS

Kurly Lock on Adhesive  
Base with Stand-Off



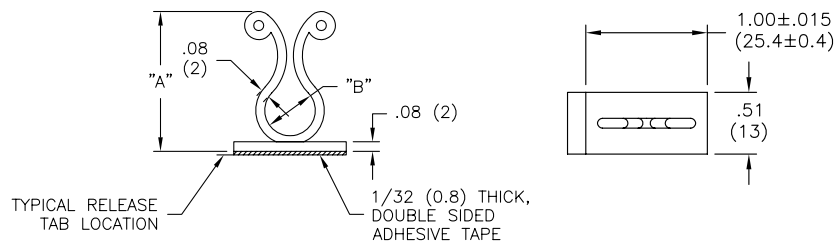
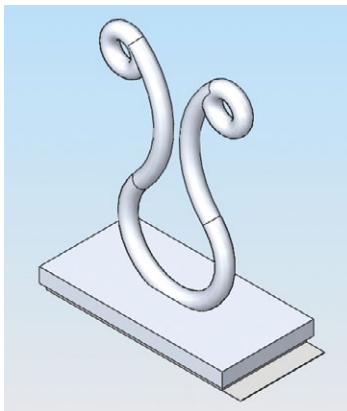
• UL #E71558

Material: Nylon 6/6, RMS-01\* • Adhesive Back: RMS-15 Color: Natural

| Part No.                                                                           | Standard Pack: 1,000 per bag |                  |                           |
|------------------------------------------------------------------------------------|------------------------------|------------------|---------------------------|
|                                                                                    | Height "A"                   | "C" Ref.         | "B" Bundle Dia.           |
| KLBS-350-4-01A-RT                                                                  | 1/4 (6.4)                    | 1 - 9/32 (32.5)  | .30 - .40<br>(7.6 - 10.2) |
| KLBS-350-8-01A-RT                                                                  | 1/2 (12.7)                   | 1 - 17/32 (38.9) |                           |
| KLBS-350-12-01A-RT                                                                 | 3/4 (19.1)                   | 1 - 25/32 (45.2) |                           |
| KLBS-350-16-01A-RT                                                                 | 1 (25.4)                     | 2 - 1/32 (51.6)  |                           |
| *UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19. |                              |                  |                           |

## KLB

Kurly Lock on Adhesive Base



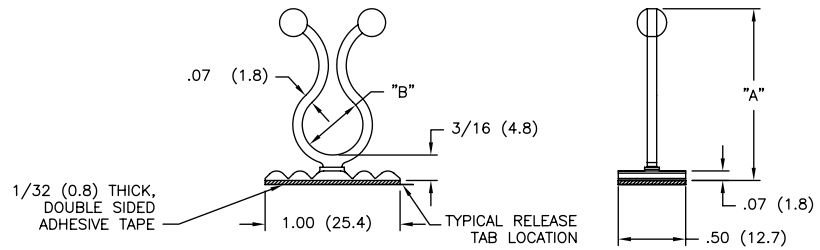
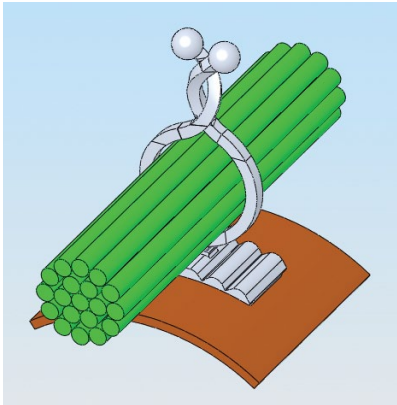
• UL #E71558

Material: Nylon 6/6, RMS-01\* • Adhesive Back: RMS-15 Color: Natural

| Part No.                                                                                        | Standard Pack: 1,000 per bag |                         |
|-------------------------------------------------------------------------------------------------|------------------------------|-------------------------|
|                                                                                                 | "A" Ref                      | "B" Bundle Dia Range    |
| KLB-350A-RT                                                                                     | 1.07 (27.2)                  | .30 - .40 (7.6 - 10.2)  |
| KLB-450A-RT                                                                                     | 1.23 (31.2)                  | .40 - .50 (10.2 - 12.7) |
| KLB-750A-RT                                                                                     | 1.58 (40.1)                  | .70 - .80 (17.8 - 20.3) |
| *UL94 V0 Nylon, RMS-19 available by special order. To order, add -19 to the end of the part no. |                              |                         |
| Available without adhesive by special order.                                                    |                              |                         |

## TLFB

Twist Lock on  
Flexible Adhesive Base

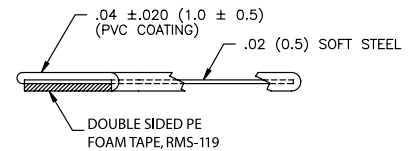
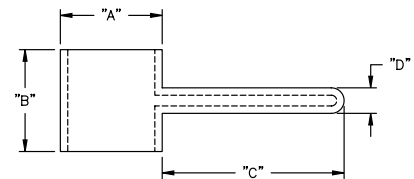
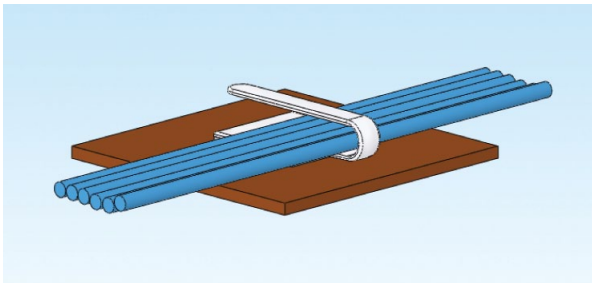


| Mat'l: Nylon 6/6, RMS-01; Adhesive back, RMS-102 • Color: Natural |             |                     |
|-------------------------------------------------------------------|-------------|---------------------|
| Standard Pack: 1,000 per bag                                      |             |                     |
| Part No.                                                          | "A" Ref.    | "B" Bundle Dia.     |
| TLFB-350-01A1-RT                                                  | 1.15 (29.3) | .30-.40 (7.6-10.2)  |
| TLFB-450-01A1-RT                                                  | 1.27 (32.3) | .40-.50 (10.2-12.7) |
| TLFB-750-01A1-RT                                                  | 1.61 (40.9) | .70-.80 (17.8-20.3) |

\*UL94 V0 Nylon, RMS-19 available by special order. To order replace the -01 with -19

## PCC

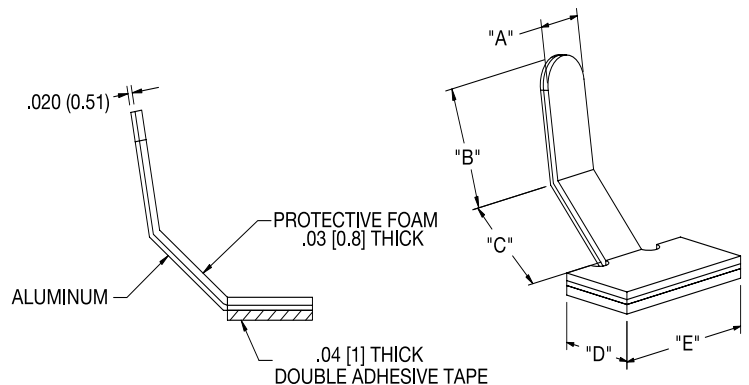
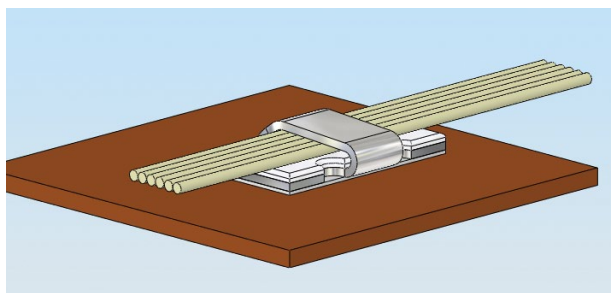
Steel Clamp with Vinyl Coating, Adhesive Base



| Mat'l: Soft Steel, RMS-203; PVC Coating, RMS-118, Adhesive back, RMS-119 |          |          |           |           |               |
|--------------------------------------------------------------------------|----------|----------|-----------|-----------|---------------|
| Color: White                                                             |          |          |           |           |               |
| Part No.                                                                 | "A" Ref. | "B" Ref. | "C" Ref.  | "D" Ref.  | Standard Pack |
| PCC-5                                                                    | .31 (8)  | .31 (8)  | .59 (15)  | .08 (2.1) | 1,000         |
| PCC-9                                                                    | .55 (14) | .55 (14) | .98 (25)  | .14 (3.5) | 500           |
| PCC-12                                                                   | .75 (19) | .75 (19) | 1.58 (40) | .16 (4)   |               |

## PFC

Plastic Coated Aluminum Clamp,  
Foam Coated, Adhesive Base

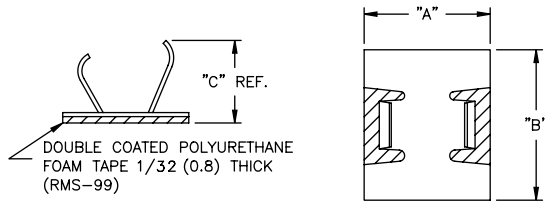


| Material: Aluminum, RMS-194; Protective Foam, RMS-314; Adhesive Back, RMS-93 |            |              |             |              |              |
|------------------------------------------------------------------------------|------------|--------------|-------------|--------------|--------------|
| Color: Grey Coated                                                           |            |              |             |              |              |
| Standard Pack: 1,000 per bag                                                 |            |              |             |              |              |
| Part No.                                                                     | "A" Ref.   | "B" Ref.     | "C" Ref.    | "D" Ref.     | "E" Ref.     |
| PFC-25M                                                                      | .188 (4.8) | .494 (12.55) | .437 (11.1) | .397 (10.10) | .751 (19.1)  |
| PFC-50M                                                                      | .204 (5.2) | .572 (14.55) | .555 (14.1) | .553 (14.05) | .982 (24.95) |

# CABLE MANAGEMENT

## ASK

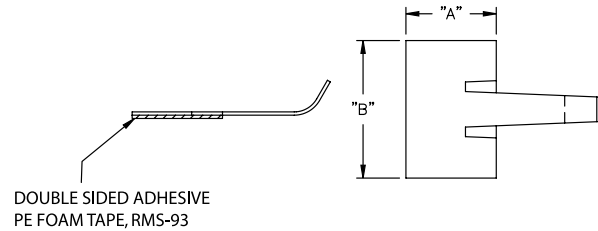
### Aluminum Clamp on Adhesive Base



| Material: Aluminum, RMS-194; Bright Finish |            |            |             |                  |
|--------------------------------------------|------------|------------|-------------|------------------|
| Standard Pack: 250 per box                 |            |            |             |                  |
| Part No.                                   | "A"        | "B"        | "C"         | Max. Bundle Dia. |
| ASK-3                                      | .44 (11.3) | .66 (16.8) | 3/8 (9.5)   | 15/64 (6)        |
| ASK-6                                      | .62 (15.7) | .74 (18.8) | 9/16 (14.3) | 3/8 (9.5)        |

## RAK

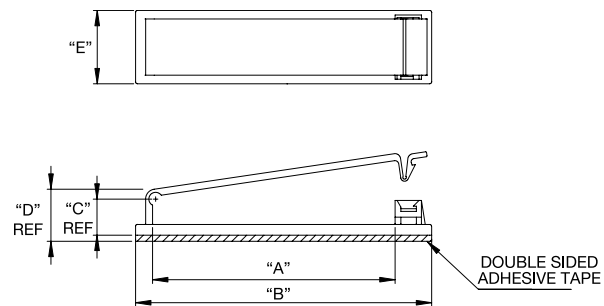
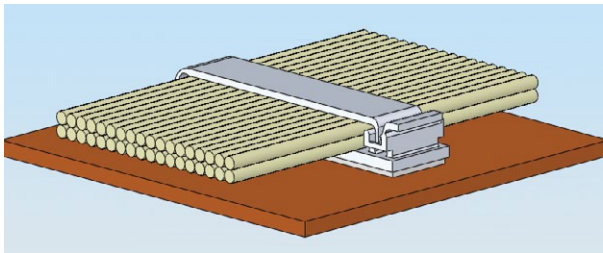
### Aluminum Clamp on Adhesive Base



| Material: Aluminum, RMS-194; Bright Finish |            |            |                  |
|--------------------------------------------|------------|------------|------------------|
| Standard Pack: 250 per box                 |            |            |                  |
| Part No.                                   | "A"        | "B"        | Max. Bundle Dia. |
| RAK-1                                      | .44 (11.3) | .67 (17.1) | .23 (6)          |
| RAK-2                                      | .64 (16.3) | .76 (19.3) | .38 (9.5)        |

## FCW

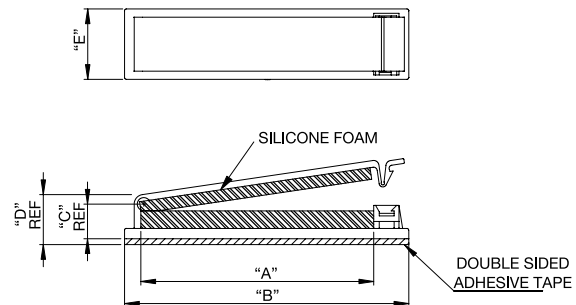
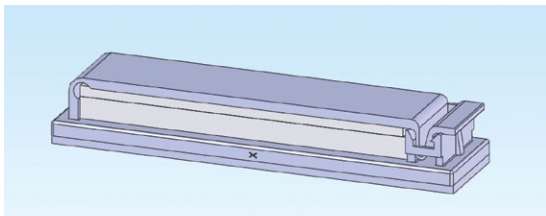
### Cable Clamp on Adhesive Base



| Part No.                            | Material: Double Adhesive Back, RMS-350 |             |             |           | Standard Pack: 100 per bag |            |  |
|-------------------------------------|-----------------------------------------|-------------|-------------|-----------|----------------------------|------------|--|
| Color: Natural                      | Max. No. of Conductors                  | "A"         | "B"         | "C" Ref.  | "D" Ref.                   | "E"        |  |
| Material: UL94 V2 Nylon 6/6, RMS-01 |                                         |             |             |           |                            |            |  |
| FCW-29-01                           | 30                                      | 1.24 (31.5) | 1.78 (45.1) | .30 (7.7) | .44 (11.1)                 | .74 (18.9) |  |
| FCW-30-01                           |                                         | 1.24 (31.6) | 1.79 (45.5) | .35 (9)   | .52 (13.1)                 |            |  |
| FCW-40-01                           | 40                                      | 1.55 (39.3) | 2.09 (53)   | .37 (9.3) | .53 (13.4)                 | .75 (19.1) |  |
| FCW-50-01                           | 50                                      | 2.49 (63.2) | 3.04 (77.2) | .36 (9.1) | .52 (13.2)                 |            |  |
| FCW-50H-01                          |                                         | 2.54 (64.6) | 3.08 (78.2) | .59 (15)  | .75 (19)                   | .74 (18.9) |  |

## FCWSF

### Cable Clamp with Adhesive Base, Silicone Foam in Center

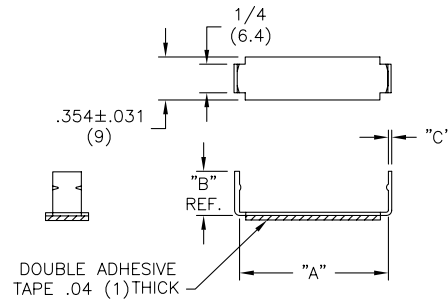
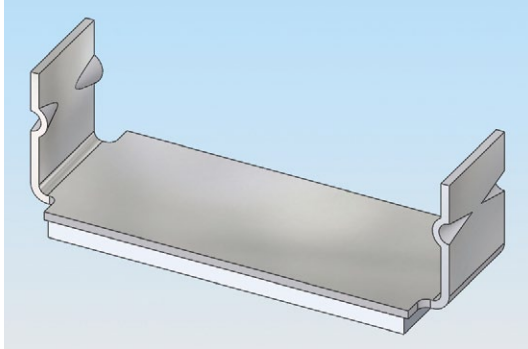


| Mat'l: UL94 V0 Nylon 6/6, RMS-19; Cushion: Adhesive backed UL94 V0 Silicone Foam, RMS-135; Adhesive Base: 1.6 thick, RMS-350 |             |             |           |                                      |            |                              |                             |
|------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-----------|--------------------------------------|------------|------------------------------|-----------------------------|
| Standard Pack: 100 per bag                                                                                                   |             |             |           | Color: Nylon: Natural; Cushion: Grey |            |                              |                             |
| Part No                                                                                                                      | "A"         | "B"         | "C" Ref.  | "D" Ref.                             | "E"        | Cushion Thickness Latch Side | Cushion Thickness Base Side |
| FCWSF-29-19                                                                                                                  | 1.24 (31.5) | 1.78 (45.1) | .30 (7.7) | .44 (11.1)                           | .74 (18.9) | .13 (3.3)                    | .13 (3.3)                   |
| FCWSF-30-19                                                                                                                  | 1.24 (31.6) | 1.79 (45.5) | .35 (9)   | .52 (13.1)                           |            |                              |                             |
| FCWSF-40-19                                                                                                                  | 1.55 (39.3) | 2.09 (53)   | .37 (9.3) | .53 (13.4)                           | .75 (19.1) |                              | .19 (4.8)                   |
| FCWSF-50-19                                                                                                                  | 2.49 (63.2) | 3.04 (77.2) | .36 (9.1) | .52 (13.2)                           |            |                              |                             |

When clamp is closed, slight gap may exist between foam.

## AFCC

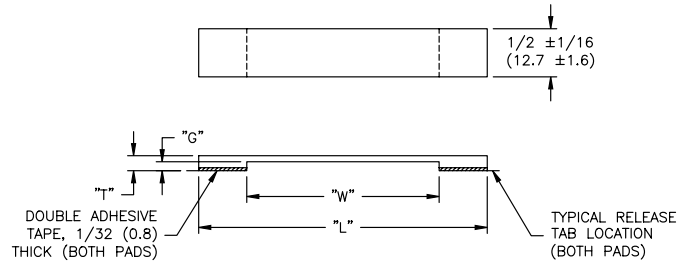
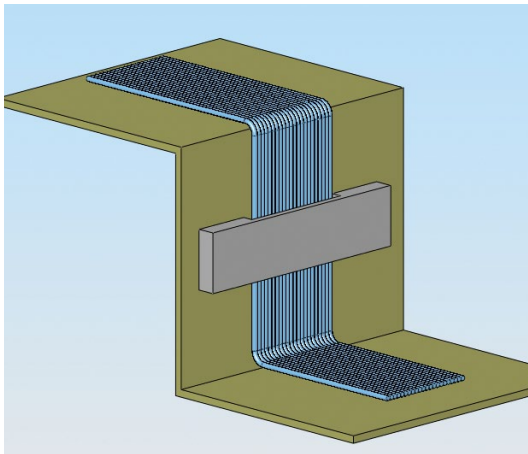
### Aluminum Flat Cable Clamp with Adhesive Base



| Material: Aluminum, RMS-194; Adhesive Back, RMS-34 Color: Bright Finish |                 |             |           |
|-------------------------------------------------------------------------|-----------------|-------------|-----------|
| Standard Pack: 250 per bag                                              |                 |             |           |
| Part No.                                                                | Cable Width "A" | "B"         | "C"       |
| AFCC-08                                                                 | 1/2 (12.7)      | 1/4 (6.4)   | .02 (0.5) |
| AFCC-12                                                                 | 3/4 (19.1)      |             |           |
| AFCC-16                                                                 | 1 (25.4)        |             |           |
| AFCC-20                                                                 | 1-1/4 (31.8)    |             |           |
| AFCC-21                                                                 | 1-5/16 (33.3)   |             |           |
| AFCC-24                                                                 | 1-1/2 (38.1)    | 7/16 (11.1) | .03 (0.7) |
| AFCC-28                                                                 | 1-3/4 (44.5)    | 1/2 (12.7)  |           |
| AFCC-32                                                                 | 2 (50.8)        | 9/16 (14.3) |           |

## FCC

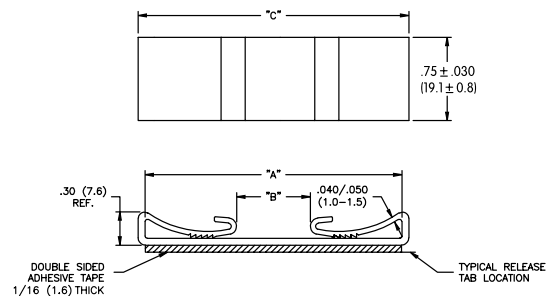
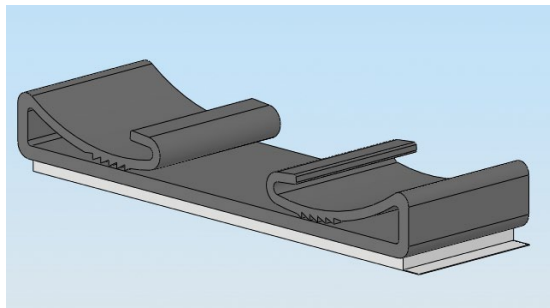
### Flat Cable Clamp with Adhesive Base



| Material: UL94 V0 PVC, RMS-04; Color: Black |                 |                   |                     |                       |                   |
|---------------------------------------------|-----------------|-------------------|---------------------|-----------------------|-------------------|
| Standard Pack: 100 per bag                  |                 |                   |                     |                       |                   |
| Part No.                                    | Clamp Width "L" | Opening Width "W" | Clamp Thickness "T" | Holding Thickness "G" | Adhesive Material |
| FCC-4-3-RT                                  | 1.5 (38.1)      | .50 (12.7)        | 5/32 (4)            | 3/32 (2.4)            | RMS-15            |
| FCC-8-3-RT                                  | 2 (50.8)        | 1.0 (25.4)        |                     |                       |                   |
| FCC-16-3-RT                                 | 3 (76.2)        | 2.0 (50.8)        |                     |                       |                   |
| Custom lengths available by special order.  |                 |                   |                     |                       |                   |

## DFCC

### Dual Flat Cable Clamp with Adhesive Base



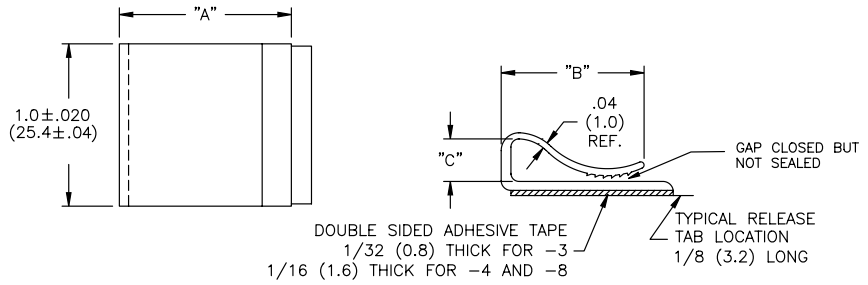
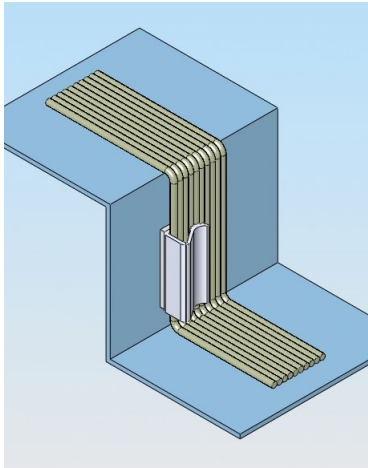
| Material: UL94 V0 PVC, RMS-04; Color: Black |               |                |               |                   |                   |
|---------------------------------------------|---------------|----------------|---------------|-------------------|-------------------|
| Standard Pack: 100 per bag                  |               |                |               |                   |                   |
| Part No.                                    | "A"           | "B" Ref.       | "C" Ref.      | No. of Conductors | Adhesive Material |
| DFCC-2-RT                                   | 2-5/16 (58.7) | 21/32 (16.8)   | 2-7/16 (61.9) | 34-37-40          | RMS-15            |
| DFCC-3-RT                                   | 3-1/4 (82.6)  | 1-39/64 (40.6) | 3-3/8 (85.7)  | 50-60-64          |                   |
| Custom lengths available by special order.  |               |                |               |                   |                   |



# CABLE MANAGEMENT

## CFCC

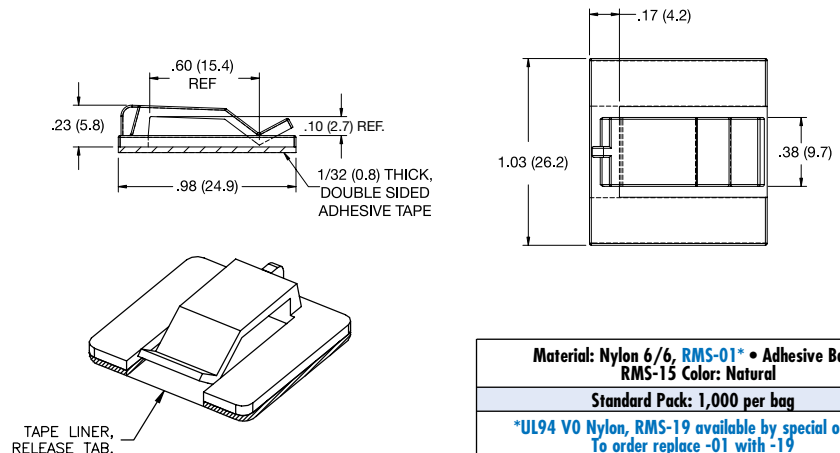
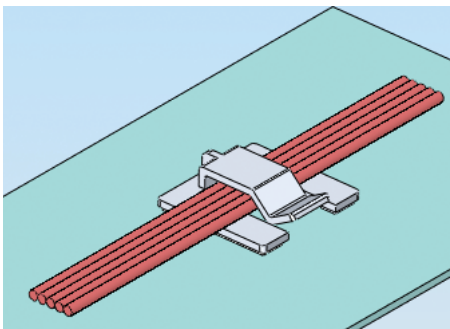
### Flat Cable Clamp on Adhesive Base



| Standard Pack: 1,000 per bag                                                                    |               |              |           |                   |                           |       |
|-------------------------------------------------------------------------------------------------|---------------|--------------|-----------|-------------------|---------------------------|-------|
| Part No.                                                                                        | "A"           | "B" Ref      | "C"       | Adhesive Material | Plastic Material          | Color |
| CFCC-3-05A-RT                                                                                   | .563 (14.29)  | .46 (11.7)   | .18 (4.6) | RMS-15            | UL94 V1 PPE/PS,<br>RMS-05 | White |
| CFCC-4-05A-RT                                                                                   |               | .40 (10.2)   |           |                   |                           |       |
| CFCC-8-05A-RT                                                                                   | 1.062 (26.97) | .880 (22.35) | .25 (6.4) |                   | UL94 V0 PVC, RMS-04       | Grey  |
| CFCC-8-04A-RT                                                                                   |               |              |           |                   |                           |       |
| Custom lengths available by special order.                                                      |               |              |           |                   |                           |       |
| Available without adhesive by special order. To order, remove A-RT from the end of the part no. |               |              |           |                   |                           |       |

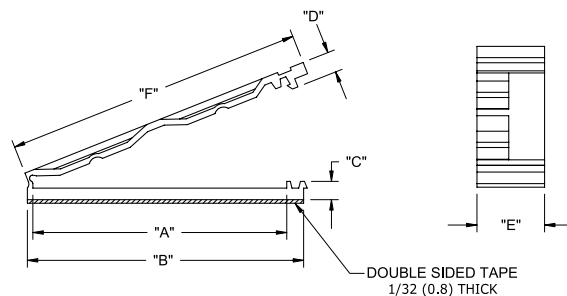
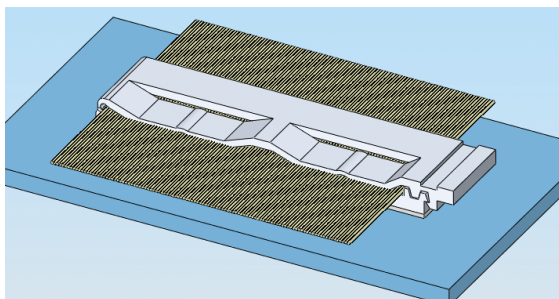
## CFCCS-8-01A

### Split Flat Cable Clamp on Adhesive Base



## TFCM

### Flat Cable Clamp with Tension on Adhesive Base



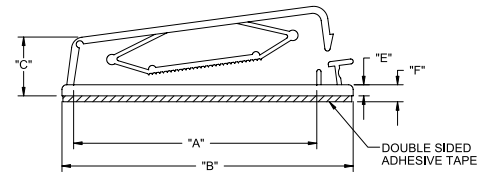
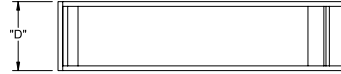
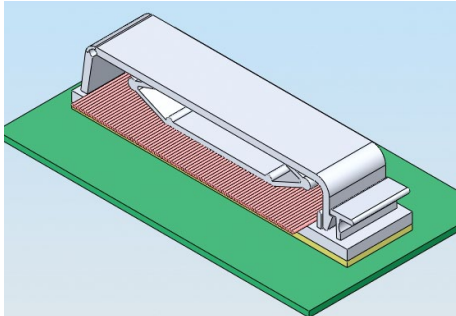
| Mat'l: Nylon 6/6, RMS-74* ; Adhesive back, RMS-431 • Color: Natural |             |             |          |           |          |           |                |
|---------------------------------------------------------------------|-------------|-------------|----------|-----------|----------|-----------|----------------|
| Standard Pack: 200 per bag                                          |             |             |          |           |          |           |                |
| Part No.                                                            | "A" Ref.    | "B" Ref.    | "C" Ref. | "D" Ref.  | "E" Ref. | "F" Ref.  | Suitable Cable |
| TFCM-25S                                                            | .87 (22)    | 1.06 (27)   | .12 (3)  | .19 (4.7) | .39 (10) | 1.26 (32) | 15 PIN         |
| TFCM-25                                                             | 1.15 (29.3) | 1.44 (36.5) |          |           | .39 (10) | 1.57 (40) | 20 PIN         |
| TFCM-25M                                                            | 2.20 (55.8) | 2.41 (61.2) | .16 (4)  |           | .59 (15) | 2.59 (66) | 40 PIN         |

\*UL94 V0 Nylon, RMS-19 available by special order. To order, add -19 to the end of the part no.



## TFCC

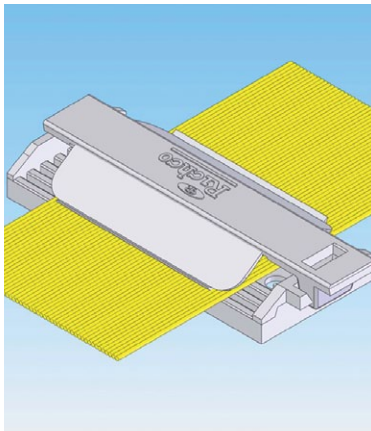
Flat Cable Clamp with Tension  
on Adhesive Base



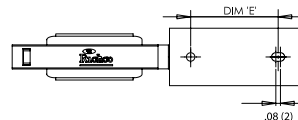
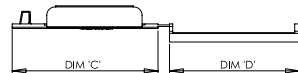
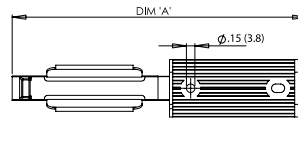
| Color: Natural             |                       |             |             |            |            |           |           |                        |              |
|----------------------------|-----------------------|-------------|-------------|------------|------------|-----------|-----------|------------------------|--------------|
| Standard Pack: 100 per bag |                       |             |             |            |            |           |           |                        |              |
| Part No.                   | Max. No of Conductors | "A" Ref.    | "B"         | "C"        | "D"        | "E"       | "F" Ref.  | UL 94 V2 Nylon 6/6 RMS | Adhesive RMS |
| TFCC-30-01                 | 30                    | 1.26 (32)   | 1.77 (45)   | .62 (15.8) | .73 (18.6) | .12 (3)   | .18 (4.6) | 74                     | 350          |
| TFCC-40-01                 | 40                    | 2.13 (54)   | 2.64 (67)   |            | .62 (15.8) | .12 (3.1) | .19 (4.7) | 01                     | 430          |
| TFCC-50-01                 | 50                    | 2.57 (65.2) | 3.09 (78.4) |            | .74 (18.8) |           |           | 74                     | 350          |

## RDAFCC

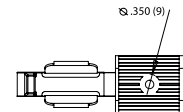
Flat Cable Clamps



RDAFCC-50 and -82



RDAFCC-25



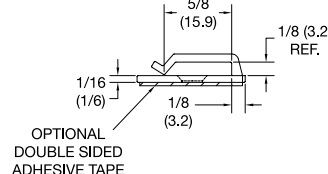
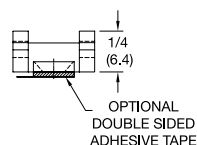
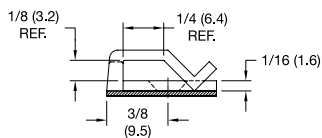
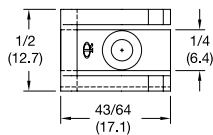
| Material: UL94 V2 Nylon 6/6, <b>RMS-01*</b> ; Optional Double Adhesive Back, RMS-324                      |                     |                                     |                 |               |              |              | Color: Grey  |     |
|-----------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------|-----------------|---------------|--------------|--------------|--------------|-----|
| Standard Pack: 100 per bag                                                                                |                     |                                     |                 |               |              |              |              |     |
| Part No                                                                                                   | Maximum Cable Width | Recommended Maximum Cable Thickness | Mounting Method | "A" Ref.      | "B" Ref.     | "C" Ref.     | "D" Ref.     | "E" |
| RDAFCC-25                                                                                                 | 1 (25.4)            | .20 (5)                             | #6 or M3 Screw  | 2.984 (75.8)  | .984 (25)    | 1.492 (37.9) | 1.169 (29.7) | -   |
| RDAFCC-25A                                                                                                |                     |                                     | Adhesive        |               |              |              |              |     |
| RDAFCC-50                                                                                                 | 2 (50.8)            |                                     | #6 or M3 Screw  | 5.059 (128.5) | 2.500 (63.5) | 2.224 (56.5) | 1.496 (38)   |     |
| RDAFCC-50A                                                                                                |                     |                                     | Adhesive        |               |              |              |              |     |
| RDAFCC-82                                                                                                 | 3 (76.2)            |                                     | #6 or M3 Screw  | 7.062 (179.4) | 1 (25.4)     | 3.484 (88.5) | 3.259 (82.8) |     |
| RDAFCC-82A                                                                                                |                     |                                     | Adhesive        |               |              |              |              |     |
| *Available in UL94 V0 material, RMS-19 by special order. To order, add -19 to the end of the part number. |                     |                                     |                 |               |              |              |              |     |

\*Available in UL94 V0 material, RMS-19 by special order. To order, add -19 to the end of the part number.

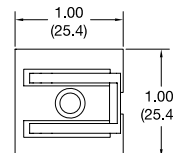
## SFCC

Split Flat Cable Clamp

SFCC-4



SFCC-8

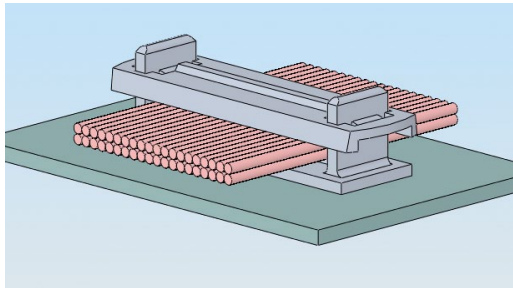


| Material: UL94 V2 Nylon 6/6, RMS-01*, Adhesive Back, RMS-15 Color: Natural |                            |
|----------------------------------------------------------------------------|----------------------------|
| Standard Pack: 1,000 per bag                                               |                            |
| Part No                                                                    | Mounting Method            |
| SFCC-4-01                                                                  | #4 or M2.5 Flat Head Screw |
| SFCC-4-01A-RT                                                              | Adhesive                   |
| SFCC-8-01                                                                  | #6 or M3 Flat Head Screw   |
| SFCC-8-01A-RT                                                              | Adhesive                   |

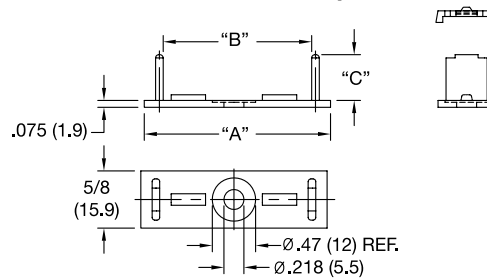
\*Available in UL94V0 Nylon by special order. To order, replace -01 with 19.

# CABLE MANAGEMENT

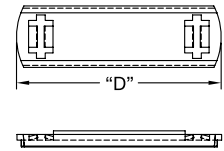
## FCRC Flat Cable Routing Clamp



## FCRC Flat Cable Clamp Base



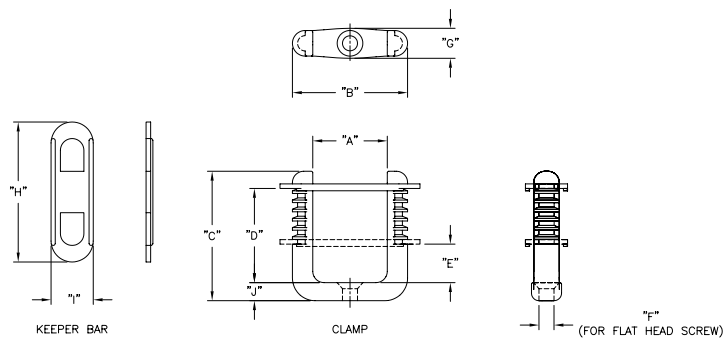
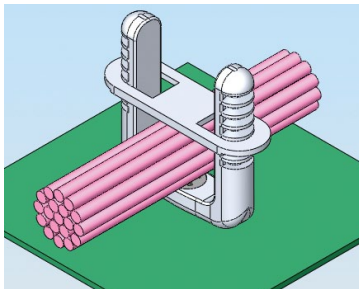
## FCRC-C Flat Cable Clamp Cover



| Material: UL94 V2 Nylon 6/6, RMS-01* ; 1/32 (0.8) Thick Adhesive Back, RMS-15      |                |                            |             |            | Color: Natural     |             |
|------------------------------------------------------------------------------------|----------------|----------------------------|-------------|------------|--------------------|-------------|
| Part No.                                                                           |                | Standard Pack: 100 per bag |             |            |                    |             |
| W/Out Adhesive                                                                     | With Adhesive  | "A" Ref.                   | "B" Ref.    | "C"        | Use Cover Part No. | "D"         |
| FCRC-13B-4                                                                         | FCRC-13B-4A-RT | 2.04 (51.7)                | 1.62 (41.2) | 1/2 (12.7) | FCRC-13C           | 2.24 (56.8) |
| FCRC-19B-4                                                                         | FCRC-19B-4A-RT | 2.72 (69.1)                | 2.31 (58.7) |            | FCRC-19C           | 2.92 (74.2) |
| FCRC-21B-4                                                                         | FCRC-21B-4A-RT | 2.98 (75.7)                | 2.55 (64.8) |            | FCRC-21C           | 3.17 (80.5) |
| FCRC-26B-4                                                                         | FCRC-26B-4A-RT | 3.66 (93)                  | 3.24 (82.3) |            | FCRC-26C           | 3.86 (98)   |
| FCRC-13B-6                                                                         | FCRC-13B-6A-RT | 2.04 (51.7)                | 1.62 (41.2) | 3/4 (19.1) | FCRC-13C           | 2.24 (56.8) |
| FCRC-19B-6                                                                         | FCRC-19B-6A-RT | 2.72 (69.1)                | 2.31 (58.7) |            | FCRC-19C           | 2.92 (74.2) |
| FCRC-21B-6                                                                         | FCRC-21B-6A-RT | 2.98 (75.7)                | 2.55 (64.8) |            | FCRC-21C           | 3.17 (80.5) |
| FCRC-26B-6                                                                         | FCRC-26B-6A-RT | 3.66 (93)                  | 3.24 (82.3) |            | FCRC-26C           | 3.86 (98)   |
| *UL94 V0 Nylon, RMS-19 available. To order, add -19 to the end of the part number. |                |                            |             |            |                    |             |

\*UL94 V0 Nylon, RMS-19 available. To order, add -19 to the end of the part number.

## D Two-Piece Locking Clamp



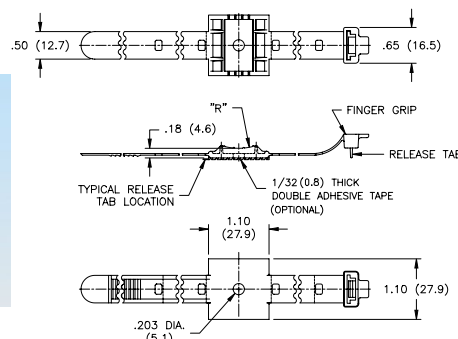
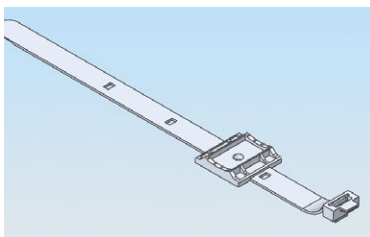
### Features

- Mounts with a #8 or M4 flat-head machine screw or bolt

| Material: Nylon 6/6, RMS-01* • Color: Natural |             |              |             |             |            |            |            |             |            |           |
|-----------------------------------------------|-------------|--------------|-------------|-------------|------------|------------|------------|-------------|------------|-----------|
| Standard Pack: 100 per bag                    |             |              |             |             |            |            |            |             |            |           |
| Part No.                                      | "A" Ref.    | "B" Ref.     | "C" Ref.    | "D" Ref.    | "E" Ref.   | "F" Ref.   | "G" Ref.   | "H" Ref.    | "I" Ref.   | "J" Ref.  |
| D-1                                           | .990 (25.1) | 1.530 (38.9) | 1.72 (43.7) | 1.25 (31.8) | .50 (12.7) | .200 (5.1) | .40 (10.2) | 1.86 (47.2) | .56 (14.2) | .24 (6)   |
| D-1.5                                         | 1.457 (37)  | 2.175 (55.3) | 2.23 (56.6) | 1.65 (41.9) | .66 (16.8) |            | .46 (11.7) | 2.47 (62.7) | .70 (17.8) | .31 (7.9) |

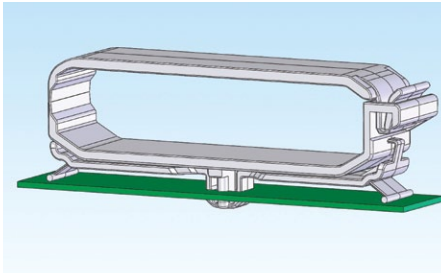
\*UL94 V0 Nylon, RMS-19 available by special order. To order, add -19 to end of part no.

## UMS Universal Mounting Strap

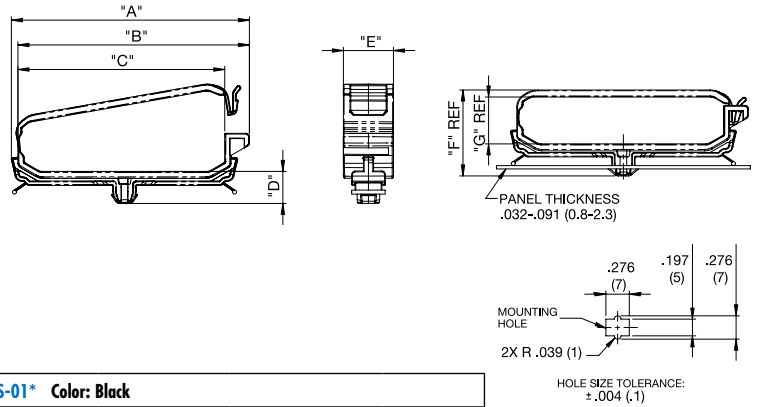


| Material: UL94 V2 Nylon 6/6, RMS-45<br>Color: Black Standard Pack: 100 per bag |                         |                     |                                    |            |
|--------------------------------------------------------------------------------|-------------------------|---------------------|------------------------------------|------------|
| Part No.                                                                       | Mounting Method         | Maximum Bundle Dia. | Min. Loop Tensile Strength lb (kg) | Radius "R" |
| UMS-16-45                                                                      | #6 or M4 Screw or Rivet | 1 (25.4)            | 50 (22.68)                         | 1/2 (12.7) |
| UMS-24-45                                                                      |                         | 1-1/2 (38.1)        |                                    | 3/4 (19.1) |
| UMS-32-45                                                                      |                         | 2 (50.8)            |                                    | 1 (25.4)   |
| UMS-16-45A-RT                                                                  | Adhesive, RMS-15        | 1 (25.4)            |                                    | 1/2 (12.7) |
| UMS-24-45A-RT                                                                  |                         | 1-1/2 (38.1)        |                                    | 3/4 (19.1) |
| UMS-32-45A-RT                                                                  |                         | 2 (50.8)            |                                    | 1 (25.4)   |

## FCCR-1 Releasable Cable Clamp



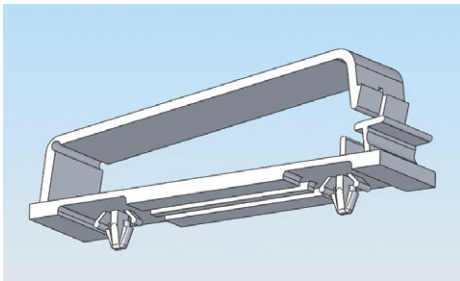
**NEW**



| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Black |                  |                  |                  |                  |                  |             |          |
|---------------------------------------------------|------------------|------------------|------------------|------------------|------------------|-------------|----------|
| Standard Pack: 100 per bag                        |                  |                  |                  |                  |                  |             |          |
| Part No.                                          | "A" ± .024 (0.6) | "B" ± .024 (0.6) | "C" ± .024 (0.6) | "D" ± .012 (0.3) | "E" ± .012 (0.3) | "F" Ref     | "G" Ref  |
| FCCR-1                                            | 2.8 (71.2)       | 2.73 (69.3)      | 2.44 (61.9)      | .38 (9.6)        | .59 (15)         | 1.01 (25.7) | .55 (14) |

\*Parts are available in UL94 V0 material by special order only. To order, add -19 to the end of the part number.

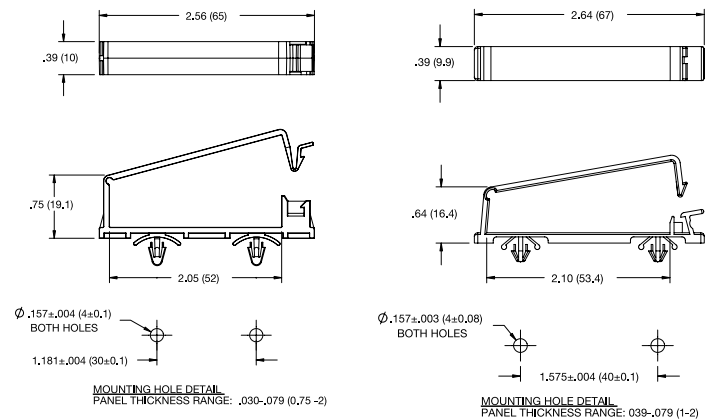
## FCCA Flat Cable Clamp, Arrowhead Mounted



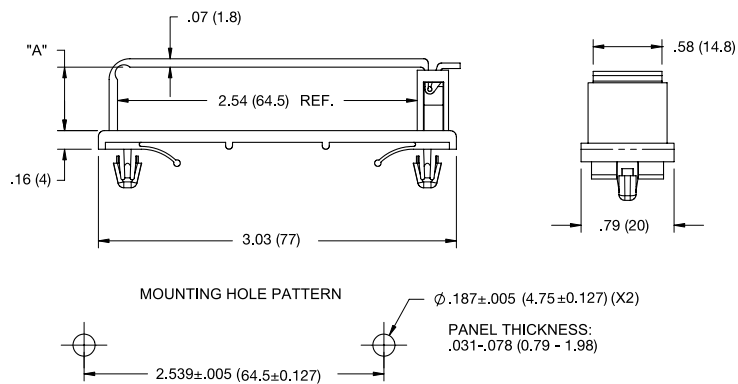
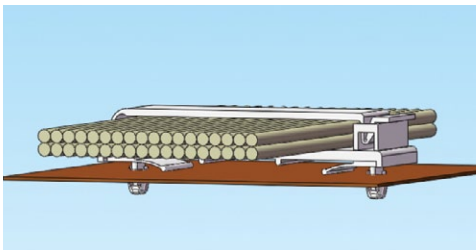
| Material: Nylon 6/6, RMS-01* Color: Natural                                            |  |
|----------------------------------------------------------------------------------------|--|
| Standard Pack: 100 per bag                                                             |  |
| *UL94 V0 Nylon, RMS-19 available by special order. To order, replace the -01 with -19. |  |

FCCA-30A-01

FCCA-40A-01



## FCCB Cable Clamp, Arrowhead Mounted



| Mat'l: UL94 V2 Nylon 6/6, RMS-01* |            |
|-----------------------------------|------------|
| Color: Natural                    |            |
| Standard Pack: 100 per bag        |            |
| Part No.                          | "A" Ref.   |
| FCCB-1                            | .28 (7.2)  |
| FCCB-2                            | .54 (13.7) |

\*UL94 V0 nylon material by special order. To order, add -19 to the end of the part no.

# CABLE MANAGEMENT

## TFCCA

### Flat Cable Clamp with Tension, Arrowhead Mounted

Fig. 1

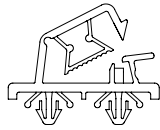
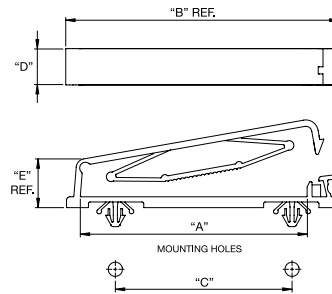


Fig. 2

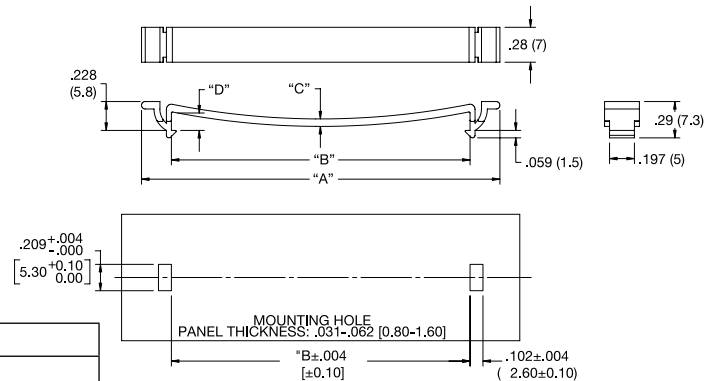
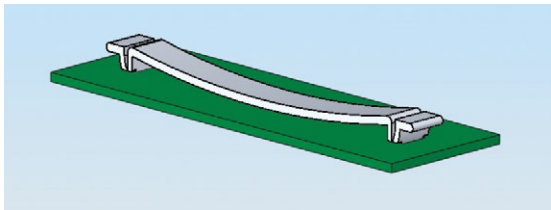


| Mat'l: Nylon 6/6, RMS-01* Color: Natural |                        |             |             |              |            |            |                         |                        |          |
|------------------------------------------|------------------------|-------------|-------------|--------------|------------|------------|-------------------------|------------------------|----------|
| Standard Pack: 100 per bag               |                        |             |             |              |            |            |                         |                        |          |
| Part No.                                 | Max. No. of Conductors | "A"         | "B" Ref.    | "C"          | "D"        | "E" Ref.   | Mounting Hole Diameters | Panel Thickness        | Fig. No. |
| TFCCA-15-01                              | 10                     | .57 (14.5)  | 1.28 (32.5) | .591 (15)    | .36 (9.1)  | .56 (14.1) | .156 (4)                | .040 - .079<br>(1 - 2) | 1        |
| TFCCA-25-01                              | 20                     | .97 (24.7)  | 1.55 (39.3) | .787 (20)    | .52 (13.2) | .50 (12.7) |                         |                        | 2        |
| TFCCA-40-01                              | 40                     | 2.13 (54.1) | 2.64 (67)   | 1.575 (40)   | .39 (10)   | .64 (16.3) |                         |                        |          |
| TFCCA-50-01                              | 50                     | 2.51 (63.8) | 3.04 (77.2) | 1.957 (49.7) | .40 (10.2) | .54 (13.7) |                         |                        |          |

\*Parts are available in UL94 V0 Material, RMS-19 by special order. To order, replace -01 with -19.

## FCCS

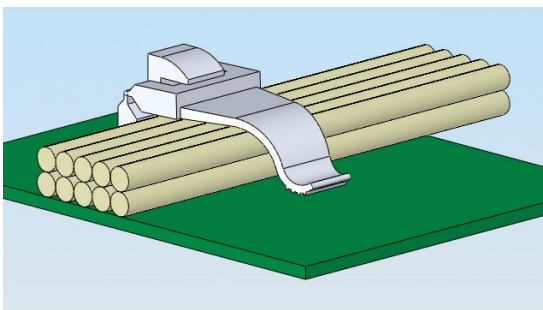
### Snap In Flat Cable Clamp



| Mat'l: Nylon 6/6, RMS-19 Color: Natural |             |             |             |           |
|-----------------------------------------|-------------|-------------|-------------|-----------|
| Standard Pack: 500 per bag              |             |             |             |           |
| Part No.                                | "A"         | "B"         | "C"         | "D"       |
| FCCS-1                                  | 1.06 (27.0) | .59 (15.0)  | .031 (0.80) | .13 (3.4) |
| FCCS-2                                  | 1.65 (42.0) | 1.18 (30.0) | .039 (1.0)  | .15 (3.7) |
| FCCS-3                                  | 1.85 (47.0) | 1.38 (35.0) |             |           |
| FCCS-4                                  | 2.24 (57.0) | 1.77 (45.0) | .047 (1.20) |           |
| FCCS-5                                  | 2.83 (72.0) | 2.36 (60.0) | .059 (1.50) |           |

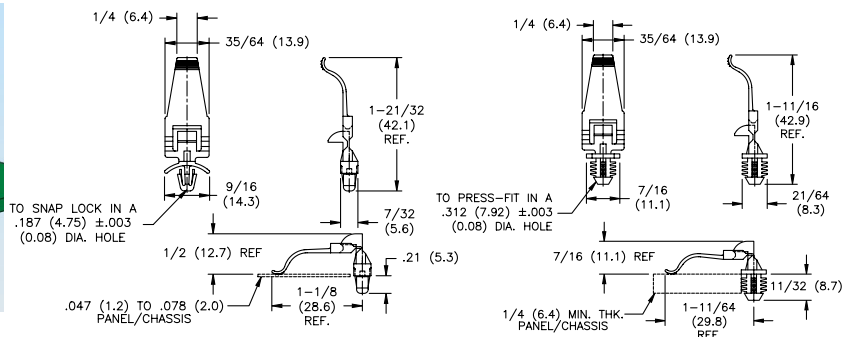
## HFCC

### Hinged Cable Clamp, Self Mounting



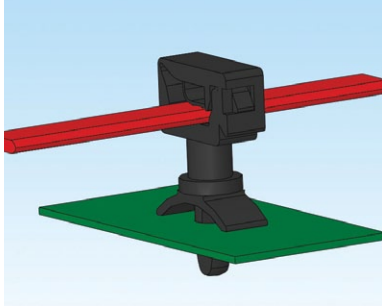
#### HFCC-A-8-01

#### HFCC-BH-8-01

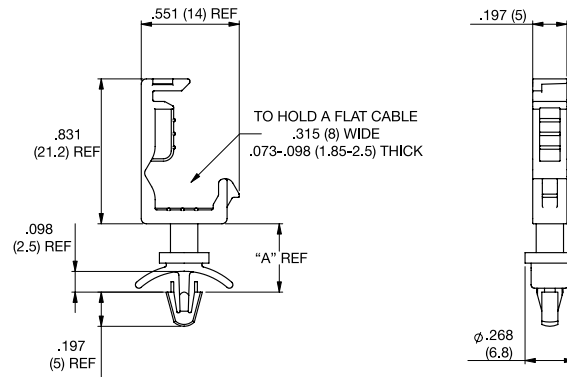


| Material: Nylon 6/6, RMS-01* Color: Natural                                        |  |
|------------------------------------------------------------------------------------|--|
| Standard Pack: 1,000 per bag                                                       |  |
| *HFCC-A-8-01 available in UL94V0 by special order. To order, replace -01 with -19. |  |

## FCWSS Flat Cable Wire Saddle

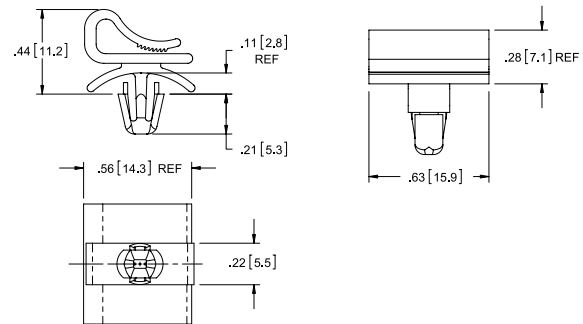
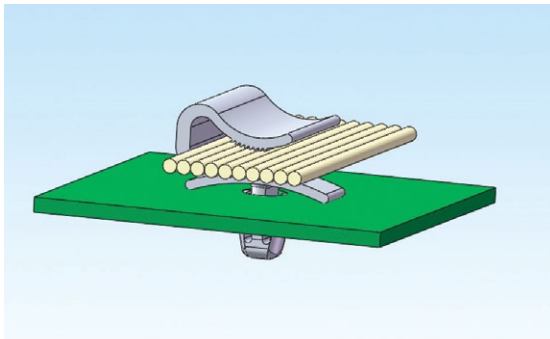


**NEW**



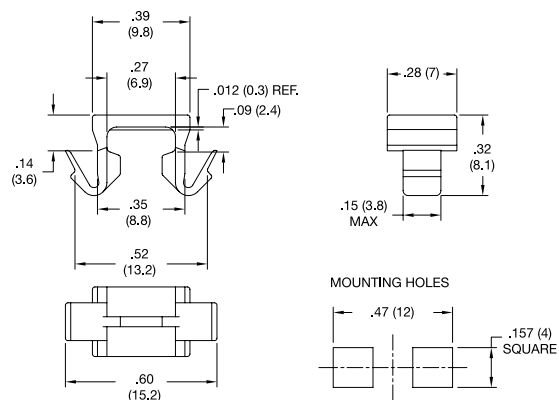
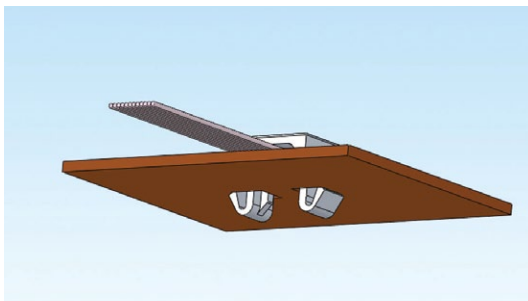
| Material: UL94 V2, RMS-01* Color: Black                                          |            |                 |                         |
|----------------------------------------------------------------------------------|------------|-----------------|-------------------------|
| Standard Pack: 1,000 per bag                                                     |            |                 |                         |
| Part Number                                                                      | "A"        | Panel Hole Dia. | Panel Thickness         |
| FCWSS-1-01BK                                                                     | .189 (4.8) | .158 (4)        | .032 - .064 (0.8 - 1.6) |
| FCWSS-2-01BK                                                                     | .394 (10)  |                 |                         |
| *UL94 V0 Nylon, RMS-19 available by special order. To order replace -01 with -19 |            |                 |                         |

## CFCCA-1-01 Flat Cable Clamp



| Material: Nylon 6/6, RMS-01* Color: Natural                              |                                 |                       |
|--------------------------------------------------------------------------|---------------------------------|-----------------------|
| Standard Pack: 1,000 per bag                                             |                                 |                       |
| Part No.                                                                 | Mounting Hole $\pm .003$ (0.08) | Panel Thickness       |
| CFCCA-1-01                                                               | .187 (4.75)                     | .031-.078 (0.79-1.98) |
| *UL94 V0 material by special order only. To order, replace -01 with -19. |                                 |                       |

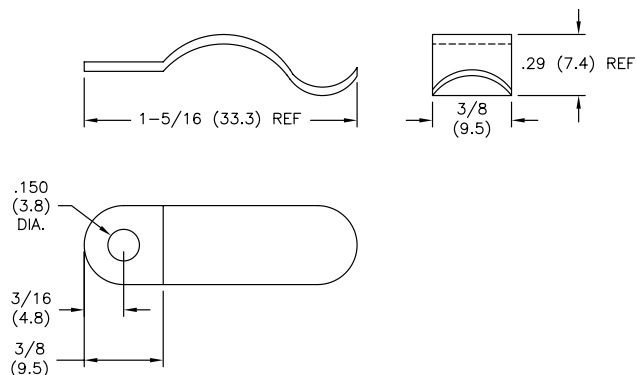
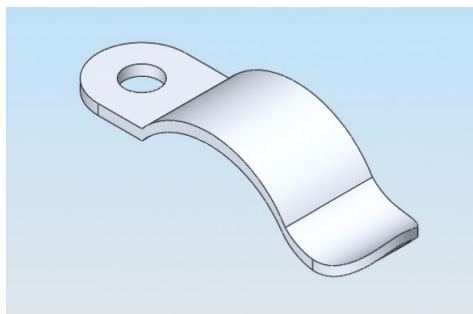
## FCCE-9-01 Flat Cable Clamp



| Material: UL94V2 Nylon 6/6, RMS-01 Color: Natural |                 |                       |
|---------------------------------------------------|-----------------|-----------------------|
| Standard Pack: 1,000 per bag                      |                 |                       |
| Part No.                                          | Max Cable Width | Panel Thickness       |
| FCCE-9-01                                         | 1/4 (6.35)      | .039 - .047 (1 - 1.2) |

# CABLE MANAGEMENT

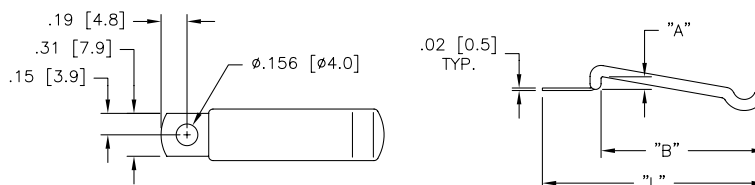
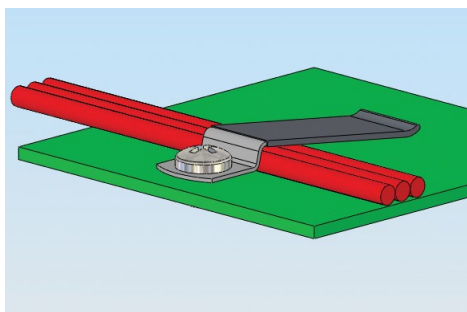
**TC-30-1**  
Tension Clamp



| Standard Pack: 1,000 per bag |              |                           |                       |                |
|------------------------------|--------------|---------------------------|-----------------------|----------------|
| Color: Natural               | Color: Black | Material                  | Recommended Holding Ø | Mounting Screw |
| TC-30-1                      | TC-30-1BK    | Acetal, RMS-14            | .37 (9.4) Max.        | # 6 (M3/M3.5)  |
| TC-30-1-01                   | TC-30-1-01BK | UL94 V2 Nylon 6/6, RMS-01 |                       |                |

NEW

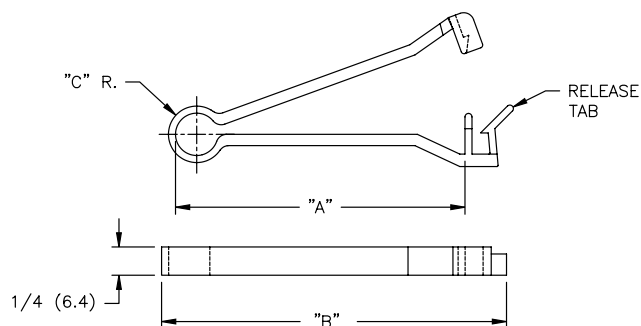
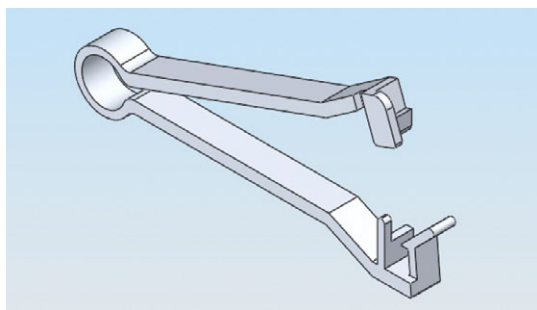
**STCV-1**  
Vinyl Coated Steel Tension Clamp



| Mat'l: Stainless Steel SAE 30301, RMS-197 • Color: Black • Coating: Plastisol Vinyl, RMS-118 - 1/32 (0.79) Nom. Thk. |             |           |             |
|----------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------------|
| Standard Pack: 1,000 per bag                                                                                         |             |           |             |
| Part No.                                                                                                             | "L"         | "A"       | "B"         |
| STCV-1                                                                                                               | 1.61 (40.9) | .09 (2.3) | 1.19 (30.2) |

Installed with a #6 or M3 screw or rivet

**FCLC/FCLCS**  
Flat Cable Loop Clip

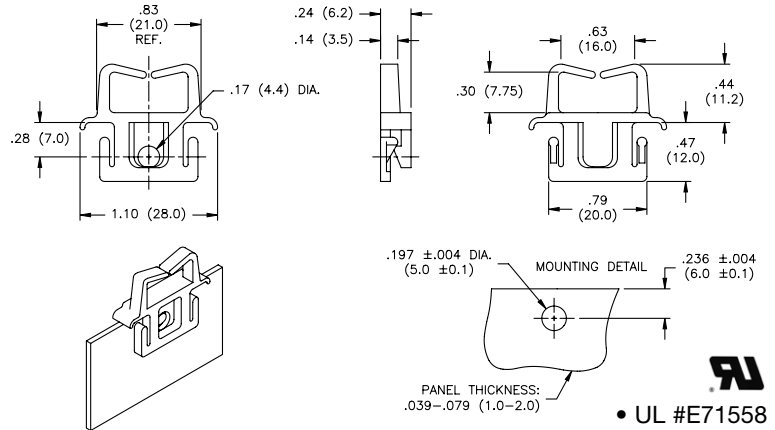
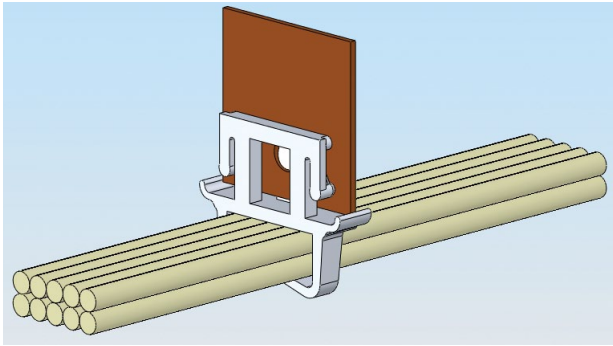


| Material: Nylon 6/6, RMS-01 Color: Natural |                      |            |           |
|--------------------------------------------|----------------------|------------|-----------|
| Standard Pack: 500 per bag                 |                      |            |           |
| Part No.                                   | "A" Max. Cable Width | "B" Ref.   | "C" Ref.  |
| FCLCS                                      | 1.5 (38.1)           | 2.0 (50.8) | .23 (5.8) |
| FCLC                                       | 2.5 (63.5)           | 3.0 (76.2) | .25 (6.4) |



## EHWSE-1-01

### Edge Holding Wire Saddle



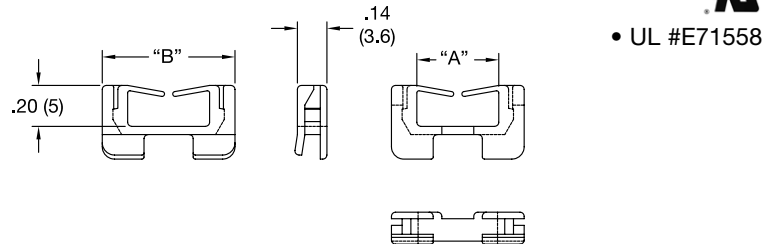
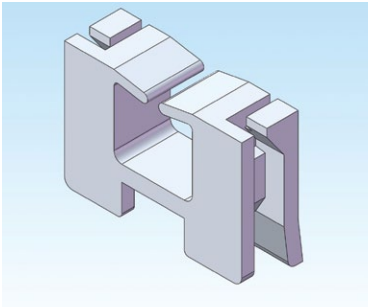
Material: Nylon 6/6, RMS-01\* • Color: Natural

Standard Pack: 500 per bag

\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.

## EWSE-8.1/12.8

### Edge Holding Wire Saddle



Material: UL94 V2 Nylon 6/6, RMS-01\* Color: Natural

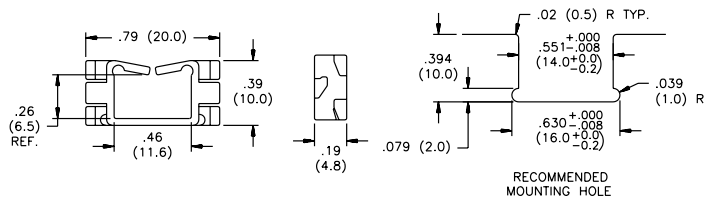
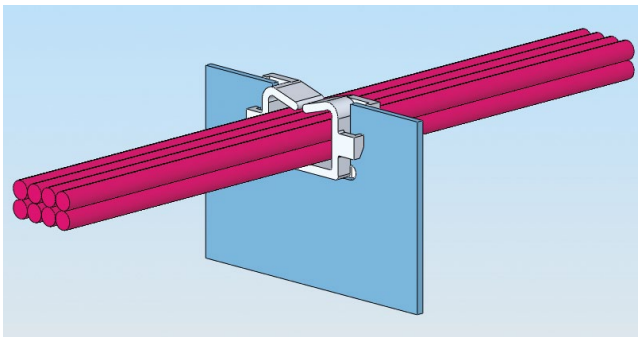
Standard Pack: 1,000 per bag

| Part No.     | "A"      | "B"        | "C"        | "D"        | Panel Thickness         |
|--------------|----------|------------|------------|------------|-------------------------|
| EWSE-8.1-01  | .20 (5)  | .44 (11.3) | .32 (8.1)  | .36 (9.1)  | .031 - .063 (0.8 - 1.6) |
| EWSE-12.8-01 | .39 (10) | .64 (16.2) | .50 (12.8) | .54 (13.8) |                         |

\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.

## EWSE-1/2/3

### Edge Wire Saddle



Material: Nylon 6/6, RMS-01\*

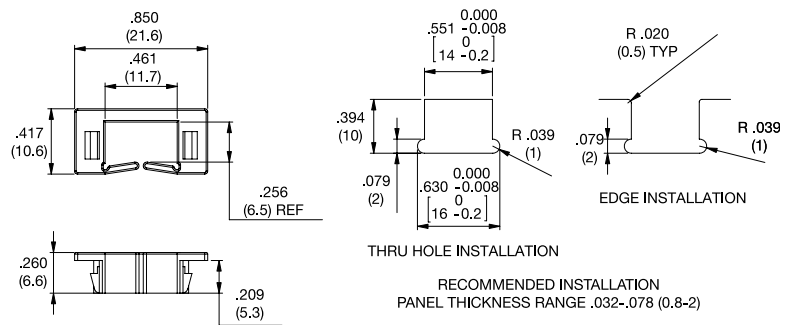
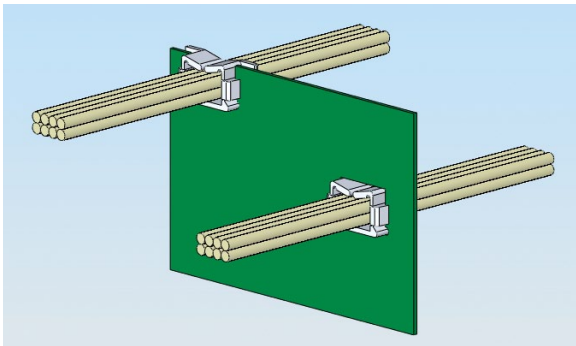
Standard Pack: 1,000 per bag

| Part No.  | Panel Thickness         | Color   |
|-----------|-------------------------|---------|
| EWSE-1-01 | .031 - .047 (0.8 - 1.2) | Black   |
| EWSE-2-01 | .047 - .063 (1.2 - 1.6) | Natural |
| EWSE-3-01 | .063 - .079 (1.6 - 2)   | Grey    |

\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.



## EWSJS-1-01 Edge Wire Saddle

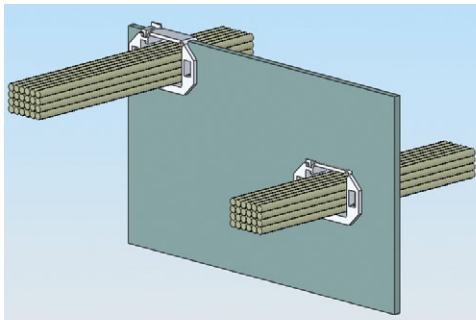


**Material: Nylon 6/6, RMS-01\* • Color: Natural**

**Standard Pack: 1,000 per bag**

**\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19.**

## HEWSE Hinged Edge Wire Saddle



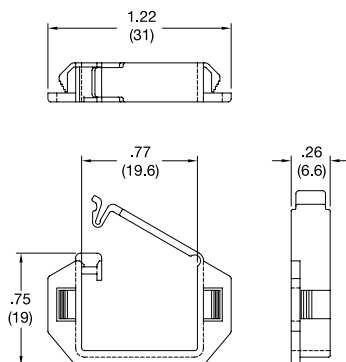
**Material: UL94 V2 Nylon 6/6, RMS-01\* Color: Natural**

**Standard Pack: 1,000 per bag**

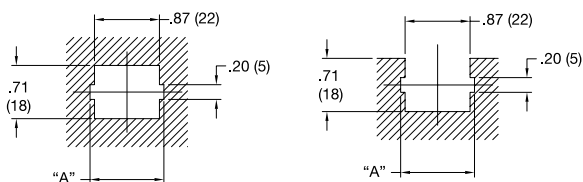
| Part No.    | Panel Thickness     | "A"        | Fig |
|-------------|---------------------|------------|-----|
| HEWSE-22-01 | .020-.063 (0.5-1.6) | .98 (25)   | 1   |
| HEWSE-25-01 | .032-.063 (0.8-1.6) | .984 (25)  | 2   |
|             | .079 (2)            | 1.023 (26) |     |

**\*UL94 V0 Nylon, RMS-19 available by special order. To order, replace -01 with -19**

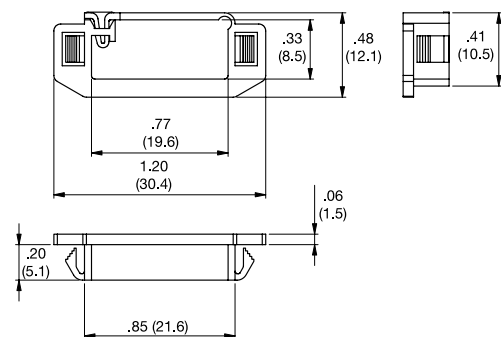
**Fig. 1**



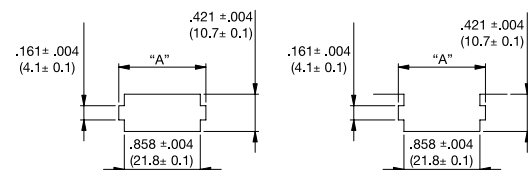
**PANEL MOUNTING DETAILS**



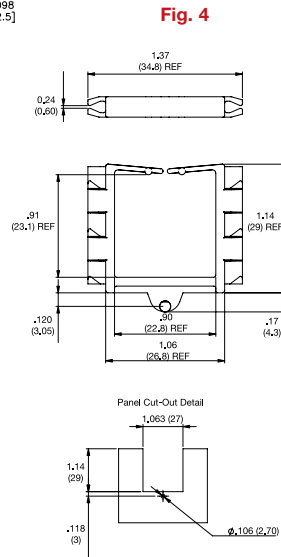
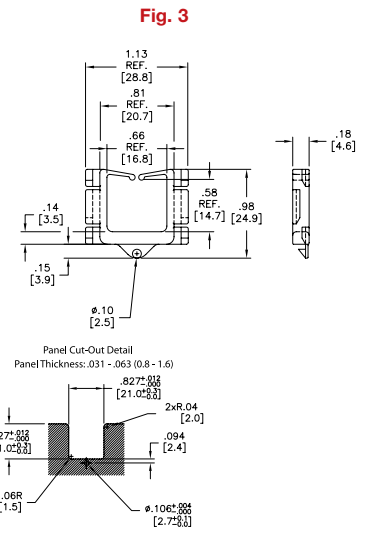
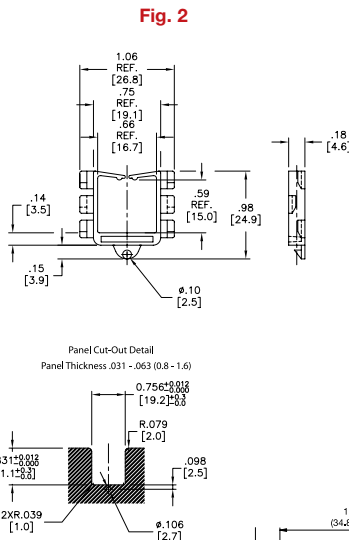
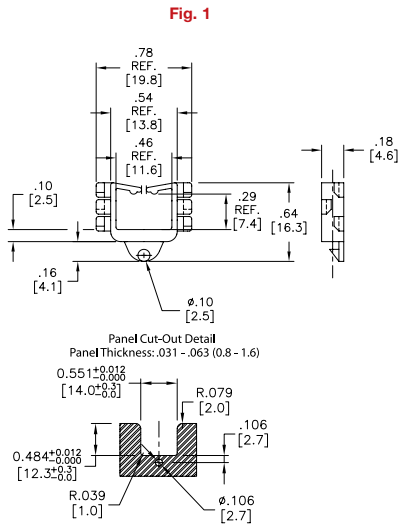
**Fig. 2**



**PANEL MOUNTING DETAILS**

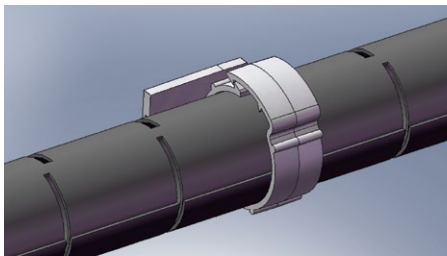


## LEWSE Edge Wire Saddle

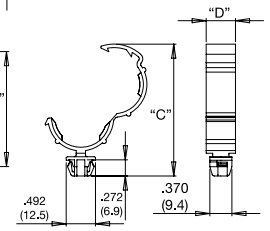
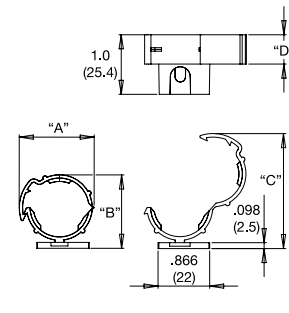
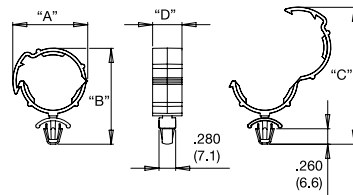


|                                                                                                    |                     |     |
|----------------------------------------------------------------------------------------------------|---------------------|-----|
| Mat'l: Nylon 6/6, <b>RMS-01*</b> Color: Natural                                                    |                     |     |
| Standard Pack: 1,000 per bag                                                                       |                     |     |
| Part No.                                                                                           | Panel Thickness     | Fig |
| LEWSE-14-01                                                                                        | .031-.063 (0.8-1.6) | 1   |
| LEWSE-19-01                                                                                        |                     | 2   |
| LEWSE-21-01                                                                                        |                     | 3   |
| LEWSE-27-01                                                                                        |                     | 4   |
| *Parts are available in UL94 V0 material by special order only.<br>To order, replace -01 with -19. |                     |     |

## SHR-C SHR Clips



**NEW**



| Material: UL94 V2 Nylon 6/6, RMS-01*, Color: Black                                                               |           |             |           |           |                                                           |                                                                        |     |
|------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----------|-----------|-----------------------------------------------------------|------------------------------------------------------------------------|-----|
| Standard Pack: 500 per bag                                                                                       |           |             |           |           |                                                           |                                                                        |     |
| Part No.                                                                                                         | "A" Ref   | "B" Ref     | "C" Ref   | "D"       | Bundle dia.                                               | Mounting Method                                                        | Fig |
| SHR-C1                                                                                                           | 1.14 (29) | 1.67 (42.5) | 2.28 (58) | .49(12.5) | To hold Richco Harness<br>Wrap SHR-20 and<br>SHR-25 sizes | Snap Lock into a .252 (6.4) Hole in a .031-.079 (0.8-2) Panel          | 1   |
| SHR-C2                                                                                                           | 1.18 (30) | 1.28 (32.5) | 1.85 (47) |           |                                                           | #8 or M4 Screw                                                         | 2   |
| SHR-C3                                                                                                           |           | 1.63 (40.5) | 2.21 (56) |           |                                                           | .03 (0.8) Thick Double Sided Adhesive Tape, RMS-375                    | 3   |
| SHR-C4                                                                                                           |           |             |           |           |                                                           | Snap Lock into a .37 (9.5) Square Hole<br>in a .031-.079 (0.8-2) Panel |     |
| *Parts are available in UL94 V0 material by special order only. To order, add -19 to the end of the part number. |           |             |           |           |                                                           |                                                                        |     |

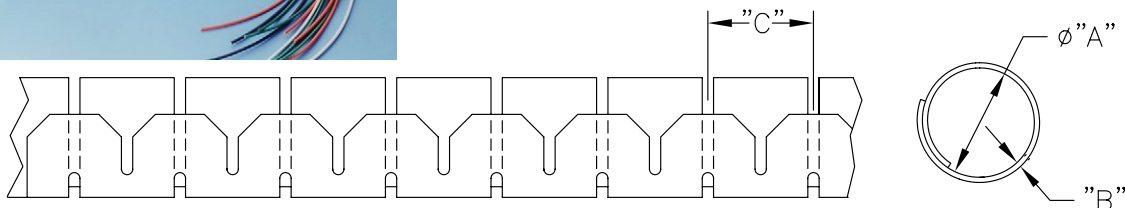
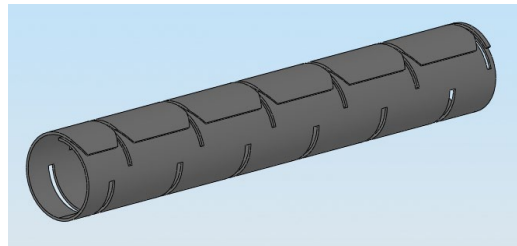
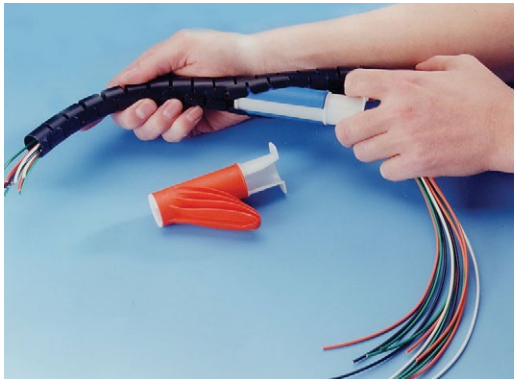
# CABLE MANAGEMENT

## SHR/CAT

Slit Harness Wrap with Installation Tool

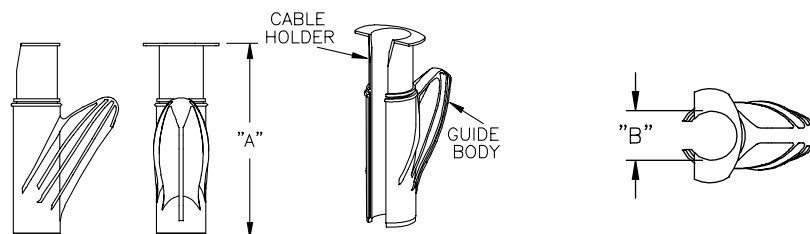
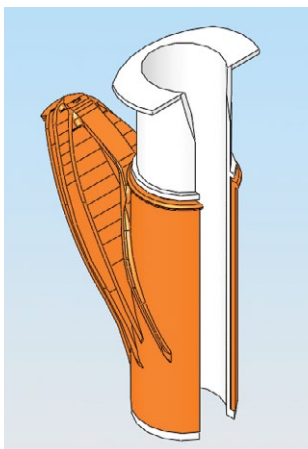


• UL #E208749



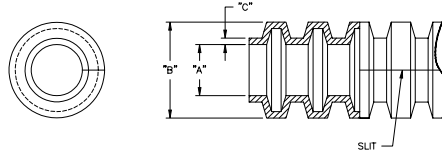
| Material: See Chart Color: Black                                                                                                                                 |           |                  |            |            |                  |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|------------|------------|------------------|----------------------------|
| Part No.                                                                                                                                                         | "A" Ref.  | Max. Bundle Dia. | "B" Ref.   | "C" Ref.   | Standard Lengths | Installation Tool Part No. |
| <b>NEW</b> SHR-05-6NB                                                                                                                                            | .20 (5)   | .24 (6)          | .032 (0.8) | .39 (10)   | 100m             | CAT-05-PP                  |
| SHR-08-6NB                                                                                                                                                       | .31 (8)   | .39 (10)         | .032 (0.8) | .39 (10)   | 100m             | CAT-08-PP                  |
| SHR-15-6NB                                                                                                                                                       | .59 (15)  | .63 (16)         | .032 (0.8) | .55 (14)   | 50m              | CAT-15-PP                  |
| SHR-20-6NB                                                                                                                                                       | .79 (20)  | .90 (23)         | .035 (0.9) | .67 (17)   | 30m              | CAT-20-PP                  |
| SHR-25-6NB                                                                                                                                                       | .98 (25)  | .98 (25)         | .039 (1)   | .79 (20)   | 20m              | CAT-25-PP                  |
| SHR-32-6NB                                                                                                                                                       | 1.25 (32) | 1.25 (32)        | .050 (1.3) | .98 (24.9) | 15m              | CAT-32-PP                  |
| <b>NEW</b> SHR-05-6V0B                                                                                                                                           | .20 (5)   | .24 (6)          | .032 (0.8) | .39 (10)   | 100m             | CAT-05-PP                  |
| SHR-08-6V0B                                                                                                                                                      | .31 (8)   | .39 (10)         | .032 (0.8) | .39 (10)   | 100m             | CAT-08-PP                  |
| SHR-15-6V0B                                                                                                                                                      | .59 (15)  | .63 (16)         | .032 (0.8) | .55 (14)   | 50m              | CAT-15-PP                  |
| SHR-20-6V0B                                                                                                                                                      | .79 (20)  | .90 (23)         | .035 (0.9) | .67 (17)   | 30m              | CAT-20-PP                  |
| SHR-25-6V0B                                                                                                                                                      | .98 (25)  | .98 (25)         | .039 (1)   | .79 (20)   | 20m              | CAT-25-PP                  |
| SHR-32-6V0B                                                                                                                                                      | 1.25 (32) | 1.25 (32)        | .050 (1.3) | .98 (24.9) | 15m              | CAT-32-PP                  |
| <b>NEW</b> SHR-05-6PPB                                                                                                                                           | .20 (5)   | .24 (6)          | .032 (0.8) | .39 (10)   | 100m             | CAT-05-PP                  |
| SHR-08-PPB                                                                                                                                                       | .31 (8)   | .39 (10)         | .032 (0.8) | .39 (10)   | 100m             | CAT-08-PP                  |
| SHR-15-PPB                                                                                                                                                       | .59 (15)  | .63 (16)         | .032 (0.8) | .55 (14)   | 50m              | CAT-15-PP                  |
| SHR-20-PPB                                                                                                                                                       | .79 (20)  | .90 (23)         | .035 (0.9) | .67 (17)   | 30m              | CAT-20-PP                  |
| SHR-25-PPB                                                                                                                                                       | .98 (25)  | .98 (25)         | .039 (1)   | .79 (20)   | 20m              | CAT-25-PP                  |
| SHR-32-PPB                                                                                                                                                       | 1.25 (32) | 1.25 (32)        | .050 (1.3) | .98 (24.9) | 15m              | CAT-32-PP                  |
| Available in various colors by special order                                                                                                                     |           |                  |            |            |                  |                            |
| For High Temperature applications up to 266 F (130 C) high temperature Nylon, RMS-157 is available by special order. To order, use PN SHR-XX-HTNB MOQ will apply |           |                  |            |            |                  |                            |

## CAT Installation Tool



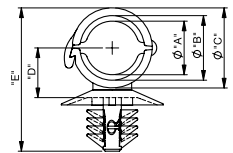
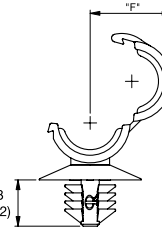
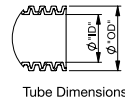
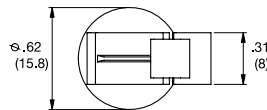
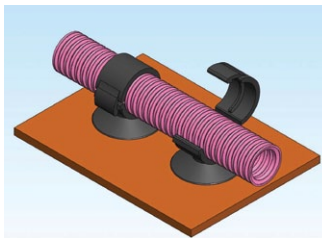
| Standard Package: 1                                                                     |            |                     |                 |                               |                                                                 |                    |
|-----------------------------------------------------------------------------------------|------------|---------------------|-----------------|-------------------------------|-----------------------------------------------------------------|--------------------|
| Part No.                                                                                | "A" Ref    | Max Bundle Dia. "B" | To Be Used With | Color                         | Material                                                        | Style              |
| NEW CAT-05-PP-BL                                                                        | 2.09 (53)  | .24 (6)             | SHR-05-YYY*     | Blue                          | Polypropylene, RMS-150                                          | See Richco Website |
| CAT-08-PP                                                                               | 2.80 (71)  | .37 (9.5)           | SHR-08-YYY*     | Body: Orange<br>Holder: White | Guide Body: Polypropylene, RMS-268; Holder: Polyacetal, RMS-267 | Shown              |
| CAT-15-PP                                                                               | 3.19 (81)  | .63 (16)            | SHR-15-YYY*     |                               |                                                                 |                    |
| CAT-20-PP                                                                               | 3.94 (100) | .79 (20)            | SHR-20-YYY*     |                               |                                                                 |                    |
| CAT-25-PP                                                                               | 4.45 (113) | .96 (24.5)          | SHR-25-YYY*     |                               |                                                                 |                    |
| CAT-32-PP                                                                               | 5.67 (144) | 1.22 (31)           | SHR-32-YYY*     |                               |                                                                 |                    |
| Tool available in bulk packages of 100/box. To order add -BU to the end of the part no. |            |                     |                 |                               |                                                                 |                    |
| *YYY = SHR Material                                                                     |            |                     |                 |                               |                                                                 |                    |

## CT Corrugated Tubing



| Material: Nylon 6, RMS-58 • Color: Black |                                          |              |                          |
|------------------------------------------|------------------------------------------|--------------|--------------------------|
| Part No.                                 | Standard Pack: 100 Feet (30 meter) coils |              |                          |
|                                          | "A" ±.015 (0.4)                          | "B" Ref.     | "C"                      |
| CT-4                                     | .270 (6.9)                               | .389 (9.9)   | .017±.003<br>(0.40±0.08) |
| CT-6                                     | .417 (10.6)                              | .545 (13.8)  |                          |
| CT-8                                     | .505 (12.8)                              | .685 (17.4)  |                          |
| CT-10                                    | .655 (16.6)                              | .820 (20.8)  |                          |
| CT-14                                    | .760 (19.3)                              | .940 (23.9)  | .020±.005<br>(0.50±0.13) |
| CT-16                                    | .935 (23.7)                              | 1.100 (27.9) |                          |
| CT-20                                    | 1.260 (32)                               | 1.500 (38.1) |                          |

## HLCC Hinged Locking Clamps



| Mat'l: Heat Stabilized UL94 V2 Nylon 6/6, RMS-47 Color: Black |                                  |           |                 |                 |           |           |            |           |            |
|---------------------------------------------------------------|----------------------------------|-----------|-----------------|-----------------|-----------|-----------|------------|-----------|------------|
| Standard Pack: 1,000 per bag                                  |                                  |           |                 |                 |           |           |            |           |            |
| Part no.                                                      | Recommended Corrugated Tube Size |           | Panel Hole Dia  | Panel Thickness | "A" Ref.  | "B" Ref.  | "C" Ref.   | "D" Ref.  | "E" Ref.   |
|                                                               | ID                               | OD        |                 |                 |           |           |            |           |            |
| HLCC-1BK                                                      | .20 (5)                          | .28 (7.1) | .26-.28 (6.5-7) | .03-.12 (0.8-3) | .23 (5.8) | .28 (7.2) | .38 (9.6)  | .25 (6.3) | .78 (19.7) |
| HLCC-2BK                                                      | .27 (6.9)                        | .39 (9.9) |                 |                 | .33 (8.3) | .39 (10)  | .49 (12.4) | .30 (7.7) | .87 (22.2) |

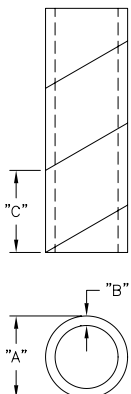
## HR Spiral Wrap



**UL**  
• UL #E208749

### Features

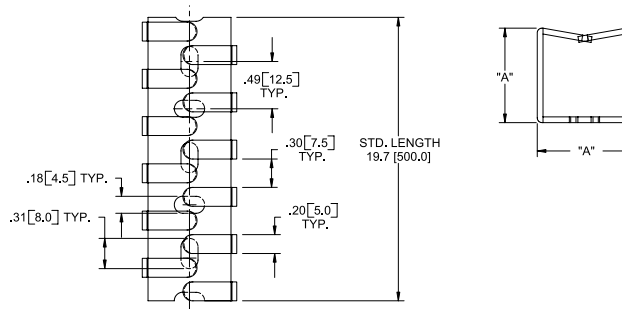
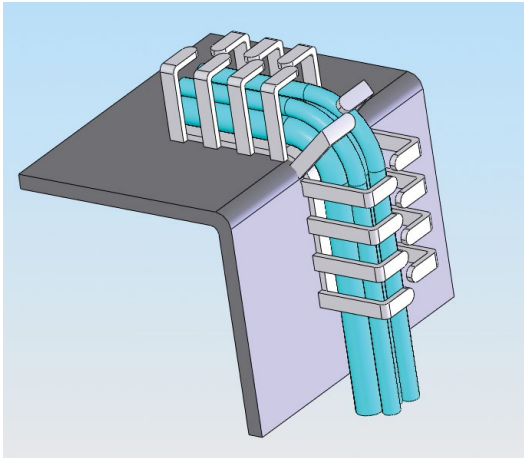
- Free assembly tool (HRT-1) with every 100 foot (30 meter) roll



| Part No.                                                                   | Material/Color                      | "A" Ref.   | "B" Ref.   | "C" Ref.               | Bundle Range               | Standard Pack            |                            |
|----------------------------------------------------------------------------|-------------------------------------|------------|------------|------------------------|----------------------------|--------------------------|----------------------------|
| HR2N-1/8                                                                   | Nylon<br>(RMS-88)<br>Natural        | 1/8 (3.2)  | .020 (0.5) | .17 (4.3)              | 1/16 to 1/2 (1.6 - 12.7)   | 100'<br>(30 meter) rolls |                            |
| HR3N-3/16                                                                  |                                     | 3/16 (4.8) |            | .25 (6.4)              | 1/8 to 1 (3.2 - 25.4)      |                          |                            |
| HR4N-1/4                                                                   |                                     | 1/4 (6.4)  |            | .025 (0.6)             | .30 (7.6)                  |                          | 3/16 to 1-1/2 (4.8 - 38.7) |
| HR6N-3/8                                                                   |                                     | 3/8 (9.5)  |            | .035 (0.9)             | .38 (9.5)                  |                          | 5/16 to 2 (7.9 - 50.8)     |
| HR8N-1/2                                                                   | Polyethylene<br>(RMS-06)<br>Natural | 1/2 (12.7) | .040 (1)   | .50 (12.7)             | 3/4 to 3 (19.1 - 76.2)     |                          |                            |
| HR2P-1/8                                                                   |                                     | 1/8 (3.2)  | .020 (0.5) | .17 (4.3)              | 1/16 to 3/8 (1.6 - 9.5)    |                          |                            |
| HR3P-3/16                                                                  |                                     | 3/16 (4.8) | .030 (0.8) | .25 (6.4)              | 1/8 to 1 (3.2 - 25.4)      |                          |                            |
| HR4P-1/4                                                                   |                                     | 1/4 (6.4)  | .050 (1.3) | .30 (7.6)              | 3/16 to 1 (4.8 - 25.4)     |                          |                            |
| HR6P-3/8                                                                   | 3/8 (9.5)                           | .38 (9.5)  |            | 5/16 to 2 (7.9 - 50.8) |                            |                          |                            |
| HR8P-1/2                                                                   | Polyethylene<br>(RMS-06)<br>Black   | 1/2 (12.7) | .060 (1.5) | .50 (12.7)             | 3/4 to 3 (19.1 - 76.2)     |                          |                            |
| HR4U-1/4                                                                   |                                     | 1/4 (6.4)  | .050 (1.3) | .30 (7.6)              | 3/16 to 3/4 (4.8 - 19.1)   |                          |                            |
| HR6U-3/8                                                                   |                                     | 3/8 (9.5)  |            | .38 (9.5)              | 5/16 to 2 (7.9 - 50.8)     |                          |                            |
| HR8U-1/2                                                                   |                                     | 1/2 (12.7) | .060 (1.5) | .50 (12.7)             | 3/4 to 3-1/2 (19.1 - 88.9) |                          |                            |
| HR4V-1/4                                                                   | Polycarbonate<br>(RMS-23) Clear     | 1/4 (6.4)  | .025 (0.6) | .30 (7.6)              | 3/16 to 1 (4.8 - 25.4)     |                          |                            |
| Custom lengths and colors available by special order.                      |                                     |            |            |                        |                            |                          |                            |
| HR is a RIGHT-handed wrap. LEFT-handed wrap is available by special order. |                                     |            |            |                        |                            |                          |                            |

# CABLE MANAGEMENT

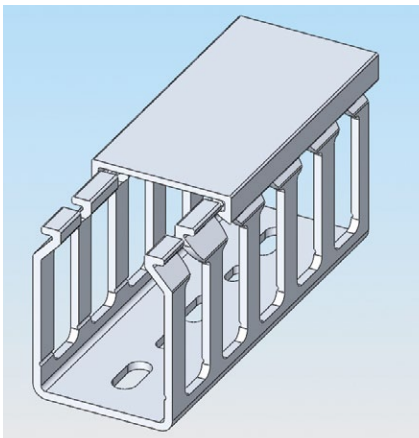
## RX Richflex Flexible Channel



Material: Polypropylene, RMS-177 • Adhesive Back, RMS-93 • Color: Grey • Std. Length: 19.7 (500)

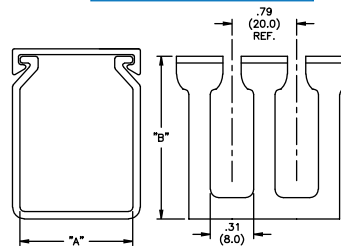
| Part No. | Ext. Dim.<br>"A" x "A"<br>in (mm) | Int. Section<br>in" (mm) | Standard Packing<br>(pcs) | Mounting<br>Method |
|----------|-----------------------------------|--------------------------|---------------------------|--------------------|
| RX1313-0 | .492 x .492<br>(12.5 x 12.5)      | .171<br>(110)            | 112                       | Screw              |
| RX1313-4 |                                   |                          |                           | Adhesive           |
| RX1616-0 | .630 x .630<br>(16 x 16)          | .287<br>(185)            | 84                        | Screw              |
| RX1616-4 |                                   |                          |                           | Adhesive           |
| RX2020-0 | .787 x .787<br>(20 x 20)          | .496<br>(320)            | 112                       | Screw              |
| RX2020-4 |                                   |                          |                           | Adhesive           |
| RX2525-0 | .984 x .984<br>(25 x 25)          | .775<br>(500)            | 70                        | Screw              |
| RX2525-4 |                                   |                          |                           | Adhesive           |
| RX3030-0 | 1.181 x 1.181<br>(30 x 30)        | 1.116<br>(720)           | 50                        | Screw              |
| RX3030-4 |                                   |                          |                           | Adhesive           |
| RX4040-0 | 1.575 x 1.575<br>(40 x 40)        | 2.046<br>(1320)          | 50                        | Screw              |
| RX4040-4 |                                   |                          |                           | Adhesive           |
| RX5050-0 | 1.969 x 1.969<br>(50 x 50)        | 3.162<br>(2040)          | 32                        | Screw              |
| RX5050-4 |                                   |                          |                           | Adhesive           |

## SRWD/SRWDN Slotted Richco Wiring Duct

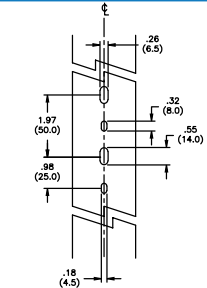


• UL #E161178

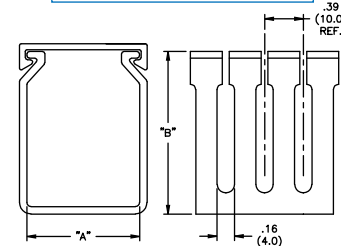
### SRWD-WIDE SLOT



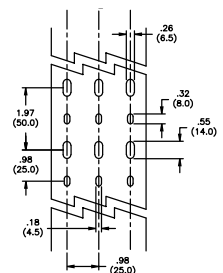
### MOUNTING STYLE #1



### SRWDN-NARROW SLOT



### MOUNTING STYLE #2



Mat'l: PVC, RMS-195 Color: Grey, Length 6-1/2' (1.98m)

| Part No.  | "A"         | "B"        | Standard Pack | Mounting Style |
|-----------|-------------|------------|---------------|----------------|
| SRWD-1015 | 1.0 (25.4)  | 1.5 (38.1) | 78' (24m)     | 1              |
| SRWD-1515 | 1.5 (38.1)  | 1.5 (38.1) |               |                |
| SRWD-1520 |             | 2.0 (50.8) | 52' (16m)     |                |
| SRWD-2020 | 2.0 (50.8)  | 2.0 (50.8) | 52' (16m)     | 2              |
| SRWD-4020 | 4.0 (101.6) | 2.0 (50.8) | 26' (8m)      |                |

Parts also available in White, Black and Blue by special order.  
To order, add suffix W for White, BL for Blue, and BK for Black

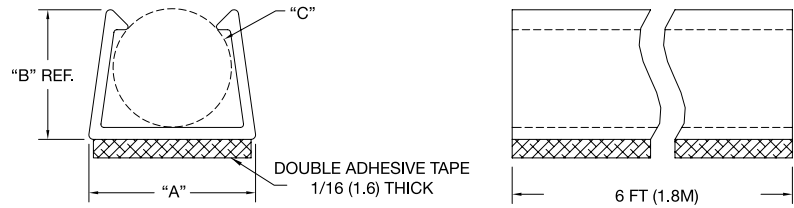
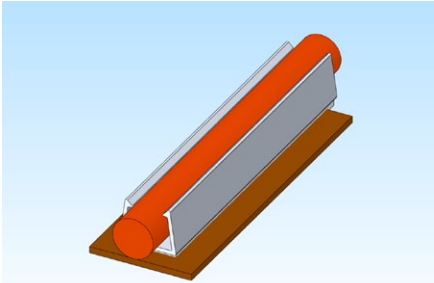
Mat'l: PVC, RMS-195 Color: Grey

| Part No.    | "A"        | "B"        | Standard Pack | Mounting Style |
|-------------|------------|------------|---------------|----------------|
| SRWDN1-1530 | 1.5 (38.1) | 3.0 (76.2) | 78' (24m)     | 1              |
| SRWDN1-2030 | 2.0 (50.8) | 2.0 (50.8) |               |                |

Parts also available in White, Black and Blue by special order.  
To order, add suffix W for White, BL for Blue, and BK for Black

## SCD

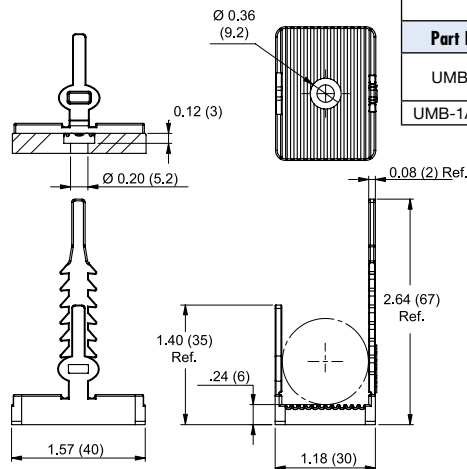
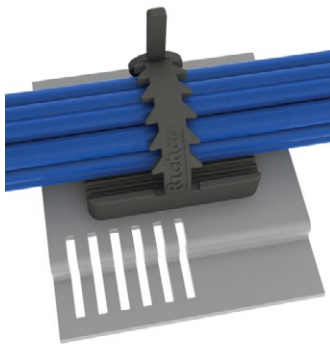
### Single Cable Duct on Adhesive Base



| Material: Rigid PVC, RMS-32; Adhesive, RMS-15 Color: Computer Tan |           |           |                   |                       |          |
|-------------------------------------------------------------------|-----------|-----------|-------------------|-----------------------|----------|
| Standard Pack: 60 ft. (18.3m) in ten 6 ft (1.8m) long pieces      |           |           |                   |                       |          |
| Part No.                                                          | "A"       | "B" Ref   | "C" Holding Dia.  | Cable Recommendations |          |
|                                                                   |           |           |                   | COAX                  | COMPUTER |
| SCD-1521                                                          | .30 (7.6) | .25 (6.4) | .156-.218 (4-5.5) | RG58                  | -        |
| SCD-2228                                                          | .36 (9.1) | .29 (6.6) | .218-.280 (4-7.1) | RG59,62,6             | 9 Line   |

## UMB

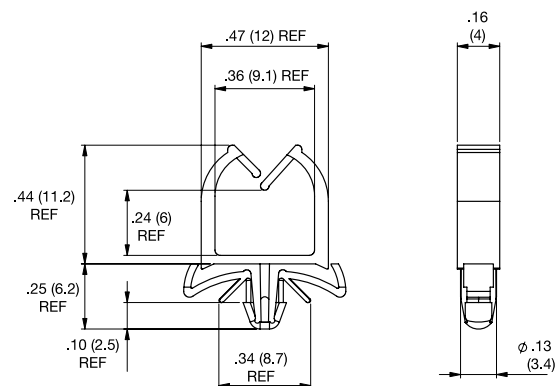
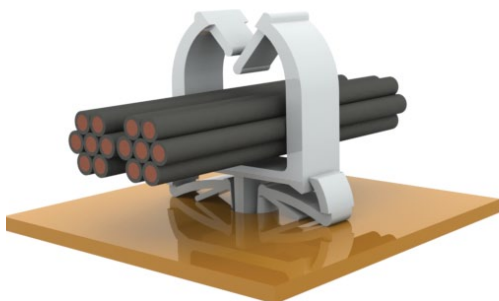
### Flexible Cable Clamp



| Material: Neoprene Rubber 50 Shore A, RMS-190; Adhesive, Double Coated PSA .10 (0.2) Thick, RMS-139 |                                                |                               |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------|
| Color: Black                                                                                        |                                                |                               |
| Standard Pack: 200 per bag                                                                          |                                                |                               |
| Part No                                                                                             | Mounting Method                                | Approx. Max Cable Bundle Dia. |
| UMB-1                                                                                               | #10 (M5) Screw or SR-50XX Rivet (not supplied) | .79 (20)                      |
| UMB-1A-RT                                                                                           | Adhesive                                       |                               |

## MWSER

### Releasable Micro Wire Saddle



| Standard Pack: 1,000 per bag, Color: Natural |                                     |                   |                         |
|----------------------------------------------|-------------------------------------|-------------------|-------------------------|
| Part No.                                     |                                     | Mounting Hole Dia | Panel Thickness         |
| Material: UL94 V2 Nylon 6/6, RMS-01          | Material: UL94 V0 Nylon 6/6, RMS-19 |                   |                         |
| MWSER-3-01                                   | MWSER-3-19                          | .138 (3.5)        | .031 - .063 (0.8 - 1.6) |

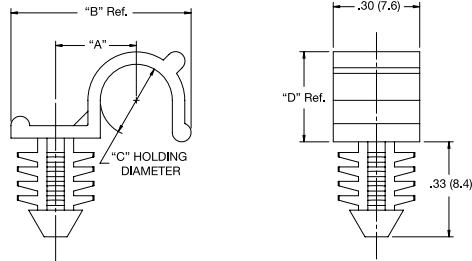


# CABLE MANAGEMENT

## HURCBH Blind Hole Clip



**NEW**



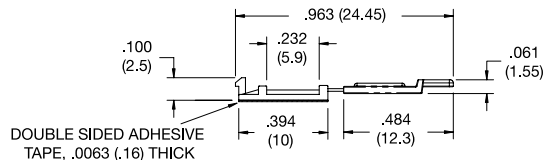
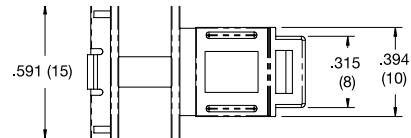
| Mat'l: UL94 V2 Nylon 6/6, RMS-01* Color: Natural Standard Pack: 1,000 per bag |                  |           |            |           |                 |                |
|-------------------------------------------------------------------------------|------------------|-----------|------------|-----------|-----------------|----------------|
| Part No.                                                                      | "C" Holding Dia. | "A"       | "B" Ref.   | "D" Ref.  | Mounting Hole Ø | Min. Panel Thk |
| HURCBH-2-01                                                                   | 1/8 (3.2)        | .20 (5.1) | .49 (12.4) | .17 (4.3) | .250 (6.35)     | .250 (6.35)    |
| HURCBH-3-01                                                                   | 3/16 (4.8)       | .24 (6.1) | .56 (14.2) | .24 (6.1) |                 |                |
| HURCBH-4-01                                                                   | 1/4 (6.4)        | .27 (6.9) | .62 (15.7) | .30 (7.6) |                 |                |

\*Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19.

## MCC-1-01BK Micro Cable Clamp on Adhesive Base



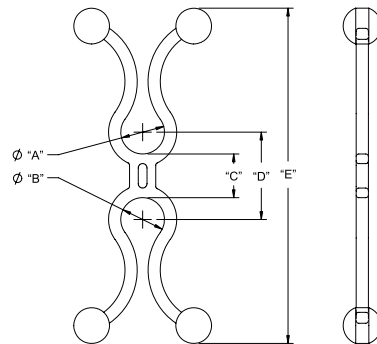
**NEW**



| Mat'l: UL94 V2 Nylon 6/6, RMS-01* ; Adhesive Back, RMS-414; Color: Black |                     |                 |
|--------------------------------------------------------------------------|---------------------|-----------------|
| Standard Pack: 1,000 per bag                                             |                     |                 |
| Part No.                                                                 | Max Cable Thickness | Max Cable Width |
| MCC-1-01A-BK                                                             | .04 (1)             | .23 (5.8)       |

\*Parts are available in UL94 V0 material by special order only. To order, replace -01 with -19.

## DTL Dual End Twist Lock



| Material: Nylon 6/6, RMS-01* Color: Natural, Standard Pack: 500 per bag |                            |               |              |              |
|-------------------------------------------------------------------------|----------------------------|---------------|--------------|--------------|
| Part No.                                                                | "A" and "B" Bundle Ø Range | "C"           | "D" Ref.     | "E" Ref      |
| DTL2525-4-01                                                            | .20-.30 (5.08-7.62)        | 1/4 (6.35)    | 1/2 (12.7)   | 1.92 (48.77) |
| DTL2525-12-01                                                           |                            | 3/4 (19.05)   | 1 (25.4)     | 2.42 (61.47) |
| DTL2525-20-01                                                           |                            | 1-1/4 (31.75) | 1-1/2 (38.1) | 2.92 (74.18) |
| DTL3535-4-01                                                            | .30-.40 (7.62-10.16)       | 1/4 (6.35)    | .60 (15.2)   | 2.18 (55.37) |
| DTL3535-12-01                                                           |                            | 3/4 (19.05)   | 1.10 (27.9)  | 2.68 (68.07) |
| DTL3535-20-01                                                           |                            | 1-1/4 (31.75) | 1.60 (40.6)  | 3.18 (80.77) |
| DTL4545-4-01                                                            | .40-.50 (10.16-12.7)       | 1/4 (6.35)    | .60 (15.2)   | 2.18 (55.37) |
| DTL4545-12-01                                                           |                            | 3/4 (19.05)   | 1.10 (27.9)  | 2.68 (68.07) |
| DTL4545-20-01                                                           |                            | 1-1/4 (31.75) | 1.60 (40.6)  | 3.18 (80.77) |
| DTL5555-4-01                                                            | .50-.60 (12.7-15.24)       | 1/4 (6.35)    | .60 (15.2)   | 2.18 (55.37) |
| DTL5555-12-01                                                           |                            | 3/4 (19.05)   | 1.10 (27.9)  | 2.68 (68.07) |
| DTL5555-20-01                                                           |                            | 1-1/4 (31.75) | 1.60 (40.6)  | 3.18 (80.77) |
| DTL6565-4-01                                                            | .60-.70 (15.24-17.79)      | 1/4 (6.35)    | .60 (15.2)   | 2.18 (55.37) |
| DTL6565-12-01                                                           |                            | 3/4 (19.05)   | 1.10 (27.9)  | 2.68 (68.07) |
| DTL6565-20-01                                                           |                            | 1-1/4 (31.75) | 1.60 (40.6)  | 3.18 (80.77) |
| DTL7575-4-01                                                            | .70-.80 (17.79-20.32)      | 1/4 (6.35)    | 1 (25.4)     | 3.10 (78.74) |
| DTL7575-12-01                                                           |                            | 3/4 (19.05)   | 1-1/2 (38.1) | 3.60 (91.44) |
| DTL7575-20-01                                                           |                            | 1-1/4 (31.75) | 2 (50.8)     | 4.10 (104.1) |

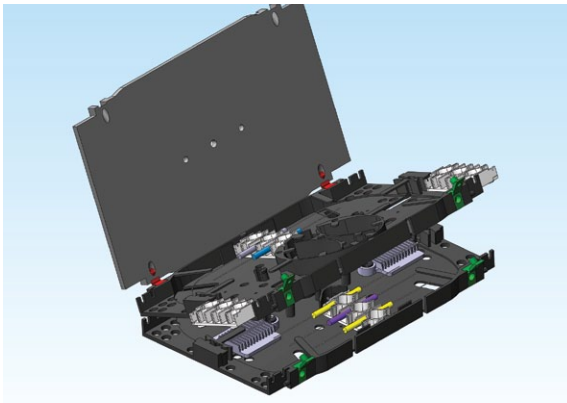
\*Available in UL94 V0 material by special order. To order, replace -01 with -19.

Notes

Lined area for notes.



OFST  
Optical Fiber  
Splice Tray System



Features

- Lid, trays, and hinges all sold separately or in a kit: OFST-A-P-1
- Inter-tray fiber routing possible through slots along one of the long sides
- OFSTH color coded hinges indicate side of tray to open from
- Can be used with OFSH splice holders, OFSP splice protectors and OFBLT bend limiting tubing

Fig. 1

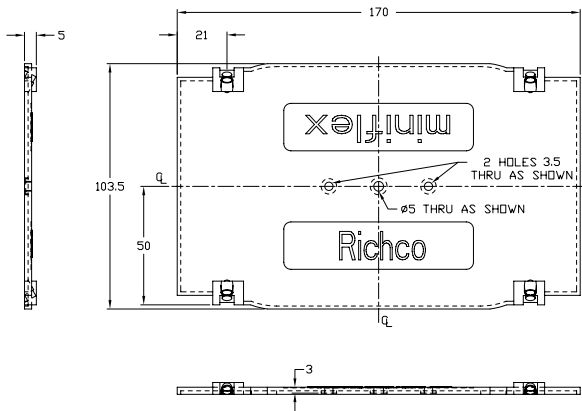


Fig. 2

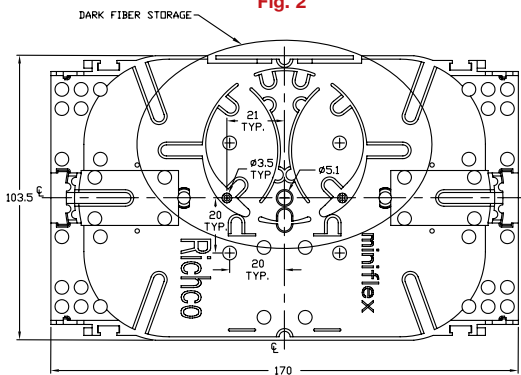


Fig. 3

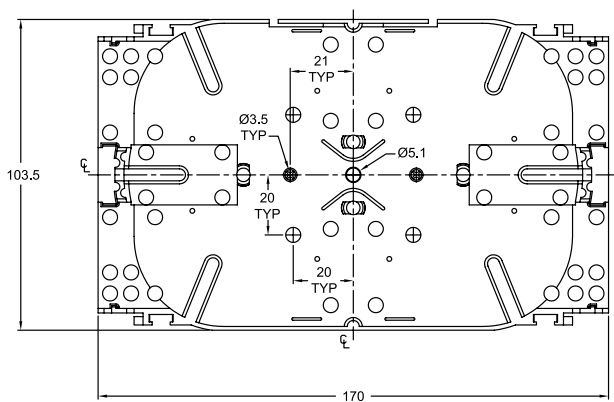
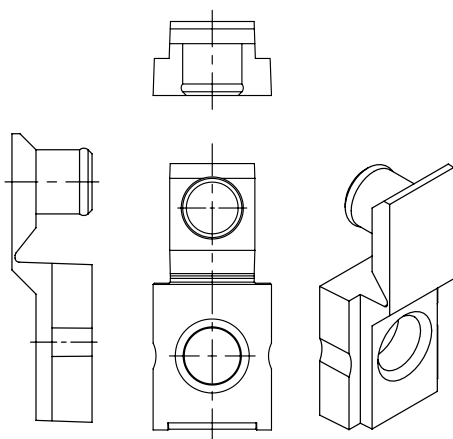


Fig. 4



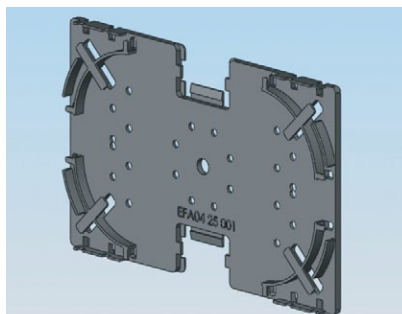
| Miniflex Technology Manufactured by Richco |                                                                                                 |                                         |           |               |      |
|--------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|---------------|------|
| Part No.                                   | Description                                                                                     | Material                                | Color     | Standard Pack | Fig. |
| OFST-1-L                                   | OF Splice Tray Lid                                                                              | PPE + PS Blend, RMS-105                 | Black     | 10            | 1    |
| OFST-1-M                                   | OF Splice Tray Managed with Radius Control & Dark Fiber Storage                                 | Glass-Filled UL94 V0 Nylon 6/6, RMS-18A |           |               | 2    |
| OFST-1-P                                   | OF Splice Tray Plain with Basic Storage Facility                                                |                                         |           |               | 3    |
| OFSTH-1-RED                                | OF Splice Tray Hinge                                                                            | PP, RMS-150 & TPE, RMS-182              | Red       | 20            | 4    |
| OFSTH-1-GRN                                | OF Splice Tray Hinge                                                                            |                                         | Green     |               |      |
| OFST-A-P-1                                 | Splice Tray Kit Includes:<br>1 x OFST-1-L<br>1 x OFST-1-P<br>2 x OFSTH-1-RED<br>2 x OFSTH-1-GRN | See above                               | See above | 10            | -    |

All dimensions in millimeters.



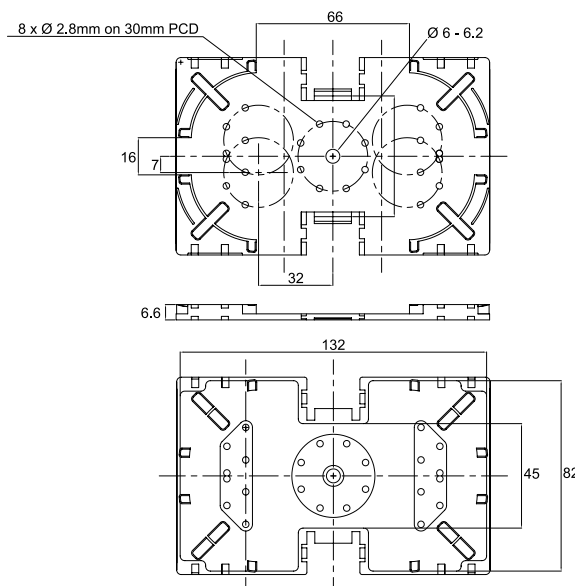
## EFA04 25 001

### Splice Tray



#### Features

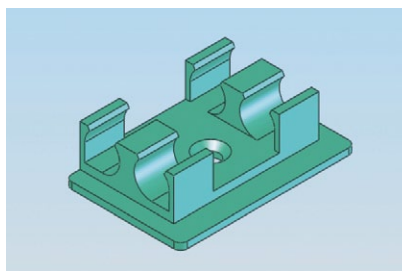
- Molded-in features maintain bend radius at 30mm
- Accepts Isolator Clips EFA04 61, 63 and 64 001 (shown below) for holding splicing components
- Accepts 16-way Fiber Clip EFA04 06 and 08 001 (page 171) broken into a 4-way segment for holding splicing components



|                                                                      |  |
|----------------------------------------------------------------------|--|
| A Europlus/Richco Product                                            |  |
| <b>Material: UL94 V0 Nylon 6, RMS-390; Color: Black</b>              |  |
| <b>Standard Pack: 50 per bag</b>                                     |  |
| EFA04 25 001                                                         |  |
| <b>Parts are available by special order only. 500 piece minimum.</b> |  |
| <b>All dimensions in millimeters.</b>                                |  |

## EFA04 6X

### Isolator Clips



#### Features

- Designed for use in the Array Tray EFA04 25 001 (shown above)
- Can be screw or rivet mounted or mounted with self adhesive pads, please see Section C
- EFA04 61 001 has anti-rotation pins to securely mount when using screw or rivet

Figure 1

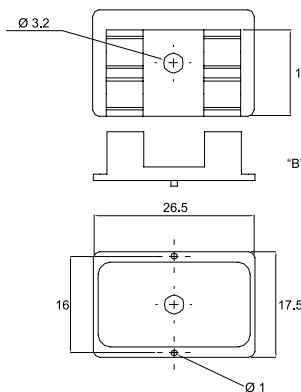
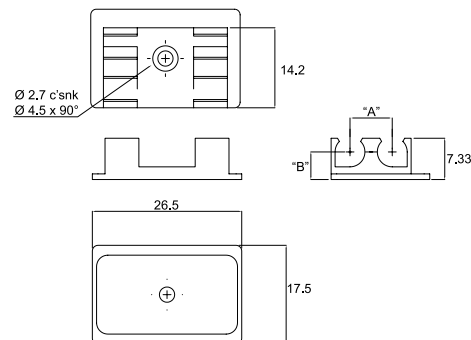


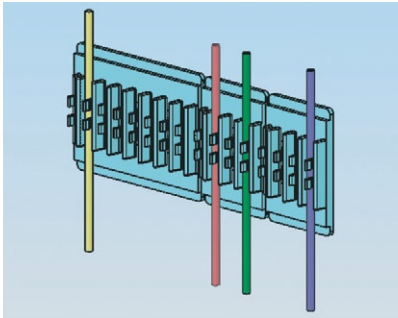
Figure 2



| A Europlus/Richco Product                             |                                       |        |     |     |        |
|-------------------------------------------------------|---------------------------------------|--------|-----|-----|--------|
| Material: UL94 V0 Nylon 6, RMS-390; Adhesive, RMS-143 |                                       |        |     |     |        |
| Standard Pack: 100 per bag                            |                                       |        |     |     |        |
| Part No.                                              | Contents                              | Color  | "A" | "B" | Figure |
| EFA04 61 001                                          | 6MM Isolator Clip                     | Red    | 6.9 | 5.3 | 1      |
| EFA04 61 ASS                                          | 6MM Isolator Clip with Adhesive Pad   |        |     |     |        |
| EFA04 63 001                                          | 5.5MM Isolator Clip                   | Green  | 7.5 | 4.9 | 2      |
| EFA04 63 ASS                                          | 5.5MM Isolator Clip with Adhesive Pad |        |     |     |        |
| EFA04 64 001                                          | 4.5MM Isolator Clip                   | Yellow | 8.5 | 5.3 |        |
| EFA04 64 ASS                                          | 4.5MM Isolator Clip with Adhesive Pad |        |     |     |        |
| All dimensions in millimeters.                        |                                       |        |     |     |        |

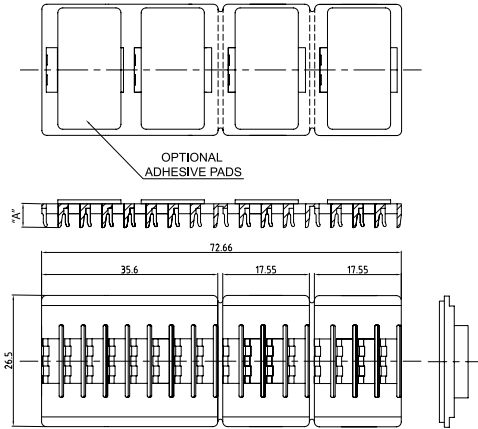
## EFA04 06/EFA04 08

### 16-Way Fiber Clips



#### Features

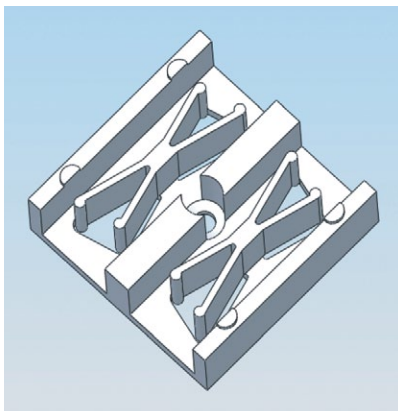
- Can be broken apart to form 3 individual clips holding 4, 4 and 8 components
- A broken apart 4-way can be used in the Splice Tray EFA04 25 001 (page 170)



|                                                      |                                         |       |     |
|------------------------------------------------------|-----------------------------------------|-------|-----|
| A Europlus/Richco Product                            |                                         |       |     |
| Material: UL94 V0 Nylon 6, RMS-390; Adhesive RMS-143 |                                         |       |     |
| Standard Pack: 100 per bag                           |                                         |       |     |
| Part No.                                             | Contents                                | Color | "A" |
| EFA04 06 001                                         | 16-way 3mm fiber clip                   | Black | 4.8 |
| EFA04 06 ASS                                         | 16-way 3mm fiber clip with adhesive pad |       |     |
| EFA04 08 001                                         | 16-way 2mm fiber clip                   | Blue  | 6.4 |
| EFA04 08 ASS                                         | 16-way 2mm fiber clip with adhesive pad |       |     |
| Available by special order only. 500 piece MOQ.      |                                         |       |     |
| All dimensions in millimeters.                       |                                         |       |     |

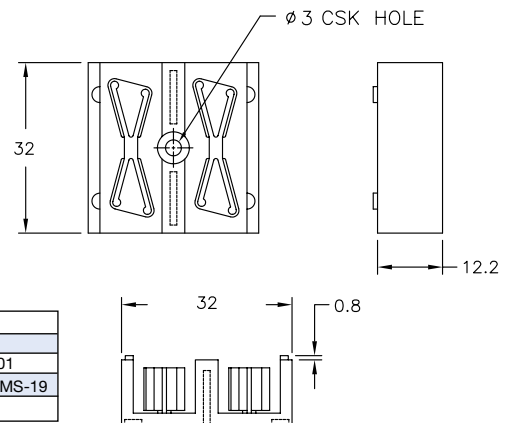
## OFSH-4

### Optical Fiber Splice Holder



#### Features

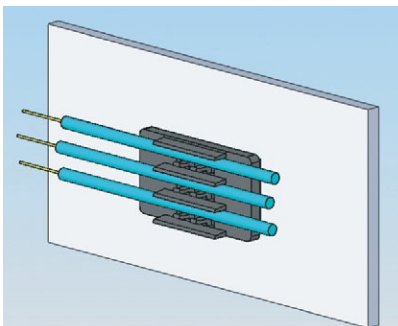
- Holds 12 x 2.7mm or 4 x 4.2mm splices
- Fastens with either a self-adhesive pad RMS-270, provided, or via a rivet



| <b>Color: Natural; Standard Pack: 50 per bag</b> |                           |
|--------------------------------------------------|---------------------------|
| Part No.                                         | Material                  |
| OFSH-4-1-01LA                                    | Nylon 6/6, RMS-01         |
| OFSH-4-1-19LA                                    | UL94 V0 Nylon 6/6, RMS-19 |
| <b>Dimensions in millimeters.</b>                |                           |

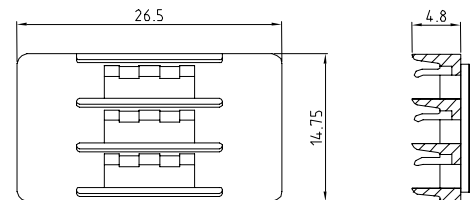
## EFA04 02 ASS

### Fiber Clip

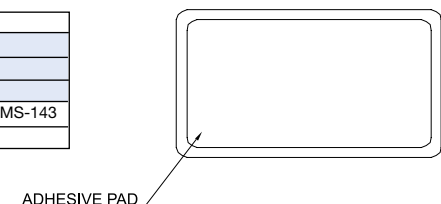


#### Features

- Designed to hold 3mm diameter fiber or components, i.e. couplers, splice protectors (OFSP on page 173), and WDM's



| A Europlus/Richco Product                              |                                           |
|--------------------------------------------------------|-------------------------------------------|
| <b>Material: UL94 V0 Nylon 6, RMS-390 Color: Black</b> |                                           |
| <b>Standard Pack: 100 per bag</b>                      |                                           |
| Part Number                                            | Contents                                  |
| EFA04 02 ASS                                           | 3mm fiber clip with adhesive pad, RMS-143 |
| <b>All dimensions in millimeters.</b>                  |                                           |

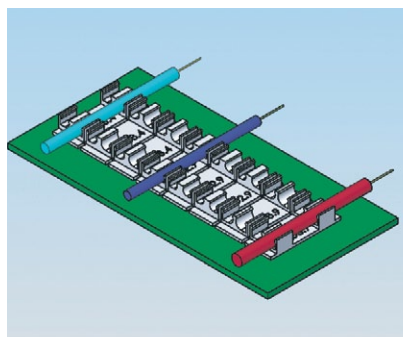




# FIBER MANAGEMENT

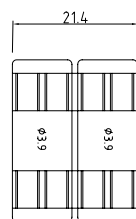
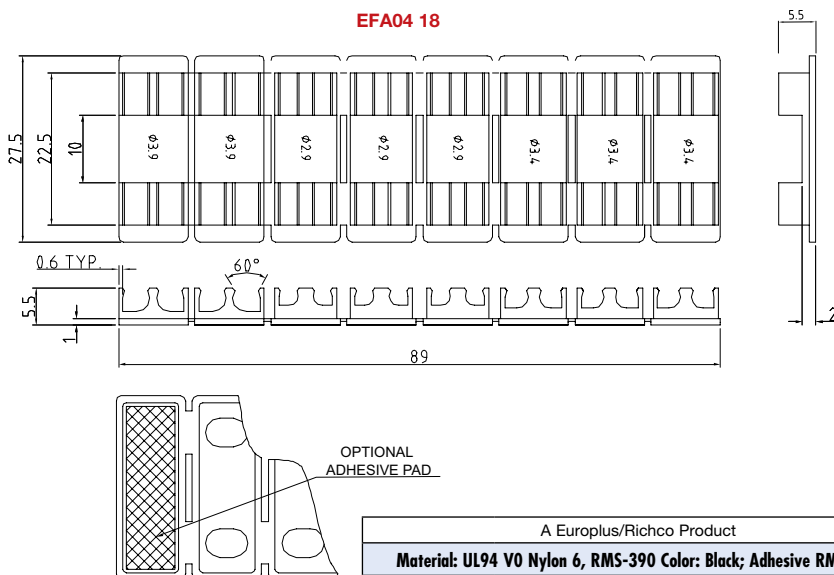
## EFA04 18/EFA04 71

### Coupler Clip

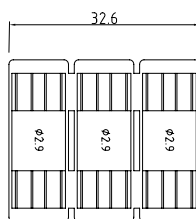


#### Features

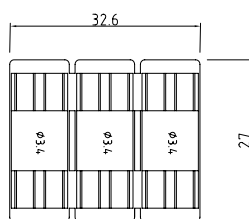
- EFA04 18 can be broken apart to form individual clips



**EFA04 71 X03**  
Ø3.9 Coupler Clip



**EFA04 71 X01**  
Ø2.9 Coupler Clip



**EFA04 71 X02**  
Ø3.4 Coupler Clip

| A Europlus/Richco Product                                         |                                                     |
|-------------------------------------------------------------------|-----------------------------------------------------|
| Material: UL94 V0 Nylon 6, RMS-390 Color: Black; Adhesive RMS-143 |                                                     |
| Standard Pack: 100 per bag                                        |                                                     |
| Part No.                                                          | Contents                                            |
| EFA04 18 001                                                      | 4-way 3.9mm, 6-way 3.4mm, 6-way 2.9mm coupler clips |
| EFA04 18 ASS                                                      | EFA04-18-001 with 8 adhesive pads                   |
| EFA04 71 001                                                      | 6-way 2.9mm coupler clip                            |
| EFA04 71 P01                                                      | EFA04-71-001 with 3 adhesive pads                   |
| EFA04 71 002                                                      | 6-way 3.4mm coupler clip                            |
| EFA04 71 P02                                                      | EFA04-71-002 with 3 adhesive pads                   |
| EFA04 71 003                                                      | 4-way 3.9mm coupler clip                            |
| EFA04 71 P03                                                      | EFA04-71-003 with 2 adhesive pads                   |
| Available by special order, 500 piece minimum.                    |                                                     |
| All dimensions in millimeters.                                    |                                                     |

## OFSH2-24 24-Way Splice Holder



Figure 1

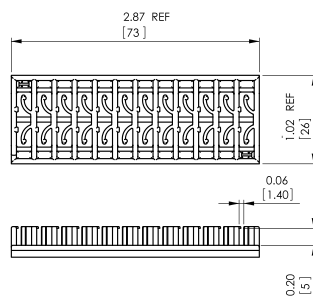
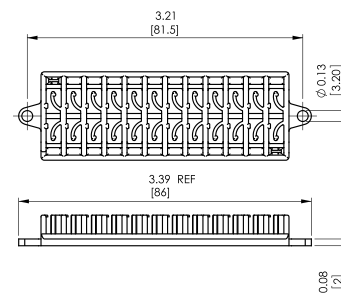


Figure 2



| Material: UL94 V0 Nylon, RMS-19 Color: Black |                                         | Standard pack: 50 per bag               |        |
|----------------------------------------------|-----------------------------------------|-----------------------------------------|--------|
| Part No.                                     | Mounting Method                         | Splice Protector Size After Heat Shrink | Figure |
| OFSH2-24-1                                   | 0.031 (0.8) Thick adhesive pad, RMS-375 | Up to 0.06 (1.6)                        | 1      |
| OFSH2-24-2                                   | No Adhesive                             |                                         | 2      |
| OFSH2-24-3                                   | M3 OR #4 Screw                          |                                         |        |

## OFSP/ROFSP

### Optical Fiber & Ribbon Fiber Splice Protector

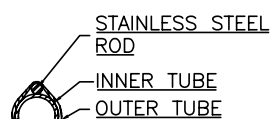
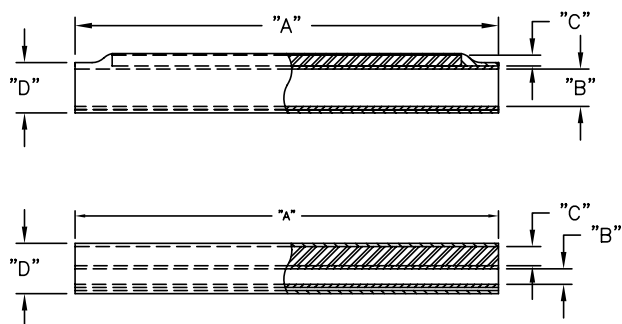
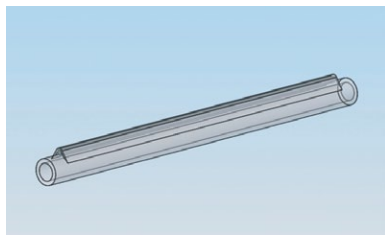


Fig. 1

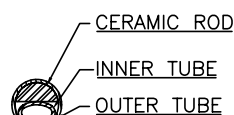


Fig. 2

Material: Outer Tube - Heatshrink 3:1 Ratio Polyolefin, RMS-225  
Inner Tube - PE Copolymer Adhesive, RMS-226; Color: Clear  
Rod - OFSP - SS, RMS-227; ROFSP - Ceramic, RMS-170

Standard Pack: 100 per bag

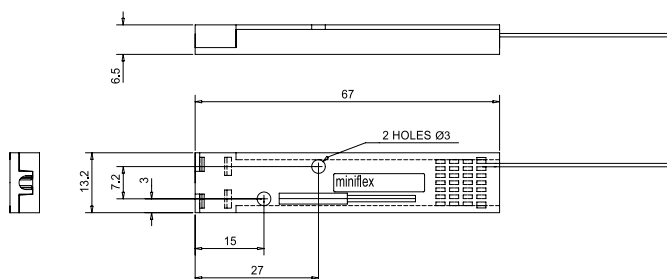
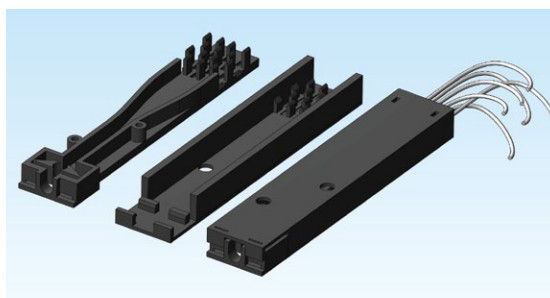
| Standard Price: 100 per bag                                       |                                |                  |                   |                      |        |  |
|-------------------------------------------------------------------|--------------------------------|------------------|-------------------|----------------------|--------|--|
| Part No.                                                          | "A" Nominal Sleeve Length Ref. | "B" Inner Tube Ø | "C" Nominal Rod Ø | "D" Recovered Ø Ref. | Figure |  |
| OFSP-10-25                                                        | 25                             | 1.5              | 1                 | 2.4                  | 1      |  |
| OFSP-10-30                                                        | 30                             |                  |                   |                      |        |  |
| OFSP-10-35                                                        | 35                             |                  |                   |                      |        |  |
| OFSP-10-40                                                        | 40                             |                  |                   |                      |        |  |
| OFSP-10-45                                                        | 45                             |                  |                   |                      |        |  |
| OFSP-10-61                                                        | 61                             |                  |                   |                      |        |  |
| OFSP-15-40                                                        | 40                             | 0.5              | 1.5               | 2.8                  | 2      |  |
| OFSP-15-61                                                        | 61                             |                  | 0.8               | 1.6                  |        |  |
| OFSP-08-25                                                        | 25                             |                  |                   |                      |        |  |
| OFSP-08-40                                                        | 40                             |                  |                   |                      |        |  |
| ROFSP-40-40                                                       | 40                             | 3.6 X 1          | 4 X 1.8           | 5 X 3                | 2      |  |
| Other colors available by special order only, 1000 piece minimum. |                                |                  |                   |                      |        |  |
| All dimensions in millimeters.                                    |                                |                  |                   |                      |        |  |

Other colors available by special order only, 1000 piece minimum.

All dimensions in millimeters.

## OFFM

### Optical Fiber Flat Manifold



#### Features

- Maximum of 12 fibers
- A range of flanged termination crimp kits (OFTK Series) are available to give a strong, mechanical anchorage for common size element/blown fiber tubing and OFBLT.

#### Description

The Optical Fiber Flat Manifold has the ability to breakout and protect primary fiber from cable element tubing, ribbon fiber or a blown fiber unit. The input fiber tube is secured by a clamping system molded into the product. Each output fiber is protected in a 900 µm PTFE tube, also secured by a molded detail.

Patented Miniflex Technology

Material: Glass-filled UL94 V0 PBT, RMS-290 Color: Gray

Standard Pack: 10 per bag

| Part No.  | Each Bag Supplied With:                                                                                                                     |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------|
| OFFM      | 10 Manifolds, No Tubing                                                                                                                     |
| OFFM-1-12 | 10 Manifolds<br>120M coil PTFE-1-120-NAT<br>10 x 30mm long silicone tube<br>10 x 15mm long silicone tube<br>10 pieces PE foam adhesive tape |

All dimensions in millimeters.

Material: PTFE UL94 V0; Color: Natural; RMS-291

Standard Pack: 120 meter coil per bag

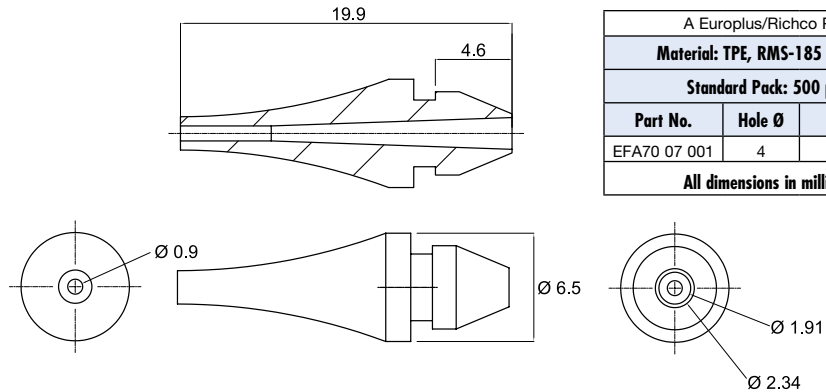
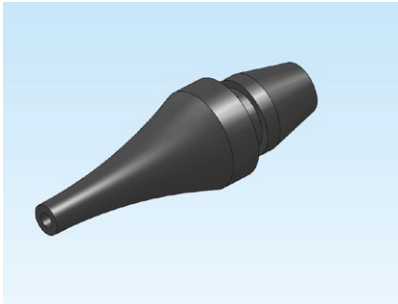
PTFE-1-120-NAT

Other colors are available by special order.

# FIBER MANAGEMENT

## EFA70 07 001

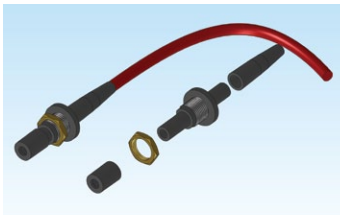
Strain Relief Boot  
900 Micron Fiber



| A Europlus/Richco Product           |        |                 |
|-------------------------------------|--------|-----------------|
| Material: TPE, RMS-185 Color: Black |        |                 |
| Standard Pack: 500 per bag          |        |                 |
| Part No.                            | Hole Ø | Panel Thickness |
| EFA70 07 001                        | 4      | 1.6             |
| All dimensions in millimeters.      |        |                 |

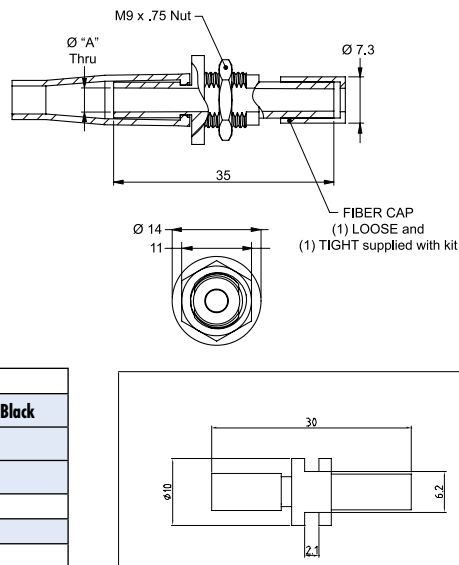
## EFA52 XX ASS

Quick Panel Mount Strain  
Relief Gland



### Features

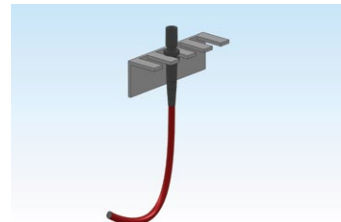
- Provides added protection to jacketed and bare fiber while routed through a hole



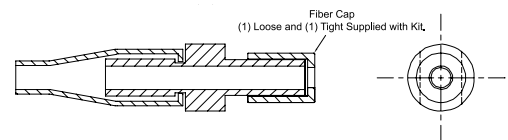
| A Europlus/Richco Product                        |     |
|--------------------------------------------------|-----|
| Material: UV94 V0 Nylon 6, RMS-390; Color: Black |     |
| Standard Pack: 250 per bag                       |     |
| Part Number                                      | "A" |
| EFA52 02 ASS                                     | 3.5 |
| EFA52 05 ASS                                     | 2.5 |
| All dimensions in millimeters                    |     |

## EFA52 03 ASS

Quick Panel Mount Strain  
Relief Gland, Slot in Version

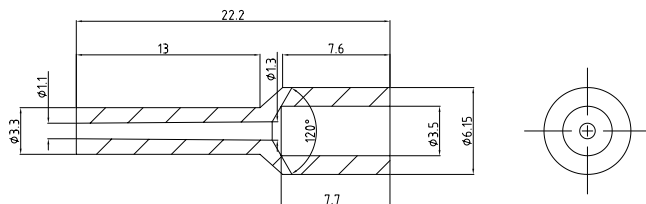


|                                                  |  |
|--------------------------------------------------|--|
| A Europlus/Richco Product                        |  |
| Material: UL94 V0 Nylon 6, RMS-390; Color: Black |  |
| Standard Pack: 250 per bag                       |  |
| EFA52 03 ASS                                     |  |
| All dimensions in millimeters                    |  |



## EFA70-01-001

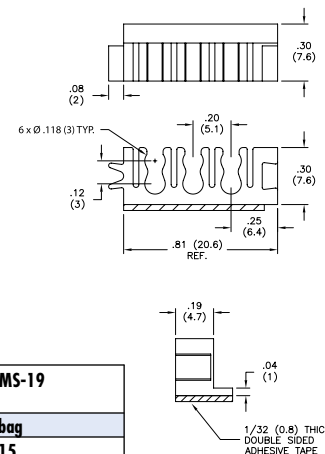
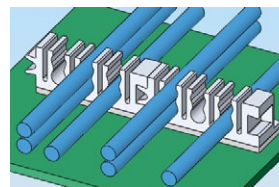
900 Micron Boot



| A Europlus/Richco Product                                       |       |
|-----------------------------------------------------------------|-------|
| Material: TPE, RMS-185                                          |       |
| Standard Pack: 500 per bag                                      |       |
| Part Number                                                     | Color |
| EFA70 01 001                                                    | Black |
| All dimensions in millimeters                                   |       |
| Parts are available by special order only. 1,000 piece minimum. |       |
| Other Colors available by Special Order.                        |       |

## OFEB-3-19

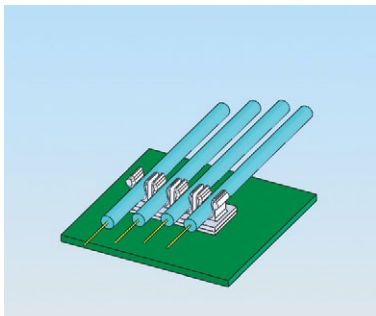
Optical Fiber Expandable Bracket



|                                 |  |
|---------------------------------|--|
| Material: UL94 V0 Nylon, RMS-19 |  |
| Color: Natural                  |  |
| Standard Pack: 1,000 per bag    |  |
| Adhesive Backing, RMS-15        |  |

## OFHB3-4-19A-RT

Optical Fiber Holder on Base, 3mm

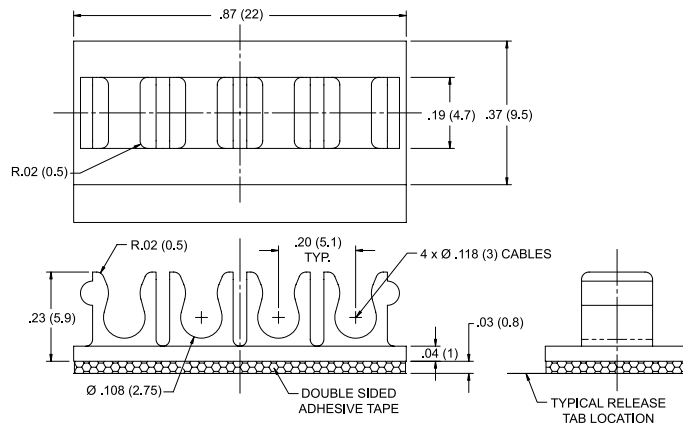


Material: UL94 V0 Nylon, RMS-19

Color: Natural

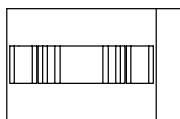
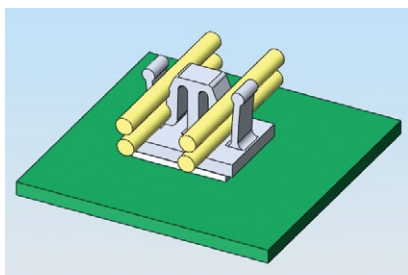
Standard Pack: 1,000 per bag

Adhesive Backing, RMS-15



## OFHB2-4A1-RT-19

Optical Fiber Holder on Base, 2mm

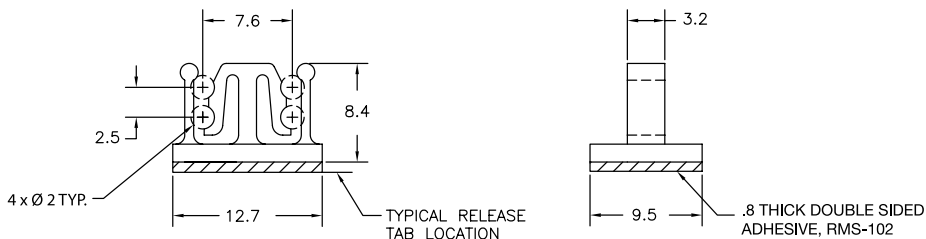


Material: Nylon 6/6, RMS-19

Color: Natural

Standard Pack: 1,000 per bag

All dimensions in millimeters



## OFB-BH

Optical Fiber Bracket, Blind Hole

Fig. 1

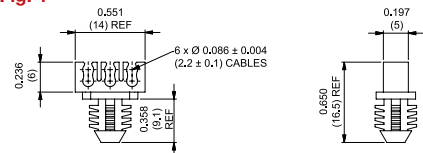
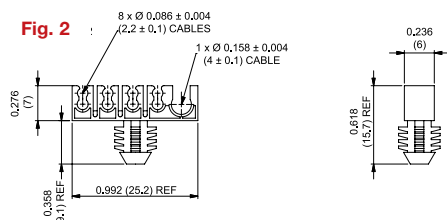
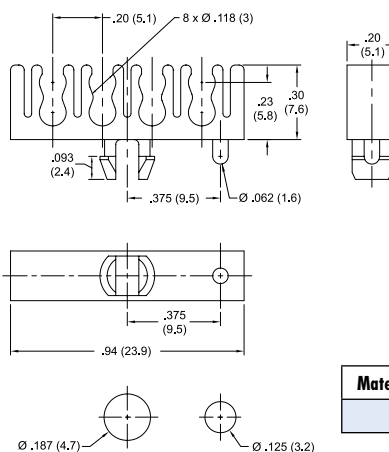


Fig. 2



## OFB3P-4-19

Optical Fiber Bracket, 3mm, Plug-In, 4 Slot



### Features

- Anti-rotation pin prevents fiber kinking due to bracket turning in the mounting hole

Material: Nylon 6/6 UL94 V0, RMS-19; Color: Natural

Standard Pack: 1,000 per bag

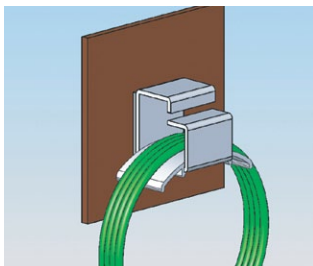
| Part No.    | Hole Dia.     | Panel Thickness   | Fig. |
|-------------|---------------|-------------------|------|
| OFB-BH-6-19 | 0.312 ± 0.002 | 0.250 (6.35) Min. | 1    |
| OFB-BH-9-19 | (7.92 ± 0.05) |                   | 2    |

NEW

# FIBER MANAGEMENT

## OFCC/OF CG

### Optical Fiber Coiling Clip



#### Features

- Two extruded clips snap into each other to form a clip with a smooth, curved surface to accommodate fiber optic bundles

Fig. 1

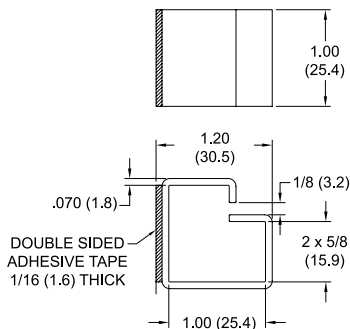
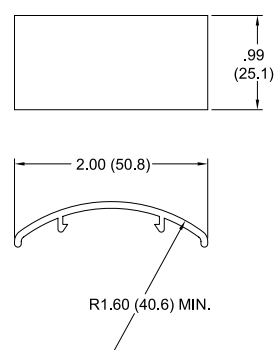


Fig. 2



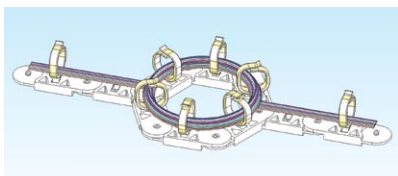
Material: Rigid PVC, RMS-04; Adhesive, RMS-15; Color: Black

Standard Pack: 100 per bag

| Part Number | Figure |
|-------------|--------|
| OFCC-16A-RT | 1      |
| OF CG-16    | 2      |

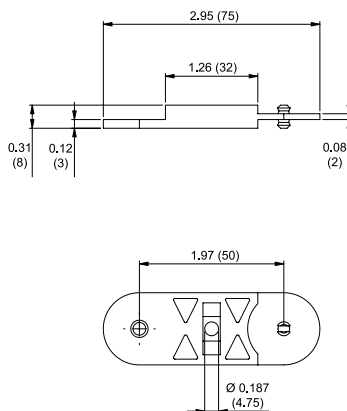
## OF CP-50-19

### Chain Plate



#### Features

- Complete the circle for an excess fiber spool to form a "Y" for breakout points
- All connections maintain a bend radius greater than 30mm



Material: UL94 V0 Nylon 6/6; RMS-19; Color: Natural

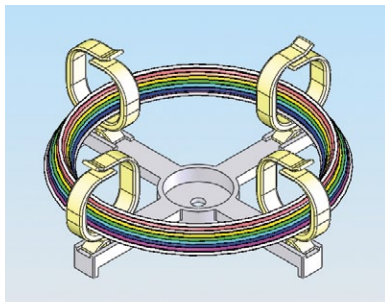
Standard Pack: 500 per bag

OF CP-50-19

Parts are available by special order only. 1,000 piece minimum.

## OF SB

### Optical Fiber Support Base

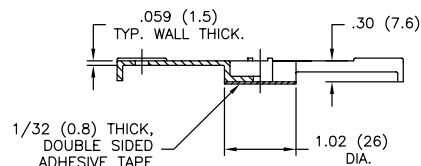
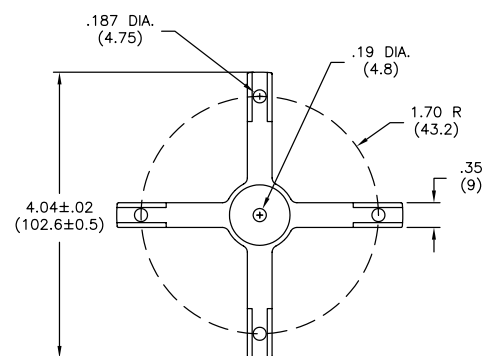


#### Features

- Designed for use in fiber optic patch panel applications

| Mounting Rivets For The OF SB |                        |                       |
|-------------------------------|------------------------|-----------------------|
| Part No.                      | Hole Dia.              | Panel Thickness Range |
| SR-5045                       | .201-.205<br>(5.1-5.2) | .059-.098 (1.5-2.5)   |
| SR-5055                       |                        | .098-.138 (2.5-3.5)   |
| SR-5065                       |                        | .138-.177 (3.5-4.5)   |
| SR-5075                       |                        | .177-.217 (4.5-5.5)   |
| SR-5085                       |                        | .217-.256 (5.5-6.5)   |
| SR-5095                       |                        | .256-.295 (6.5-7.5)   |
| SR-5105                       |                        | .295-.335 (7.5-8.5)   |

See page 47



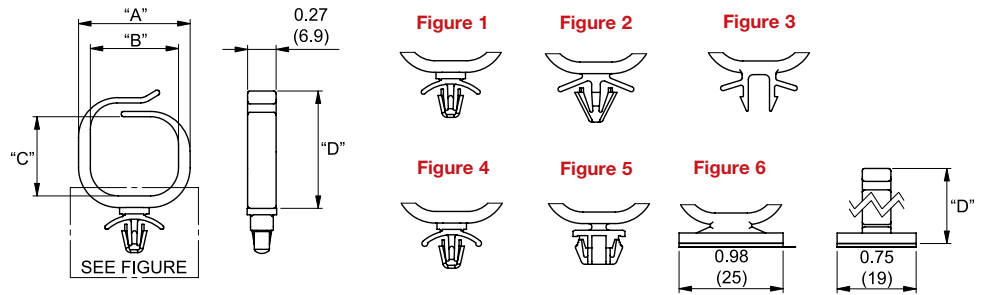
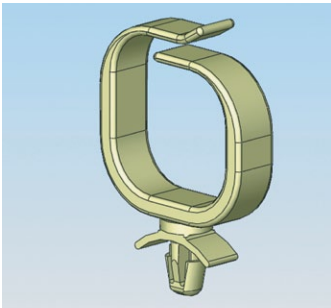
| Standard Pack: 100 per bag                            |                                                       |                       |
|-------------------------------------------------------|-------------------------------------------------------|-----------------------|
| Material: UL94 V2 Nylon 6/6, RMS-01<br>Color: Natural | Material: UL94 V0 Nylon 6/6, RMS-19<br>Color: Natural | Mounting Method       |
| OF SB-4-85-01A                                        | OF SB-4-85-19A                                        | Adhesive tape, RMS-15 |
| OF SB-4-85-01                                         | OF SB-4-85-19                                         | Screw or Rivet Mount  |



**Richco**

## OFNS

### Optical Fiber Network Saddle

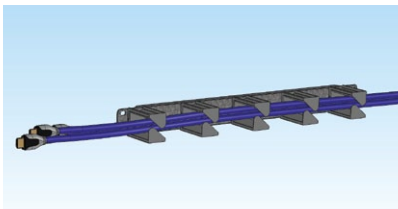


| UL94 V2 Nylon 6/6,<br>RMS-01<br>Color: Natural                                               | UL94 V0 Nylon 6/6,<br>RMS-19<br>Color: Natural | "A" Ref.    | "B" Ref.    | "C" Ref.   | "D" Ref.    | Mounting Hole                    | Panel Thickness         | Style | Standard Pack |
|----------------------------------------------------------------------------------------------|------------------------------------------------|-------------|-------------|------------|-------------|----------------------------------|-------------------------|-------|---------------|
| OFNS-13-187-01                                                                               | OFNS-13-187-19                                 | 1.06 (26.8) | .83 (21.2)  | .75 (19)   | 1.11 (28.2) | .187 (4.75)                      | .031 - .079 (0.8 - 2)   | 1     | 1000          |
| OFNS-13-312-01                                                                               | OFNS-13-312-19                                 |             |             |            |             | .312 (7.92)                      | .031 - .063 (0.8 - 1.6) | 2     |               |
| OFNS-13-250-01                                                                               | OFNS-13-250-19                                 |             |             |            |             | .250 (6.35)                      | .031 - .079 (0.8 - 2)   | 4     |               |
| OFNS-13-S9.5M-01                                                                             | OFNS-13-S9.5M-19                               |             |             |            |             | .374 (9.5) Square                |                         | 5     |               |
| OFNSB-13-01A-RT                                                                              | OFNSB-13-19A-RT                                |             |             |            | 1.29 (32.7) | .03 (0.8) thick adhesive, RMS-15 |                         | 6     |               |
| OFNS-16-187-01                                                                               | OFNS-16-187-19                                 | 1.35 (34.3) | 1.13 (28.7) | .99 (25.1) | 1.35 (34.4) | .187 (4.75)                      | .031 - .079 (0.8 - 2)   | 1     | 1000          |
| OFNS-16-312-01                                                                               | OFNS-16-312-19                                 |             |             |            |             | .312 (7.92)                      | .031 - .063 (0.8 - 1.6) | 2     |               |
| OFNS-16-S307-01                                                                              | OFNS-16-S307-19                                |             |             |            |             | .307 (7.8) Square                | .031 - .079 (0.8 - 2)   | 3     |               |
| OFNS-16-S9.5M-01                                                                             | OFNS-16-S9.5M-19                               |             |             |            |             | .374 (9.5) Square                |                         | 5     |               |
| OFNSB-16-01A-RT                                                                              | OFNSB-16-19A-RT                                |             |             |            | 1.53 (38.9) | .03 (0.8) thick adhesive, RMS-15 |                         | 6     | 500           |
| OFNS-28-S9.5M-01                                                                             | OFNS-28-S9.5M-19                               | 1.693 (43)  | 1.38 (35)   | 1.733 (44) | 2.17 (55)   | .374 (9.5) Square                | .031 - .079 (0.8 - 2)   | 5     |               |
| Available in black color by special order. To order, add "BK" to the end of the part number. |                                                |             |             |            |             |                                  |                         |       |               |

Available in black color by special order. To order, add "BK" to the end of the part number.

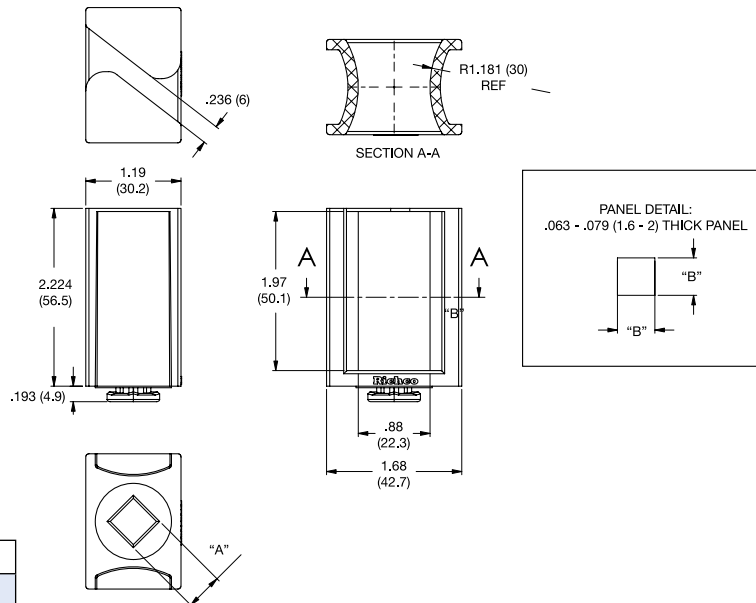
## OFRB

### Optical Fiber Rack Bracket



#### Features

- Mounts into a 19" rack with a 1/4 turn



| Material: UL94 V0 Nylon, RMS-19 |             | Standard Pack: 250 per Bag |
|---------------------------------|-------------|----------------------------|
| Part No.                        | "A"         | "B"                        |
| OFRB-1BK                        | .461 (11.7) | .465 (11.8)                |
| OFRB-2BK                        | .366 (9.3)  | .374 (9.5)                 |

Color: Black

# FIBER MANAGEMENT

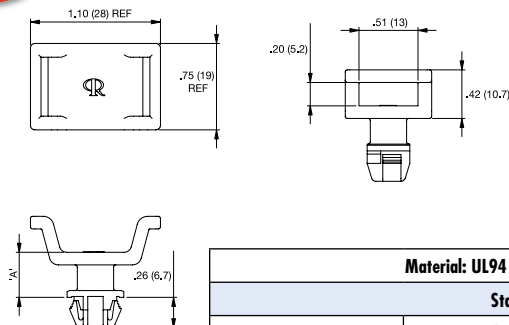
## FTH-27-1

Flat Tie Holder for  
Kwik Wrap / Hook & Loop



### Features

- Mounts RKW series Hook & Loop Fiber & Cable Ties (see page 107)



| Material: UL94 V2 Nylon 6/6 RMS-01*, Color: Black |                                 |                 |          |
|---------------------------------------------------|---------------------------------|-----------------|----------|
| Standard Pack: 500 per bag                        |                                 |                 |          |
| Part No.                                          | Mounting Hole $\pm .003$ (0.08) | Panel Thickness | "A"      |
| FTH-27-1-01BK                                     | .37 (9.5) Square                | .03-.08 (0.8-2) | .12 (3)  |
| FTH-27-2-01BK                                     |                                 |                 | .39 (10) |

\*Available in UL94 V0 material by special order. To order, replace -01 with -19.

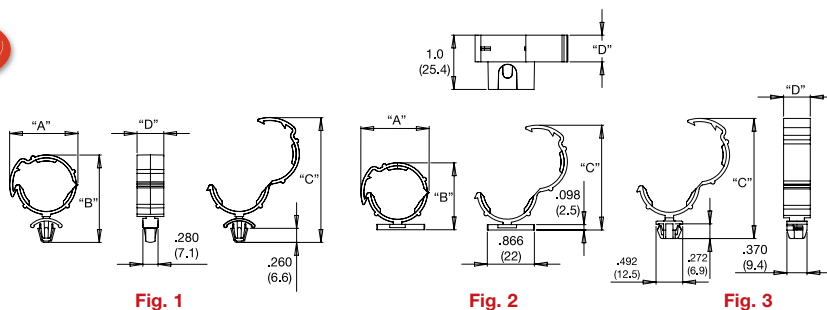
## SHR-C

Harness Wrap Clip



### Features

- Mounts SHR series harness wrap for managing fiber & cables (see page 164)

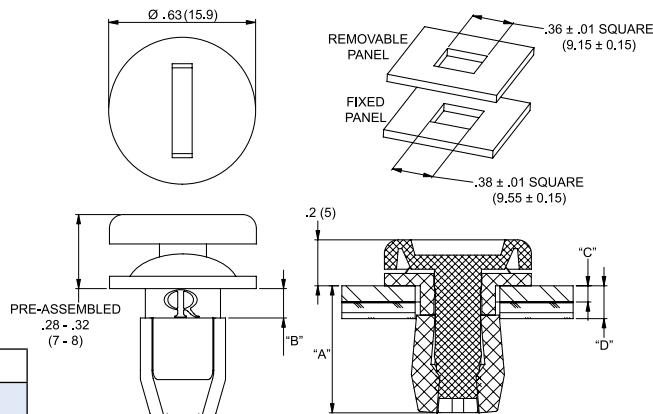
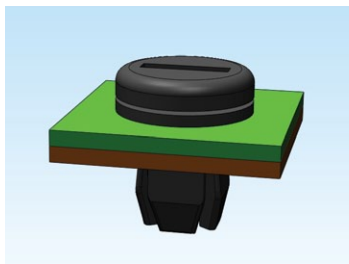


| Material: Nylon 6/6, RMS-01*, Color: Black |           |             |           |            |                                                     |                                                                                     |     |
|--------------------------------------------|-----------|-------------|-----------|------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----|
| Standard Pack: 500 per bag                 |           |             |           |            |                                                     |                                                                                     |     |
| Part No.                                   | "A" Ref   | "B" Ref     | "C" Ref   | "D"        | Bundle dia.                                         | Mounting Method                                                                     | Fig |
| SHR-C1                                     | 1.14 (29) | 1.67 (42.5) | 2.28 (58) | .49 (12.5) | To hold Richco Harness Wrap SHR-20 and SHR-25 sizes | Snap Lock into a .252 $\pm$ .002 (6.4 $\pm$ 0.05) Hole in a .031-.079 (0.8-2) Panel | 1   |
| SHR-C2                                     | 1.18 (30) | 1.28 (32.5) | 1.85 (47) |            |                                                     | #8 or M4 Screw                                                                      | 2   |
| SHR-C3                                     |           | 1.63 (40.5) | 2.21 (56) |            |                                                     | .03 (0.8) Thick Double Sided Adhesive Tape, RMS-375                                 | 2   |
| SHR-C4                                     |           |             |           |            |                                                     | Snap Lock into a .37 (9.5 $\pm$ 0.8) Square Hole in a .031-.079 (0.8-2) Panel       | 3   |

\*Parts are available in UL94 V0 material by special order only. To order, add -19 to the end of the part number.

## QTPF

Quarter Turn Panel Fastener



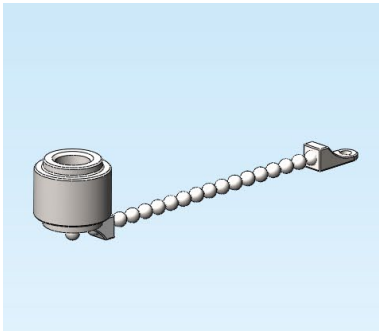
| Material: UL94 HB Acetal, RMS-14 Color: Black |            |           |                               | Standard Pack: 100 per bag |
|-----------------------------------------------|------------|-----------|-------------------------------|----------------------------|
| Part No.                                      | "A"        | "B"       | Removable Panel Thickness "C" | Total Panel Thickness "D"  |
| QTPF-1BK                                      | .48 (12.3) | .07 (1.7) | .02-.06 (0.5-1.6)             | .08-.02 (2-5)              |
| QTPF-2BK                                      | .54 (13.7) | .12 (3.1) | .07-.12 (1.8-3.1)             | .16-.24 (4-6.2)            |

White color available by special order. To order replace BK with WH.



## EFA02

### Dust Caps with Metal Chain



#### Features

- The mounting hole for EFA02 14 is a blind hole and does not expose the adapter/connector and can be used on its own. Other dust caps in this series require the retaining chain and cannot be sold separately, as this leaves a hole exposing the connector/adapter.



EFA02 04 ASS  
SMA Adapter Dust Cap  
Assembly



EFA02 09 ASS  
FC Adapter Dust Cap Assembly

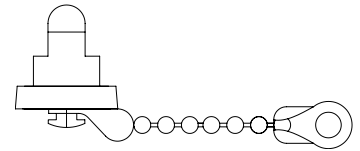


EFA02 07 ASS  
DIN Adapter Dust Cap  
Assembly



EFA02 10 ASS  
ST Adapter Dust Cap Assembly

### Typical Assembly for EFA02 Series Dust Caps with Metal Chains

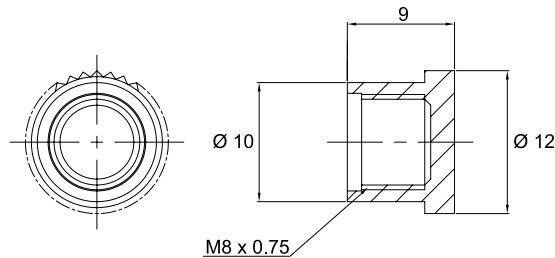


EFA02 14 ASS  
SC Adapter Dust Cap Assembly

| A Europlus/Richco Product                                            |                             |
|----------------------------------------------------------------------|-----------------------------|
| <b>Material: Cap &amp; Chain - Stainless Steel</b>                   |                             |
| <b>Standard Pack: 100 per bag</b>                                    |                             |
| Part No.                                                             | Contents                    |
| EFA02 04 ASS                                                         | EFA02 04 Dust Cap and Chain |
| EFA02 07 ASS                                                         | EFA02 07 Dust Cap and Chain |
| EFA02 09 ASS                                                         | EFA02 09 Dust Cap and Chain |
| EFA02 10 ASS                                                         | EFA02 10 Dust Cap and Chain |
| <b>Parts are available by special order only. 500 piece minimum.</b> |                             |

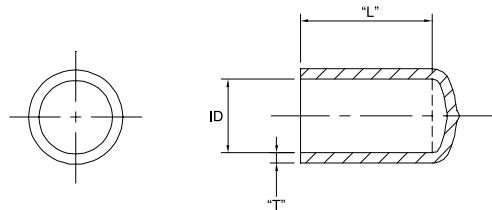
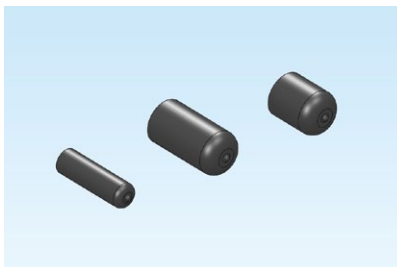
| A Europlus/Richco Product                                                 |                                  |
|---------------------------------------------------------------------------|----------------------------------|
| <b>Material: Cap - TPE, RMS-185 Color: Black; Chain - Stainless Steel</b> |                                  |
| <b>Standard Pack: 250 per bag</b>                                         |                                  |
| Part No.                                                                  | Contents                         |
| EFA02 14 001                                                              | SC Adapter Dust Cap              |
| EFA02 14 ASS                                                              | EFA02 14 001 Dust Cap with Chain |

## EFA02 03 XXX FC Adapter Dust Cap



| A Europlus/Richco Product            |         |
|--------------------------------------|---------|
| <b>Material: HDPE, RMS-183</b>       |         |
| <b>Standard Pack: 500 per bag</b>    |         |
| Part Number                          | Color   |
| EFA02 03 001                         | Natural |
| EFA02 03 002                         | Black   |
| EFA02 03 003                         | Green   |
| EFA02 03 004                         | White   |
| EFA02 03 005                         | Red     |
| <b>All dimensions in millimeters</b> |         |

## EFA02 43 XXX Adapter Dust Cap

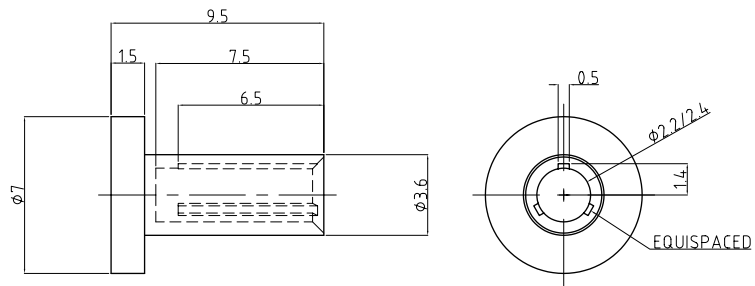
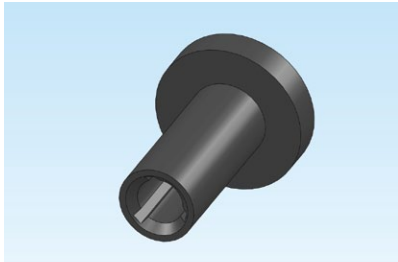


| A Europlus/Richco Product                        |                                |      |     |                 |
|--------------------------------------------------|--------------------------------|------|-----|-----------------|
| Material: PVC, RMS-187 Color: Black              |                                |      |     |                 |
| Standard Pack: 500 per bag                       |                                |      |     |                 |
| Part No.                                         | Contents                       | "L"  | ID  | "T" At Open End |
| EFA02 43 001                                     | SMA Connector Adapter Dust Cap | 12.7 | 3   | 1               |
| EFA02 43 002                                     | ST Adapter Dust Cap            |      | 7.1 |                 |
| EFA02 43 003                                     | FC Adapter Dust Cap            | 8    |     |                 |
| Available by special order only, 1000 piece MOQ. |                                |      |     |                 |
| All dimensions in millimeters.                   |                                |      |     |                 |

# FIBER MANAGEMENT

## EFA02 52 001

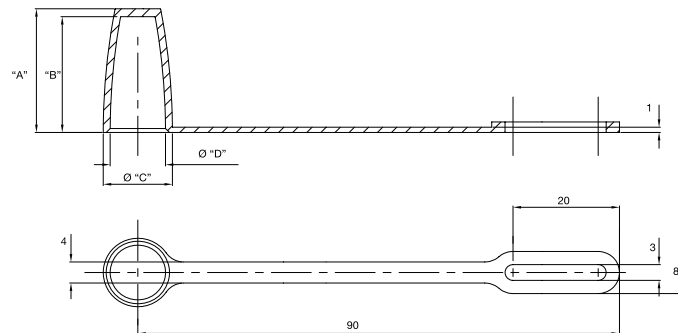
Ø 2.5mm Ferrule Dust Cap



|                                                                        |
|------------------------------------------------------------------------|
| A Europlus/Richco Product                                              |
| <b>Material: TPE, RMS-185; Color: Black</b>                            |
| <b>Standard Pack: 500 per bag</b>                                      |
| EFA02 52 001                                                           |
| <b>All dimensions in millimeters</b>                                   |
| <b>Parts are available by special order only. 1,000 piece minimum.</b> |

## EFA02

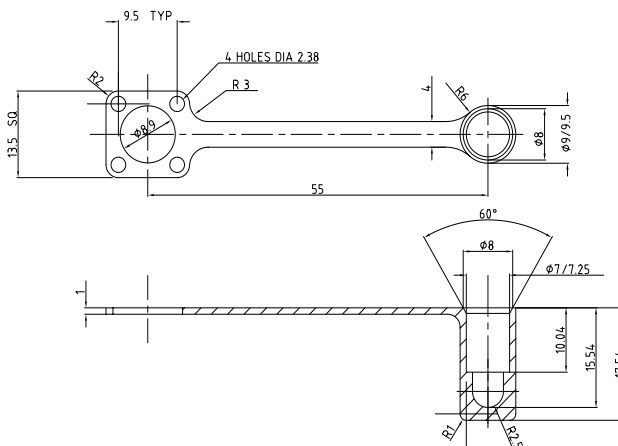
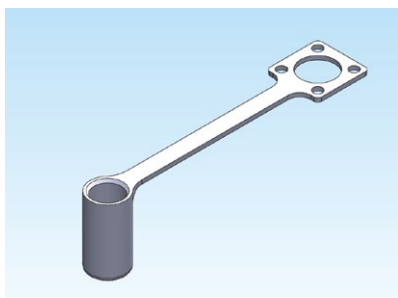
One-Piece Dust Cap and Tie



| A Europlus/Richco Product                                            |                                       |      |     |      |      |
|----------------------------------------------------------------------|---------------------------------------|------|-----|------|------|
| <b>Material: PVC, RMS-186; Color: Black</b>                          |                                       |      |     |      |      |
| <b>Standard Pack: 250 per bag</b>                                    |                                       |      |     |      |      |
| Part No.                                                             | Contents                              | "A"  | "B" | "C"  | "D"  |
| EFA02 08 ASS                                                         | One-Piece Biconic Dust Cap & Tie      | 23.5 | 22  | 13   | 10.4 |
| EFA02 11 ASS                                                         | One-Piece FC/ST Dust Cap & Tie        | 18.5 | 17  | 12   | 8.7  |
| EFA02 13 ASS                                                         | One-Piece ST Connector Dust Cap & Tie |      |     | 15.3 | 12   |
| <b>Parts are available by special order only. 500 piece minimum.</b> |                                       |      |     |      |      |
| <b>All dimensions in millimeters</b>                                 |                                       |      |     |      |      |

## EFA02 35 001

One-Piece ST Adapter  
Dust Cap and Tie



|                                             |
|---------------------------------------------|
| A Europlus/Richco Product                   |
| <b>Material: TPE, RMS-185; Color: Black</b> |
| <b>Standard Pack: 250 per bag</b>           |
| EFA02 35 001                                |
| <b>All dimensions in millimeters</b>        |

J

## BPE Blanking Plugs

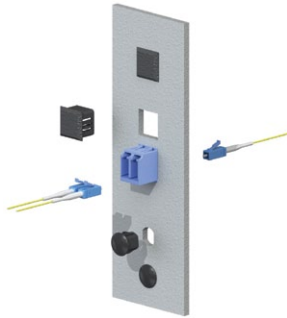


Fig. 1

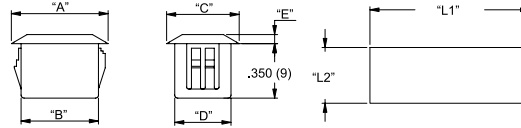
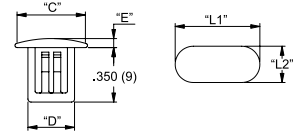


Fig. 2



### Features

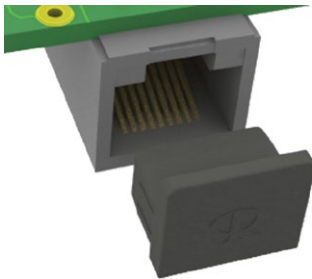
- ST Series covers "Double-D," "D" or round hole cutouts for unused terminals in fiber optic boxes

NEW

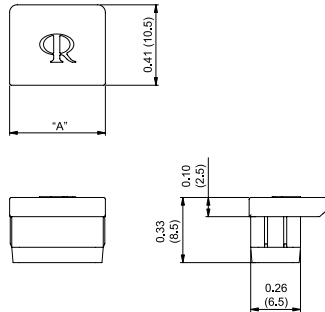
| Material: UL94 V2 Nylon 6/6, RMS-01               |             |            |            |            |            |               |                                                 |                         |             |            |
|---------------------------------------------------|-------------|------------|------------|------------|------------|---------------|-------------------------------------------------|-------------------------|-------------|------------|
| Standard Pack: 1,000 per bag                      |             |            |            |            |            |               |                                                 |                         |             |            |
| Part No.                                          | "A"         | "B"        | "C"        | "D"        | "E"        | Hole Size     |                                                 | Panel Thickness         | Color       | Fig.       |
|                                                   |             |            |            |            |            | "L1"          | "L2"                                            |                         |             |            |
| BPE-SC-1-01                                       | .85 (21.5)  | .50 (12.8) | .47 (12)   | .37 (9.3)  | .059 (1.5) | .512 (13)     | .374 (9.5)                                      | .550 - .138 (1.4 - 3.5) | Black       | 1          |
| BPE-SC-2-01                                       | .63 (16)    |            |            |            |            | 1.024 (26)    |                                                 |                         |             |            |
| BPE-SC-3-01                                       | 1.37 (34.8) |            |            |            |            | 1.02 (25.8)   |                                                 |                         |             |            |
| BPE-RJ45-01                                       | .87 (22)    | .58 (14.7) | .70 (17.7) | .75 (19.1) | .078 (2)   | .59 (14.9-15) | .030,.050,.060,.110, .140 (.75,1.2,1.6,2.7,3.5) | Grey                    |             |            |
| BPE-LC-D-01                                       | .59 (15)    | .52 (13.2) | .59 (15)   | .52 (13.2) |            | .532 (13.5)   |                                                 |                         | .532 (13.5) |            |
| BPE-ST-1-01                                       | Ø.47 (12)   | Ø.36 (9.2) | Ø.47 (12)  | .30 (7.7)  |            | .059 (1.5)    |                                                 |                         | Ø.37 (19.4) | .311 (7.9) |
|                                                   |             |            |            |            |            |               |                                                 | .055 - .138 (1.4 - 3.5) | 2           |            |
| Other colors are available by special order only. |             |            |            |            |            |               |                                                 |                         |             |            |

Other colors are available by special order only.

## CP-RJ RJ Connector Plugs



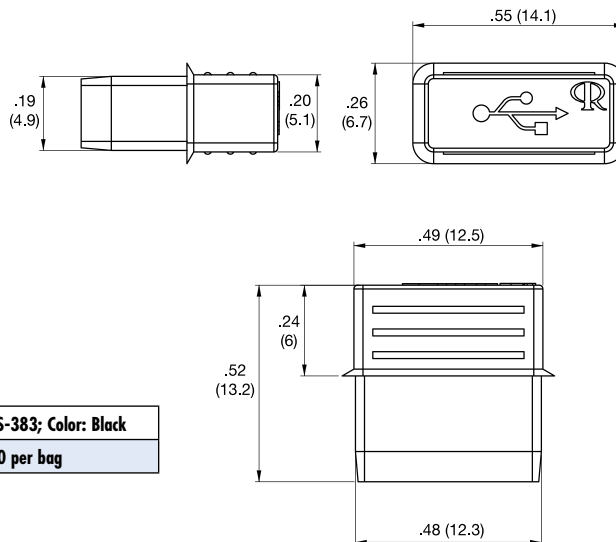
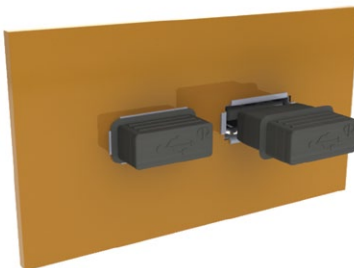
NEW



| Material: Silicone Rubber, RMS-383; Color: Black |            |                |
|--------------------------------------------------|------------|----------------|
| Standard Pack:1000 per bag                       |            |                |
| Part No.                                         | "A"        | To Accommodate |
| CP-RJ11                                          | .41 (10.5) | RJ11 Connector |
| CP-RJ45                                          | .49 (12.5) | RJ45 Connector |

## CP-USB-A USB-A Connector Plugs

NEW



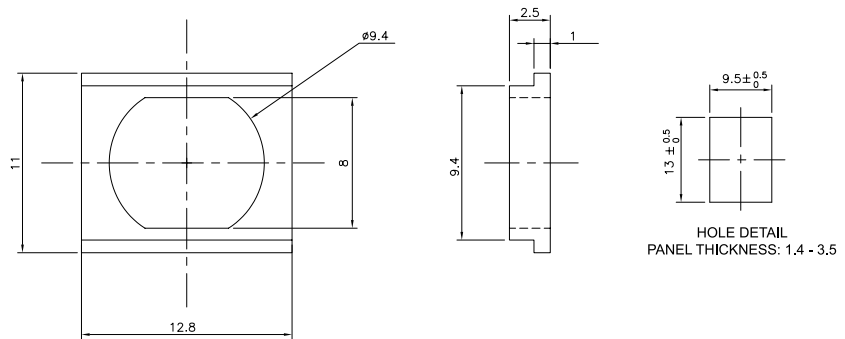
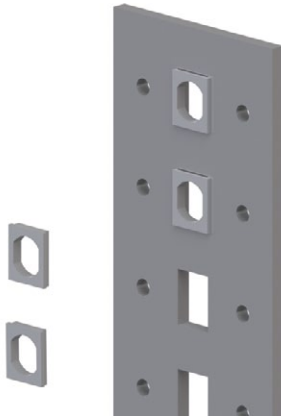
Material: Silicone Rubber, RMS-383; Color: Black

Standard Pack: 1,000 per bag

# FIBER MANAGEMENT

## OFCA-SC/ST-01

Optical Fiber Connector  
Cutout Adapter - SC/ST



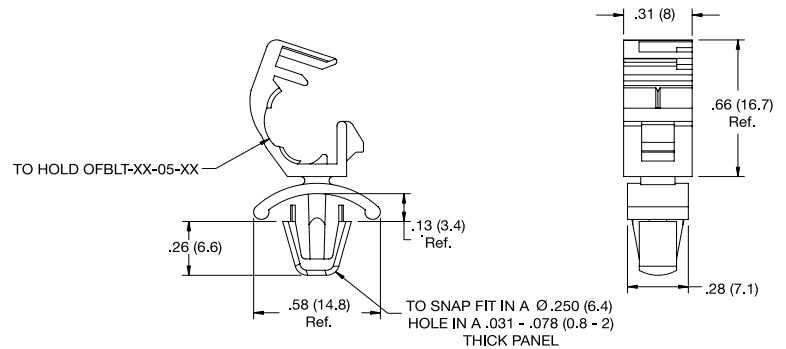
### Features

- Converts a hole cut out for an SC connector into a hole cut out for an ST connector

|                                                                            |
|----------------------------------------------------------------------------|
| <b>Material:</b> Nylon 6/6, RMS-01                                         |
| <b>Color:</b> Natural                                                      |
| <b>Standard Pack:</b> 1,000 per bag                                        |
| <b>All dimensions in millimeters</b>                                       |
| <b>Parts are available by special order only.<br/>5,000 piece minimum.</b> |

## OFBLT-C1

Optical Fiber Bend Limiting  
Tubing Clip



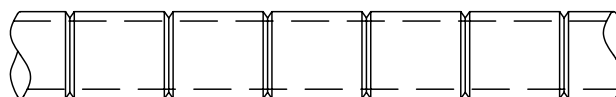
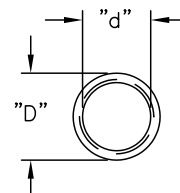
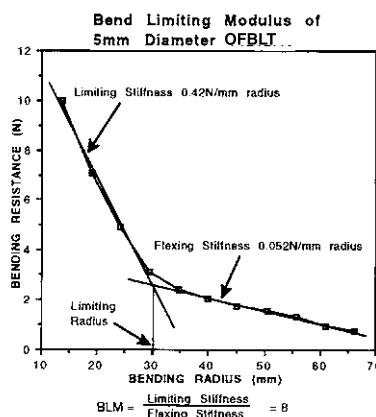
| <b>Color:</b> Natural; <b>Standard Pack:</b> 1,000 per bag |                           |
|------------------------------------------------------------|---------------------------|
| Part Number                                                | Material                  |
| OFBLT-C1-5-01                                              | UL94 V2 Nylon 6/6, RMS-01 |
| OFBLT-C1-5-19                                              | UL94 V0 Nylon 6/6, RMS-19 |

## Notes

J

## OFBLT

### Optical Fiber Bend Limiting Tubing



#### Description:

Optical Fiber Bend Limiting Tubing offers the ultimate protection to fibers eliminating problems such as crushing, kinking, and micro bending, while supplying an entire, self-managing solution to managing the routing of fiber.

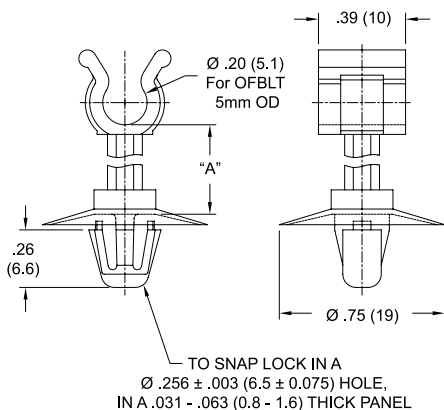
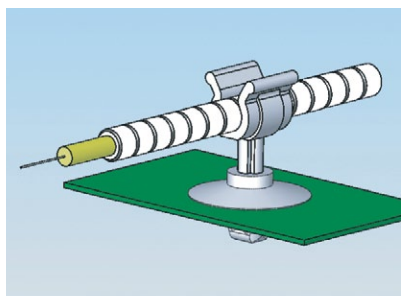
#### Features:

- Suitable for blown fiber applications over short distance and for curbside FTTH/FTTB applications

| Miniflex Technology Manufactured By Richco              |                                                   |                    |                    |                       |
|---------------------------------------------------------|---------------------------------------------------|--------------------|--------------------|-----------------------|
| Standard Pack: 100 meter length                         |                                                   |                    |                    |                       |
| Material: PP,<br>RMS-86<br>Color: White                 | Material: UL94 V0 PBT,<br>RMS-140<br>Color: Black | "D" +0.00<br>-0.10 | "d" +0.20<br>-0.10 | Install Tool Required |
| Standard Version                                        |                                                   |                    |                    |                       |
| OFBLT-2.6-05-PP                                         | -                                                 | 5.05               | 2.6                | -                     |
| OFBLT-3.1-05-PP                                         | OFBLT-3.1-05-PBTV0                                | 5.05               | 3.1                |                       |
| -                                                       | OFBLT-3.3-05-PBTV0                                | 5.05               | 3.3                |                       |
| OFBLT-4.2-635-PP                                        | OFBLT-4.2-635-PBTV0                               | 6.35               | 4.2                |                       |
| Pull-Cord Version                                       |                                                   |                    |                    |                       |
| OFBLT-P-2.6-05-PP                                       | -                                                 | 5.05               | 2.6                | -                     |
| OFBLT-P-3.1-05-PP                                       | OFBLT-P-3.1-05-PBTV0                              | 5.05               | 3.1                |                       |
| OFBLT-P-4.2-635-PP                                      | OFBLT-P-4.2-635-PBTV0                             | 6.35               | 4.2                |                       |
| Slit Version                                            |                                                   |                    |                    |                       |
| OFBLTS-2.6-05-PP                                        | -                                                 | 5.05               | 2.6                | OFZT-2-14-RED         |
| OFBLTS-3.1-05-PP                                        | OFBLTS-3.1-05-PBTV0                               | 5.05               | 3.1                | OFZT-3-14-BLK         |
| OFBLTS-4.2-635-PP                                       | OFBLTS-4.2-635-PBTV0                              | 6.35               | 4.2                |                       |
| Available by special order.                             |                                                   |                    |                    |                       |
| Other colors are available by Special Order.            |                                                   |                    |                    |                       |
| OFBLT 4mm Slit Version also available by Special Order. |                                                   |                    |                    |                       |
| All dimensions in millimeters.                          |                                                   |                    |                    |                       |

## TPCE

### Tube & Pipe Clip



| Standard Pack: 1000 per bag                                     |                                                          |          |
|-----------------------------------------------------------------|----------------------------------------------------------|----------|
| Material: UL94 V2<br>Nylon 6/6, RMS-01<br>Color: Natural        | Material: UL94 V0<br>Nylon 6/6, RMS-19<br>Color: Natural | "A"      |
| TPCE-5-5.1-4M-01                                                | TPCE-5-5.1-4M-19                                         | .16 (4)  |
| TPCE-5-5.1-6M-01                                                | TPCE-5-5.1-6M-19                                         | .24 (6)  |
| TPCE-5-5.1-8M-01                                                | TPCE-5-5.1-8M-19                                         | .32 (8)  |
| TPCE-5-5.1-10M-01                                               | TPCE-5-5.1-10M-19                                        | .39 (10) |
| Parts are available by special order only. 5,000 piece minimum. |                                                          |          |
| Also available in black color by Special Order.                 |                                                          |          |

## OFTGS/OFTGSP OFBLT Saddle



Fig. 1

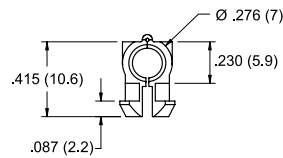


Fig. 2

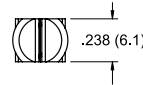
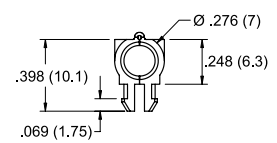


FIG 1 Mounting Hole Detail

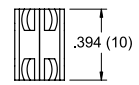
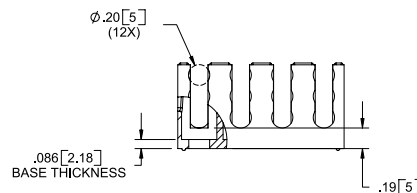
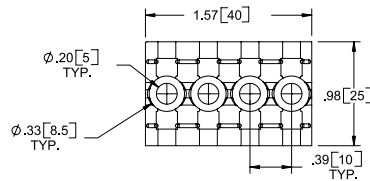
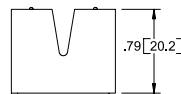
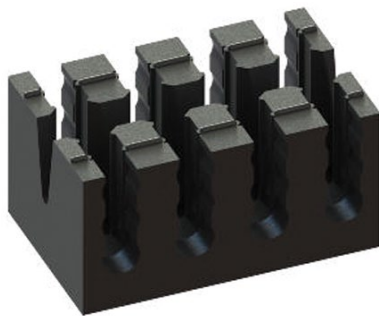


FIG 2 Mounting Hole Detail

| Standard Pack: 100 per bag |                    |         |        |             |                      |
|----------------------------|--------------------|---------|--------|-------------|----------------------|
| Part No.                   | Material           | Color   | Figure | Hole Ø      | Panel Thickness Max. |
| OFTGSP-1-05-19             | UL94 V0 Nylon 6/6, | Natural | 1      | .250 (6.35) | .095 (2.4)           |
| OFTGSP-2-05-19             | RMS-19             |         | 2      | .197 (5)    | .071 (1.8)           |

## OFSMB-4-05-GFBLK Optical Fiber Slotted Multi Bracket



### Description

Optical Fiber Slotted Multi-Brackets are for use at distribution points where orderly fiber management, protection and strain relief is required.

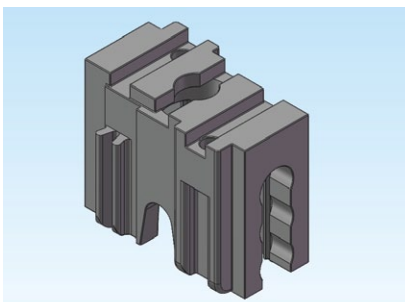
An additional security feature allows fitting of a cable tie around OFSMB's which prevents removal of any retained tubes.

### Features

- OFBLT retention: >70N
- Holds a maximum of 12 tubes

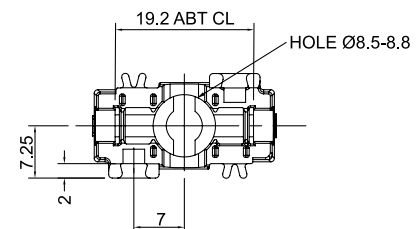
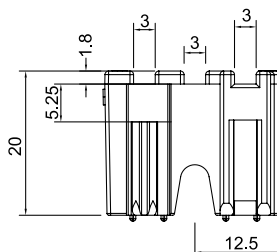
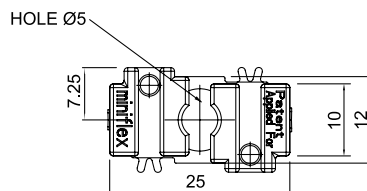
|                                                                    |
|--------------------------------------------------------------------|
| Miniflex Technology Manufactured by Richco - Patented              |
| <b>Material: Glass-Filled UL94 V0 Nylon, RMS-104, Color: Black</b> |
| <b>Standard Pack: 10 per bag</b>                                   |

## OFSSMB-1-05-GFBLK Optical Fiber Single Slotted Multi Bracket



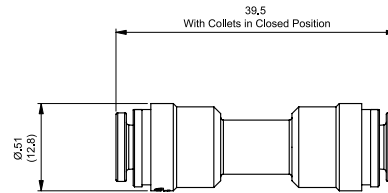
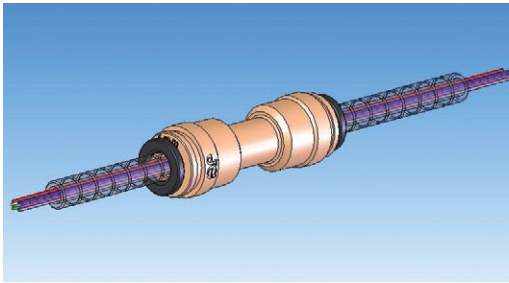
### Features

- OFBLT retention: >70N
- Holds a maximum of 3 tubes
- Ability to latch to other OFSSMB's



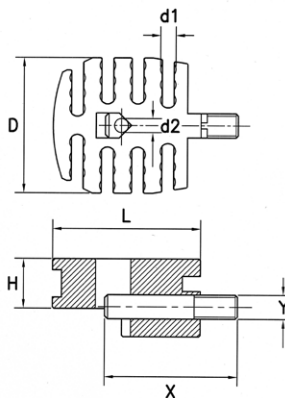
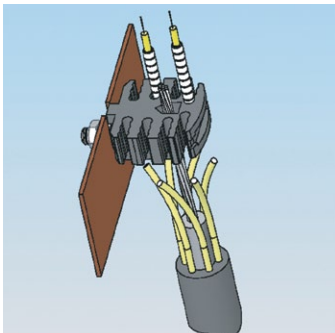
|                                                                   |
|-------------------------------------------------------------------|
| Miniflex Technology Manufactured by Richco                        |
| <b>Material: Glass-Filled UL94 V0 Nylon, RMS-104 Color: Black</b> |
| <b>Standard Pack: 10 per bag</b>                                  |
| <b>All dimensions in millimeters</b>                              |

## OBFC-5-1 Optical Blown Fiber Connector



| OBFC-5-1                                                      |                                    | Standard Pack: 500 per bag |          |
|---------------------------------------------------------------|------------------------------------|----------------------------|----------|
| Component                                                     | Material                           | Color                      | Quantity |
| 5mm O-Rings                                                   | Nitrile, RMS-201                   | Black                      | 4        |
| 5mm Collets                                                   | Acetal, RMS-202                    | Black                      | 2        |
|                                                               | Stainless Steel Grip Ring, RMS-203 | Steel                      |          |
| 5mm Body                                                      | Polycarbonate, RMS-204             | Clear                      | 1        |
| Tube Insertion Depth: 16.8mm with Collets in release position |                                    |                            |          |
| For Coupling (5mm dia.):                                      | OFBLT-XX-05-PP                     |                            |          |
|                                                               | OFBLT-P-XX-05-PP                   |                            |          |
|                                                               | OFBLTS-XX-05-PP                    |                            |          |
| All dimensions in millimeters                                 |                                    |                            |          |

## OFCBU Optical Fiber Cable Breakout Unit

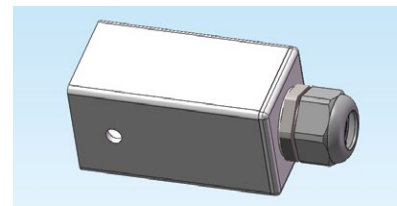


| Miniflex technology manufactured by Richco - Patented                     |                       |           |           |          |           |           |         |
|---------------------------------------------------------------------------|-----------------------|-----------|-----------|----------|-----------|-----------|---------|
| Material: UL94 V0 Nylon 6/6, RMS-19; Bolt: Stainless Steel • Color: Black |                       |           |           |          |           |           |         |
| Part No.                                                                  | Standard Pack: 10/bag |           |           |          |           |           |         |
|                                                                           | "d1"                  | "d2"      | "D"       | "H"      | "L"       | "X"       | "Y"     |
| OFCBU-24-05-19BLK                                                         | .20 (5)               | .19 (4.7) | 1.73 (44) | .63 (16) | 1.93 (49) | 1.73 (44) | .31 (8) |
| Parts are available by special order only. 500 piece minimum.             |                       |           |           |          |           |           |         |

### Description

At distribution points, multi-fiber cables need to have the individual fibers or cable elements separated and protected by a management system. The cable strength member has to be terminated and anchored to prevent damage to the fibers from cable movement or pull out.

## OFCBUGB Optical Fiber Cable Gland Box

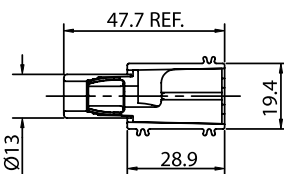
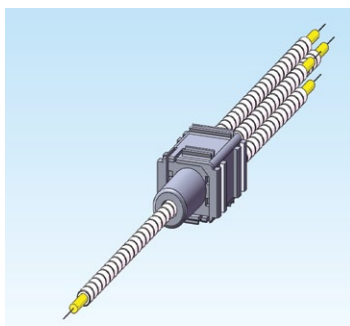


| Standard Pack: 1 per bag       |                |                     |
|--------------------------------|----------------|---------------------|
| Part No.                       | Cable Diameter | Contents            |
| OFCBUGB-00                     | 4 - 8.5        | Gland Box           |
| OFCBUGB-0                      | 7.5 - 10       | (OFCBU-24-05-19BLK) |
| OFCBUGB-1                      | 9.5 - 13       | Assembled           |
| OFCBUGB-2                      | 13 - 18        | Gland Box           |
| OFCBUGB-3                      | 17.5 - 25      | (OFCBU-24-05-19BLK) |
| Sold Separately                |                |                     |
| All dimensions in millimeters. |                |                     |

### Features

- Cable retention: >1.5kN
- OFBLT retention: >100N
- Maximum of 24 cable elements or 24 fiber bundles

## OFM Optical Fiber Manifold



### Description

The 1 into 4 Optical Fiber Manifold enables small multiple fiber cables with aramid and similar strength reinforcement or central GRP strength member to be mechanically and securely terminated. The manifold is stackable, and retains tubes greater than 100N. A development kit is also available that contains all adapters, OFM-4-05-19BLK.

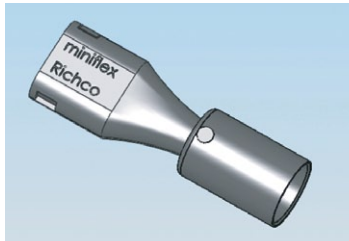
| Miniflex technology manufactured by Richco - Patented         |                              |               |
|---------------------------------------------------------------|------------------------------|---------------|
| Material: UL94 V0 Nylon, RMS-19; Color: Black                 |                              |               |
| Part No.                                                      | Standard Pack: 10/bag        |               |
|                                                               | Incoming Cable Size Diameter | Adapter Color |
| OFM-C-1-05-19BLK                                              | .098 - .138 (2.5 - 3.5)      | Black         |
| OFM-C-2-05-19BLK                                              | .118 - .157 (3 - 4)          | Blue          |
| OFM-C-3-05-19BLK                                              | .161 - .197 (4.1 - 5)        | Brown         |
| OFM-C-4-05-19BLK                                              | .201 - .236 (5.1 - 6)        | Green         |
| OFM-C-5-05-19BLK                                              | .240 - .276 (6.1 - 7)        | Red           |
| OFM-C-6-05-19BLK                                              | .280 - .335 (7.1 - 8.5)      | Black Rubber  |
| OFM-C-7-05-19BLK                                              | .335 - .425 (8.5 - 10.8)     | Black Rubber  |
| OFM-T-05-19BLK                                                | .197 (5) OFBLT               | Split Black   |
| OFM-T-635-19BLK                                               | .197 - .250 (5 - 6.35) OFBLT | Split Blue    |
| Parts are available by special order only. 500 piece minimum. |                              |               |



# FIBER MANAGEMENT

## OFD

### Optical Fiber Duplexer

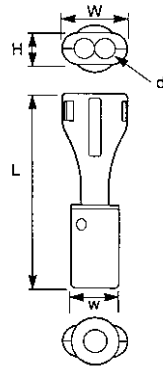


#### Features

- Tube retention: >100N
- For a Development Kit containing all adapters, order: OFD-C-05-19BLK

#### Description

The Optical Fiber Duplexer enables cables with aramid strands to be broken out and mechanically terminated. The Duplexer gives a range of input adapters to cover OFBLT, fiber bundles, cable and patch cords from 2.5mm to 7.00mm in diameter. For cables up to 10.8mm in diameter, a rubber sleeve is provided. See cable size chart below.

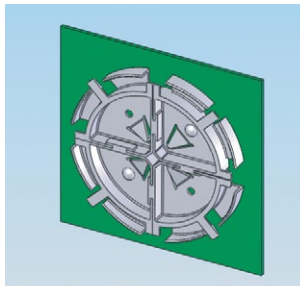


| Part Number | "L"         | "W"         | "w"         | "H"      | "d"      |
|-------------|-------------|-------------|-------------|----------|----------|
| OFD series  | 1.95 (49.6) | 0.64 (16.2) | 0.52 (13.2) | 0.31 (8) | 0.20 (5) |

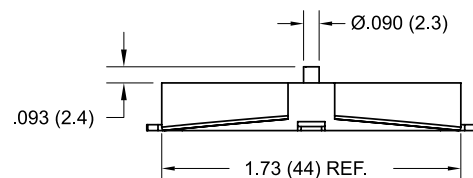
| Miniflex technology manufactured by Richco - Patented                |                              |               |
|----------------------------------------------------------------------|------------------------------|---------------|
| <b>Material: UL94 V0 Nylon, RMS-19; Color: Black</b>                 |                              |               |
| <b>Standard Pack: 10/bag</b>                                         |                              |               |
| Part Number                                                          | Incoming Cable Size Diameter | Adapter Color |
| OFD-C-1-05-19BLK                                                     | .098 - .138 (2.5 - 3.5)      | Black         |
| OFD-C-2-05-19BLK                                                     | .118 - .157 (3 - 4)          | Blue          |
| OFD-C-3-05-19BLK                                                     | .161 - .197 (4.1 - 5)        | Brown         |
| OFD-C-4-05-19BLK                                                     | .200 - .236 (5.1 - 6)        | Green         |
| OFD-C-5-05-19BLK                                                     | .240 - .276 (6.1 - 7)        | Red           |
| OFD-C-6-05-19BLK                                                     | .280 - .335 (7.1 - 8.5)      | Black Rubber  |
| OFD-C-9-05-19BLK                                                     | .335 - .425 (8.5 - 10.8)     | Black Rubber  |
| OFD-C-7-05-19BLK                                                     | .197 (5) OFBLT               | Split Black   |
| OFD-C-8-635-19BLK                                                    | .250 (6.35) OFBLT            | Split Blue    |
| <b>Parts are available by special order only. 500 piece minimum.</b> |                              |               |

## OFS90-30R

### Optical Fiber Segment 90°, 30mm Radius



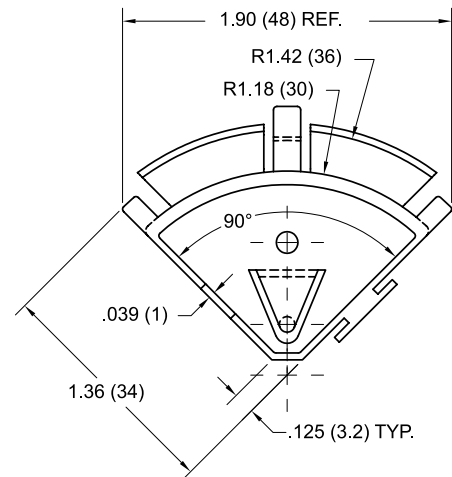
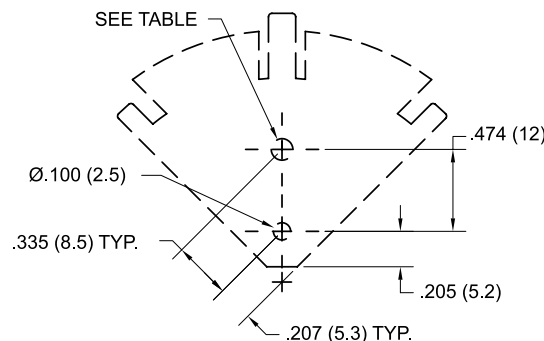
| <b>Material: UL94 V0 Nylon 6/6, RMS-19<br/>Color: Natural</b> |                       |                        |
|---------------------------------------------------------------|-----------------------|------------------------|
| <b>Standard Pack: 100 per bag</b>                             |                       |                        |
| <b>Mounting Rivets For The OFS90-30R</b>                      |                       |                        |
| Rivet No.                                                     | Panel Thickness Range | Mounting Hole Dia.     |
| SRV0-3035                                                     | Up to .039 (1)        | .122-.126<br>(3.1-3.2) |
| SRV0-3045                                                     | .039-.079 (1-2)       |                        |
| SRV0-3055                                                     | .079-.118 (2-3)       |                        |
| SRV0-3065                                                     | .118-.158 (3-4)       |                        |
| SRV0-3075                                                     | .158-.197 (4-5)       |                        |
| SRV0-3080                                                     | .177-.217 (4.5-5.5)   |                        |
| SRV0-3090                                                     | .217-.256 (5.5-6.5)   |                        |
| SRV0-3100                                                     | .256-.295 (6.5-7.5)   |                        |



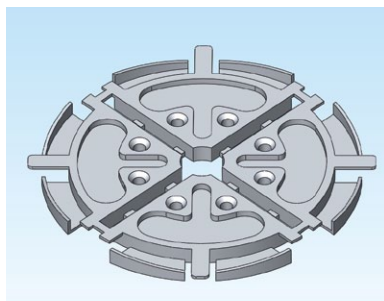
#### Features

- Assemble two pieces for bend control around a 180° turn
- In a four-piece assembled mode, stores approximately 60m of 900 micron fiber

#### SUGGESTED MOUNTING HOLE LOCATION



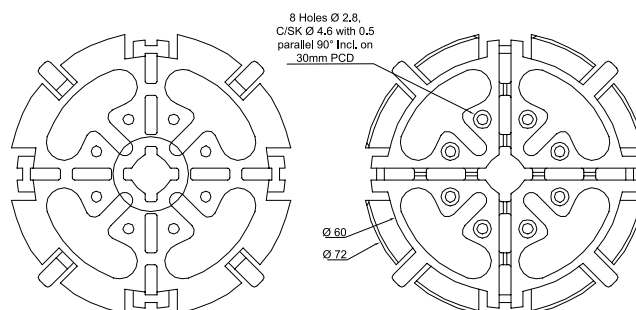
## EFA04 Fiber Reels



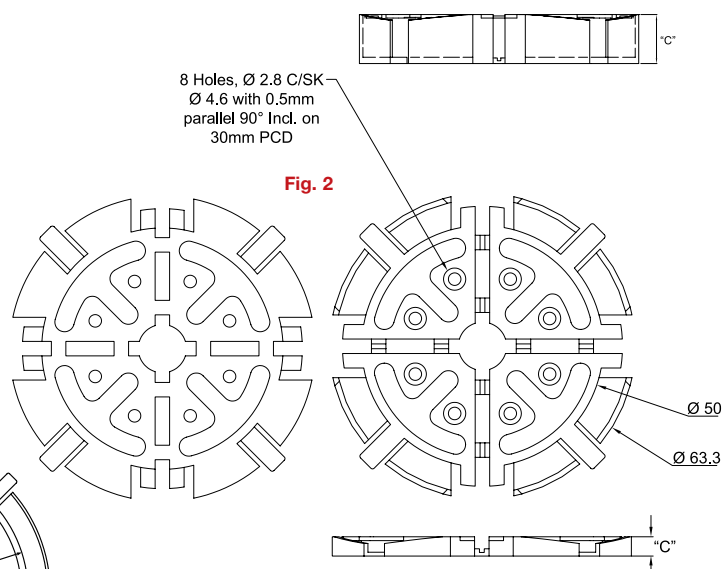
### Features

- Board mountable using Stand-off EFA04 27 ASS (page 188)
- Stackable using Stacking Pillar EFA04 53 ASS (page 188)
- Fig. 1 can be broken apart into 4-90° bending control devices

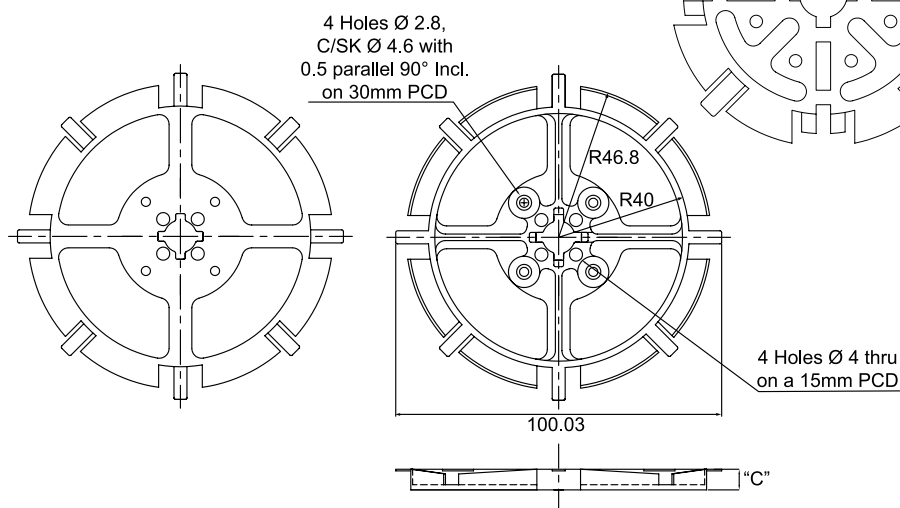
**Fig. 1**



**Fig. 2**



**Fig. 3**



| A Europlus/Richco Product                             |                                        |      |        |                          |
|-------------------------------------------------------|----------------------------------------|------|--------|--------------------------|
| Material: UL94 V0 Nylon 6, RMS-390; Adhesive: RMS-143 |                                        |      |        |                          |
| Standard Pack: 100 per bag                            |                                        |      |        |                          |
| Part No.                                              | Contents                               | "C"  | Figure | Max. Fiber Storage       |
| EFA04 04 001                                          | 25 mm radius fiber reel                | 4    | 1      | 2.5m of 900 micron fiber |
| EFA04 04 ASS                                          | EFA04-04-001 with 4 self-adhesive pads | 6.35 |        | 4.5m of 900 micron fiber |
| EFA04 21 001                                          | 25 mm radius fiber reel                | 3.9  | 2      | 3m of 900 micron fiber   |
| EFA04 21 ASS                                          | EFA04-21-001 with 4 self-adhesive pads | 12.4 |        | 9m of 900 micron fiber   |
| EFA04 10 001                                          | 30mm radius fiber reel                 | 8    |        | 15m of 900 micron fiber  |
| EFA04 10 ASS                                          | EFA04-10-001 with 4 self-adhesive pads | 6.35 |        | 7m of 900 micron fiber   |
| EFA04 14 001                                          | 30mm radius fiber reel                 |      | 3      |                          |
| EFA04 14 ASS                                          | EFA04-14-001 with 4 self-adhesive pads |      |        |                          |
| EFA04 76 001                                          | 35mm radius fiber reel                 |      |        |                          |
| EFA04 76 ASS                                          | EFA04-76-001 with 4 self-adhesive pads |      |        |                          |
| EFA04 23 001                                          | 40mm radius fiber reel                 |      |        |                          |
| EFA04 23 ASS                                          | EFA04-23-001 with 4 self-adhesive pads |      |        |                          |
| Available by special order only, 500 piece MOQ.       |                                        |      |        |                          |
| All dimensions in millimeters.                        |                                        |      |        |                          |

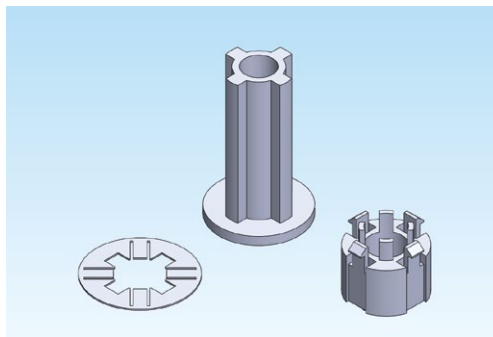
# FIBER MANAGEMENT

## EFA04 53 ASS

### Fiber Reel Mounting Pillar

#### Features

- Pillar is rivet mounted from the bottom of the board with SRHR-3555 rivet (see page 48)
- Reels are retained using the included spring retaining clip

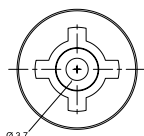
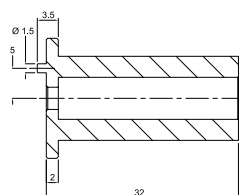


## EFA04 27 ASS

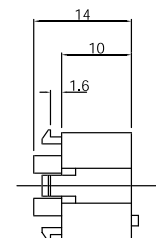
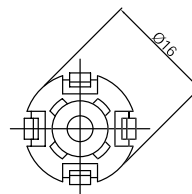
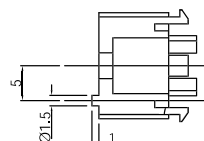
### Fiber Reel Standoff

#### Features

- Standoff is rivet mounted from the bottom of the board with SRHR-3555 rivet (see page 48)
- Reel snaps onto the top of the standoff, holding it in place



SPRING RETAINING CLIP INCLUDED

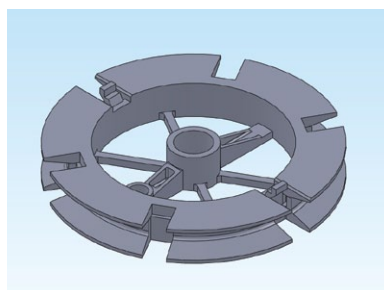


|                                                                      |
|----------------------------------------------------------------------|
| A Europlus/Richco Product                                            |
| <b>Material: UL94 V0 Nylon 6, RMS-390; Color: Black</b>              |
| <b>Standard Pack: 100 per bag</b>                                    |
| <b>EFA04 53 ASS</b>                                                  |
| <b>Parts are available by special order only. 500 piece minimum.</b> |
| <b>All dimensions in millimeters</b>                                 |

|                                                                      |
|----------------------------------------------------------------------|
| A Europlus/Richco Product                                            |
| <b>Material: UL94 V0 Nylon 6, RMS-390; Color: Black</b>              |
| <b>Standard Pack: 50 per bag</b>                                     |
| <b>EFA04 27 ASS</b>                                                  |
| <b>Parts are available by special order only. 500 piece minimum.</b> |
| <b>All dimensions in millimeters</b>                                 |

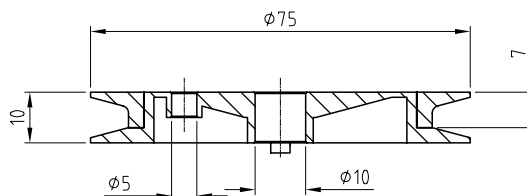
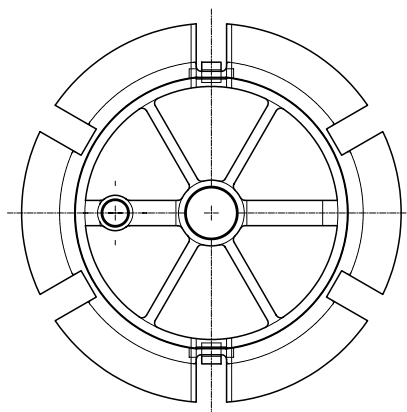
## EFA04 67 ASS

### Fiber Winding Reel



#### Features

- Wound fiber is taped to maintain bend radius and provide identification (tape not supplied)
- Two-part reel is then disassembled for easy fiber removal
- Stores up to 8m of 900 micron fiber at a 30mm radius
- Reusable



|                                                                      |
|----------------------------------------------------------------------|
| A Europlus/Richco Product                                            |
| <b>Material: UL94 V0 Nylon 6, RMS-390; Color: Black</b>              |
| <b>Standard Pack: 50 per bag</b>                                     |
| <b>EFA04 67 ASS</b>                                                  |
| <b>Parts are available by special order only. 100 piece minimum.</b> |
| <b>All dimensions in millimeters</b>                                 |

J



**Richco**

## EFA04 34 Corner Guide



### Features

- Maintains bending radius through a 90° turn

Fig. 2

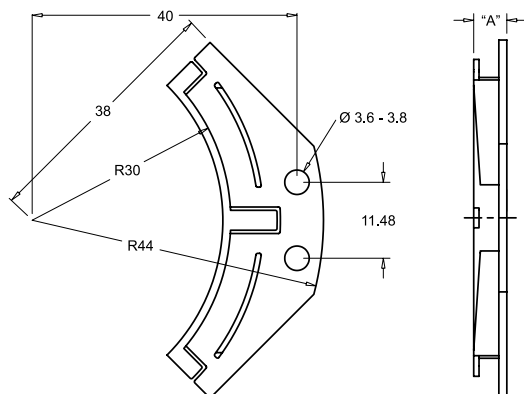


Fig. 4

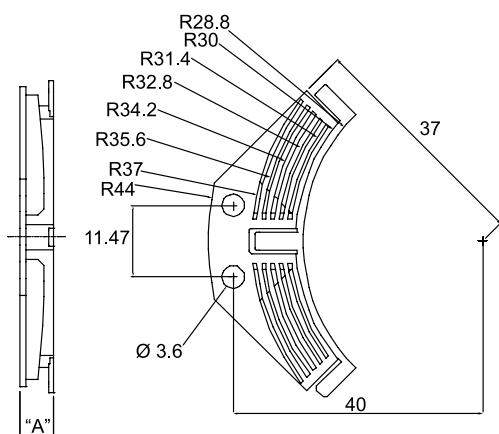


Fig. 1

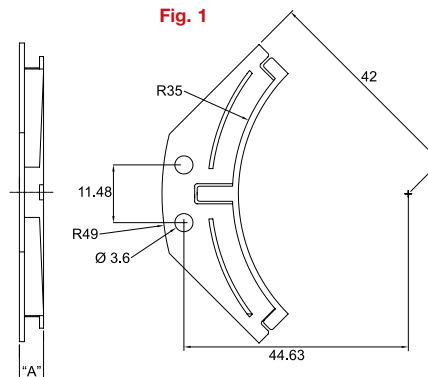
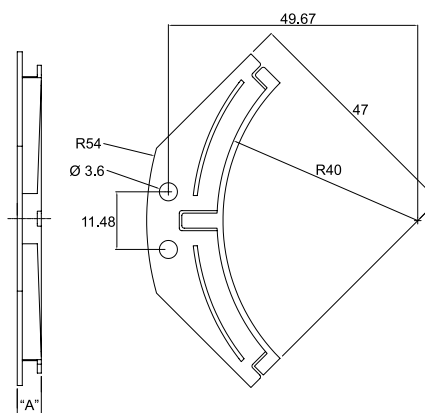


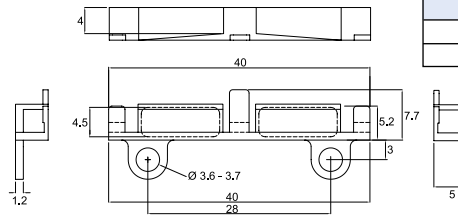
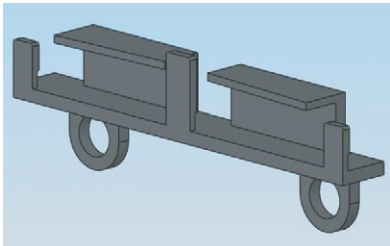
Fig. 3



| Europlus/Richco Product                                       |                                           |            |      |     |
|---------------------------------------------------------------|-------------------------------------------|------------|------|-----|
| Material: UL94 V0 Nylon 6, RMS-390; Color: Black              |                                           |            |      |     |
| Part No                                                       | Contents                                  | "A" Height | Fig. |     |
| EFA04 34 001                                                  | 30mm Radius Corner Guide                  | 5          | 2    |     |
| EFA04 34 P01                                                  | EFA04 34 001 with Self-Adhesive Pad       |            |      |     |
| EFA04 34 R01                                                  | EFA04 34 001 with SRHR-3555 Rivets        |            |      |     |
| EFA04 34 PR1                                                  | EFA04 34 001 with Adhesive Pad and Rivets | 8          |      |     |
| EFA04 34 010                                                  | 30mm Radius Corner Guide                  |            |      |     |
| EFA04 34 P10                                                  | EFA04 34 010 with Self-Adhesive Pad       |            |      |     |
| EFA04 34 R10                                                  | EFA04 34 010 with SRHR-3555 Rivets        | 12         | 1    |     |
| EFA04 34 PR0                                                  | EFA04 34 010 with Adhesive Pad and Rivets |            |      |     |
| EFA04 34 004                                                  | 30mm Radius Corner Guide                  |            |      |     |
| EFA04 34 P04                                                  | EFA04 34 004 with Self-Adhesive Pad       | 12         |      | 4.8 |
| EFA04 34 R04                                                  | EFA04 34 004 with SRHR-3555 Rivets        |            |      |     |
| EFA04 34 PR4                                                  | EFA04 34 004 with Adhesive Pad and Rivets |            |      |     |
| EFA04 34 002                                                  | 35mm Radius Corner Guide                  | 4.8        | 3    |     |
| EFA04 34 P02                                                  | EFA04 34 002 with Self-Adhesive Pad       |            |      |     |
| EFA04 34 R02                                                  | EFA04 34 002 with SRHR-3555 Rivets        |            |      |     |
| EFA04 34 PR2                                                  | EFA04 34 002 with Adhesive Pad and Rivets | 12         |      | 5.5 |
| EFA04 34 005                                                  | 35mm Radius Corner Guide                  |            |      |     |
| EFA04 34 P05                                                  | EFA04 34 005 with Self-Adhesive Pad       |            |      |     |
| EFA04 34 R05                                                  | EFA04 34 005 with SRHR-3555 Rivets        | 12         | 4    |     |
| EFA04 34 PR5                                                  | EFA04 34 005 with Adhesive Pad and Rivets |            |      |     |
| EFA04 34 003                                                  | 40mm Radius Corner Guide                  |            |      |     |
| EFA04 34 P03                                                  | EFA04 34 003 with Self-Adhesive Pad       | 4.8        |      | 3   |
| EFA04 34 R03                                                  | EFA04 34 003 with SRHR-3555 Rivets        |            |      |     |
| EFA04 34 PR3                                                  | EFA04 34 003 with Adhesive Pad and Rivets |            |      |     |
| EFA04 34 006                                                  | 40mm Radius Corner Guide                  | 12         | 5.5  |     |
| EFA04 34 P06                                                  | EFA04 34 006 with Self-Adhesive Pad       |            |      |     |
| EFA04 34 R06                                                  | EFA04 34 006 with SRHR-3555 Rivets        |            |      |     |
| EFA04 34 PR6                                                  | EFA04 34 006 with Adhesive Pad and Rivets | 5.5        |      | 4   |
| EFA04 34 007                                                  | Ribbon Fiber Corner Guide                 |            |      |     |
| EFA04 34 P07                                                  | EFA04 34 007 with Self-Adhesive Pad       |            |      |     |
| EFA04 34 R07                                                  | EFA04 34 007 with SRHR-3555 Rivets        | 5.5        | 4    |     |
| EFA04 34 PR7                                                  | EFA04 34 007 with Adhesive Pad and Rivets |            |      |     |
| Parts are available by special order only. 500 piece minimum. |                                           |            |      |     |
| All dimensions in millimeters                                 |                                           |            |      |     |

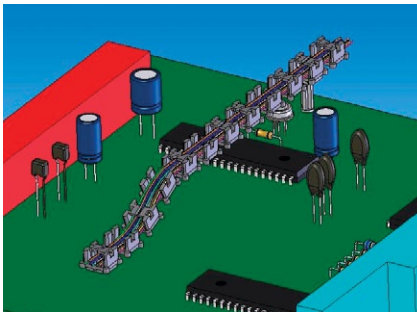
# FIBER MANAGEMENT

## EFA04 60 Straight Guide



| A Europlus/Richco Product                                            |                              |
|----------------------------------------------------------------------|------------------------------|
| <b>Material: UL94 V0 Nylon 6, RMS-390; Color: Black</b>              |                              |
| <b>Standard Pack: 100 per bag</b>                                    |                              |
| Part Number                                                          | Contents                     |
| EFA04 60 001                                                         | Guide                        |
| EFA04 60 P01                                                         | Guide with Self-Adhesive Pad |
| EFA04 60 R01                                                         | Guide with SRHR-3555 Rivets  |
| EFA04 60 PR1                                                         | Guide with Pad and Rivets    |
| <b>Parts are available by special order only. 500 piece minimum.</b> |                              |
| <b>All dimensions in millimeters</b>                                 |                              |

## OFFG/OFFGSP Optical Flexible Fiber Guide System

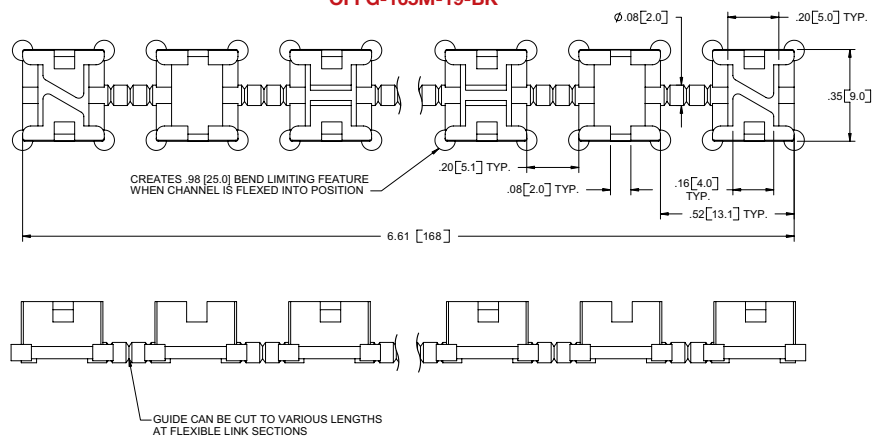


Patent US 7,515,806

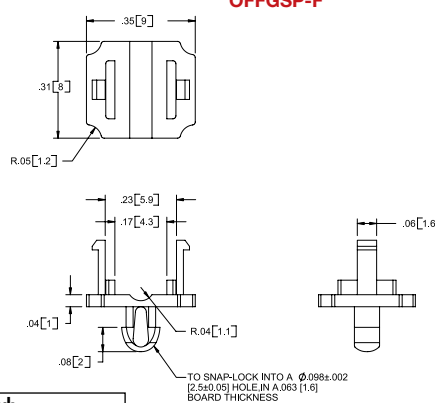
### Features

- For use with 250 and 900 micron fiber
- Fiber can enter and exit at any point, without risk of fiber snagging or kinking

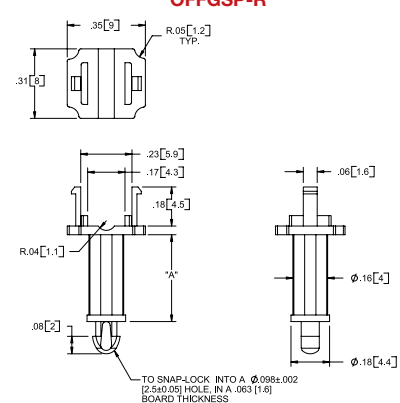
### OFFG-165M-19-BK



### OFFGSP-F



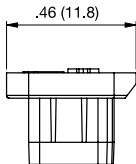
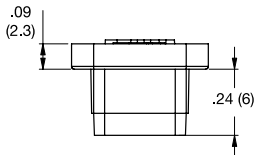
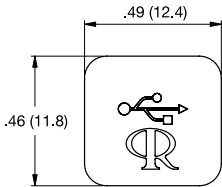
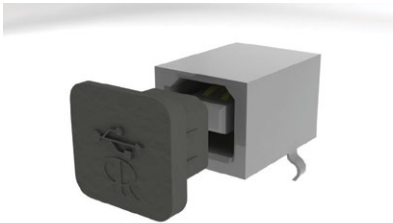
### OFFGSP-R



|                                                          |
|----------------------------------------------------------|
| <b>Material: UL94 V0 Nylon 6/6, RMS-19; Color: Black</b> |
| <b>Standard Pack: 100 per bag</b>                        |
| <b>OFFG-165M-19-BK</b>                                   |

|                                                                                   |                       |                     |
|-----------------------------------------------------------------------------------|-----------------------|---------------------|
| Material: UL94 V0 Nylon 6/6, RMS-19; Color: Black                                 |                       |                     |
| Standard Pack: 100 per bag                                                        |                       |                     |
| Part No.                                                                          | OFFG Mounting Type    | Standoff Height "A" |
| OFFGSP-F-19-BK                                                                    | Flat Support Post     | -                   |
| OFFGSP-R-05-19-BK                                                                 | Standoff Support Post | .20 (5)             |
| OFFGSP-R-10-19-BK                                                                 |                       | .39 (10)            |
| OFFGSP-R-16-19-BK                                                                 |                       | .63 (16)            |
| Other standoff heights and panel thicknesses are available by special order only. |                       |                     |

**CP-USB-B**  
USB-B Connector Plugs



|                                                  |          |
|--------------------------------------------------|----------|
| Material: Silicone Rubber, RMS-383; Color: Black |          |
| Standard Pack:1000 per bag                       |          |
| Part No.                                         | CP-USB-B |

# FIBER MANAGEMENT

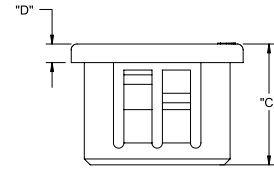
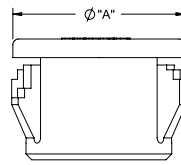
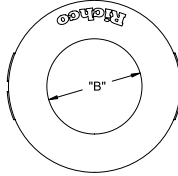
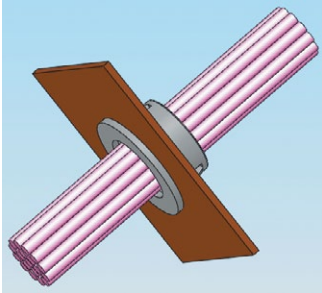
## Notes

J



# GROMMETS, BUSHINGS & CABLE GLANDS

## PGSB Closed Snap Bushing

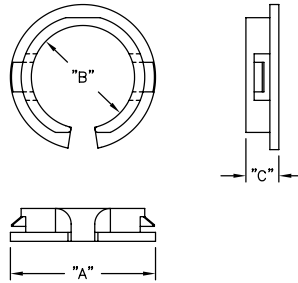
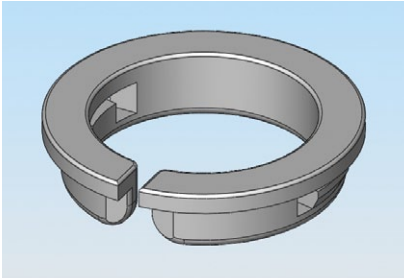


UL #E320906

| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Black                                                |               |                     |              |                     |             |             |                  |            |             |
|--------------------------------------------------------------------------------------------------|---------------|---------------------|--------------|---------------------|-------------|-------------|------------------|------------|-------------|
| Part No.                                                                                         | Hole Diameter | Panel Thickness     | "A"          | "B" Dia. Ref        | "C"         | "D"         | Standard Package |            |             |
| PGSB-0305                                                                                        | .189 (4.8)    | .063-.067 (1.6-1.7) | .26 (6.5)    | .125 (3.2)          | .24 (6)     | .051 (1.36) | 1,000            |            |             |
| PGSB-1                                                                                           | .250 (6.35)   | .062 (1.57) Max     | .312 (7.9)   |                     | .312 (7.9)  | .063 (1.6)  |                  |            |             |
| PGSB-2                                                                                           | .312 (7.9)    |                     | .375 (9.5)   |                     |             |             |                  | .187 (4.7) |             |
| PGSB-3                                                                                           |               |                     |              |                     |             |             |                  | .240 (6.1) | .237 (6)    |
| PGSB-4                                                                                           | .375 (9.5)    | .031-.125 (0.8-3.2) | .468 (11.9)  | .187 (4.7)          | .406 (10.3) | .055 (1.4)  |                  | 500        |             |
| PGSB-5                                                                                           |               |                     |              | .250 (6.35)         | .260 (6.6)  | .051 (1.3)  |                  |            |             |
| PGSB-0710                                                                                        | .394 (10)     | .031-.063 (0.8-1.6) | .472 (12)    | .284 (7.2)          |             |             |                  |            | .406 (10.3) |
| PGSB-6                                                                                           | .437 (11.1)   | .031-.125 (0.8-3.2) | .531 (13.5)  | .270 (6.85)         |             |             |                  |            |             |
| PGSB-7                                                                                           |               |                     |              | .312 (7.9)          |             |             |                  |            |             |
| PGSB-8                                                                                           |               |                     |              | .243 (6.35)         |             |             |                  |            |             |
| PGSB-9                                                                                           | .468 (11.9)   | .062 (1.57) Max     | .578 (14.7)  | .343 (8.7)          | .250 (6.35) | .050 (1.27) | 100              |            |             |
| PGSB-10                                                                                          | .500 (12.7)   | .031-.125 (0.8-3.2) |              | .250 (6.35)         | .406 (10.3) | .063 (1.6)  |                  |            |             |
| PGSB-11                                                                                          |               |                     |              | .312 (7.9)          |             |             |                  |            |             |
| PGSB-12                                                                                          |               |                     |              | .062 (1.57) Max     | .562 (14.3) |             |                  | .375 (9.5) | .250 (6.35) |
| PGSB-1013                                                                                        | .512 (13)     | .031-.118 (0.8-3)   | .591 (15)    | .402 (10.2)         | .354 (9)    | .051 (1.3)  |                  | 200        |             |
| PGSB-13                                                                                          | .531 (13.5)   | .062 (1.57) Max     | .593 (15.1)  | .406 (10.3)         | .250 (6.35) | .406 (10.3) |                  |            | .063 (1.6)  |
| PGSB-14                                                                                          | .562 (14.3)   | .031-.125 (0.8-3.2) | .656 (16.7)  | .312 (7.9)          |             |             |                  |            |             |
| PGSB-15                                                                                          |               |                     |              | .391 (9.9)          |             |             |                  |            |             |
| PGSB-16                                                                                          |               |                     |              | .437 (11.1)         |             |             |                  |            |             |
| PGSB-17                                                                                          |               |                     |              | .250 (6.35)         |             |             |                  |            |             |
| PGSB-18                                                                                          | .625 (15.9)   | .062 (1.57) Max     | .703 (17.85) | .437 (11.1)         | .250 (6.35) | .059 (1.5)  |                  |            |             |
| PGSB-19                                                                                          |               |                     |              |                     |             |             |                  |            |             |
| PGSB-1316                                                                                        | .630 (16)     | .055-.139 (1.4-3.5) | .709 (18)    | .504 (12.8)         | .413 (10.5) | 100         |                  |            |             |
| PGSB-20                                                                                          | .687 (17.5)   | .031-.125 (0.8-3.2) | .781 (19.8)  | .500 (12.7)         | .406 (10.3) |             | .063 (1.6)       |            |             |
| PGSB-21                                                                                          |               |                     |              | .562 (14.3)         |             |             |                  |            |             |
| PGSB-1519                                                                                        | .748 (19)     | .039-.130 (1.3-3)   | .854 (21.7)  | .602 (15.3)         | .433 (11)   |             | .059 (1.5)       | 200        |             |
| PGSB-22                                                                                          | .750 (19.1)   | .031-.125 (0.8-3.2) | .843 (21.4)  | .500 (12.7)         | .406 (10.3) |             | .063 (1.6)       |            |             |
| PGSB-23                                                                                          |               |                     |              | .562 (14.3)         |             |             |                  |            |             |
| PGSB-24                                                                                          |               |                     |              | .062 (1.57) Max     | .828 (21)   |             |                  |            | .625 (15.9) |
| PGSB-25                                                                                          | .859 (21.8)   | .453 (11.5)         | .250 (6.35)  |                     | .059 (1.5)  |             |                  |            |             |
| PGSB-1822                                                                                        | .866 (22)     |                     |              | .035-.091 (0.9-2.3) |             |             | .976 (24.8)      |            | .717 (18.2) |
| PGSB-26                                                                                          | .875 (22.2)   |                     |              | .031-.125 (0.8-3.2) |             | .953 (24.2) | .500 (12.7)      |            |             |
| PGSB-27                                                                                          |               |                     |              |                     |             |             | .562 (14.3)      |            |             |
| PGSB-28                                                                                          |               |                     |              |                     |             |             | .625 (15.9)      |            |             |
| PGSB-29                                                                                          |               | .687 (17.45)        |              |                     |             |             |                  |            |             |
| PGSB-30                                                                                          |               | .062 (1.57) Max     | .937 (23.8)  |                     | .750 (19.1) |             | .250 (6.35)      |            |             |
| PGSB-31                                                                                          | 1.00 (25.4)   | .031-.125 (0.8-3.2) | 1.125 (28.6) | .766 (19.45)        | .453 (11.5) | .063 (1.6)  | 100              |            |             |
| PGSB-32                                                                                          | 1.097 (27.86) |                     | 1.218 (31)   | .812 (20.6)         |             |             |                  |            |             |
| PGSB-33                                                                                          |               |                     |              | .875 (22.2)         |             |             |                  |            |             |
| PGSB-34                                                                                          |               |                     |              | .937 (23.8)         |             |             |                  |            |             |
| PGSB-2428                                                                                        | 1.102 (28)    | .039-.130 (1-3.3)   | 1.240 (31.5) | .945 (24)           | .441 (11.2) | .059 (1.5)  | 200              |            |             |
| PGSB-2530                                                                                        | 1.181 (30)    | .039-.122 (1-3.1)   | 1.319 (33.5) | .984 (25)           | .453 (11.5) | .071 (1.8)  | 100              |            |             |
| PGSB-35                                                                                          | 1.25 (31.75)  | .031-.125 (0.8-3.2) | 1.312 (33.3) | .937 (23.8)         |             | .063 (1.6)  |                  |            |             |
| PGSB-2634                                                                                        | 1.347 (34.2)  | .039-.126 (1-3.2)   | 1.496 (38)   | 1.031 (26.2)        |             | .059 (1.5)  |                  |            |             |
| PGSB-36                                                                                          | 1.375 (34.9)  | .031-.125 (0.8-3.2) | 1.468 (37.3) | 1.00 (25.4)         |             | .063 (1.6)  |                  |            |             |
| PGSB-37                                                                                          | 1.50 (38.1)   |                     | 1.609 (40.9) | 1.062 (27)          |             |             |                  |            |             |
| PGSB-38                                                                                          |               |                     |              | 1.125 (28.6)        |             |             |                  |            |             |
| PGSB-39                                                                                          |               |                     |              | 1.312 (33.3)        |             |             |                  |            |             |
| PGSB-40                                                                                          |               |                     |              | 1.375 (34.9)        |             |             |                  |            |             |
| PGSB-41                                                                                          | 2.00 (50.8)   |                     | 2.125 (54)   | 1.64 (41.7)         |             |             |                  |            |             |
| PGSB-42                                                                                          |               |                     |              | 1.75 (44.5)         |             |             |                  |            |             |
| PGSB-43                                                                                          | 2.25 (57.2)   | .250 (6.35) Max     | 2.48 (63)    | 1.85 (47)           | .720 (18.2) |             |                  |            |             |
| *Available in UL94 V0 material by special order. To order, add -V0 to the end of the part number |               |                     |              |                     |             |             |                  |            |             |
| Parts available in White by special order. To order, add WH to the end of the part number        |               |                     |              |                     |             |             |                  |            |             |

# GROMMETS, BUSHINGS & CABLE GLANDS

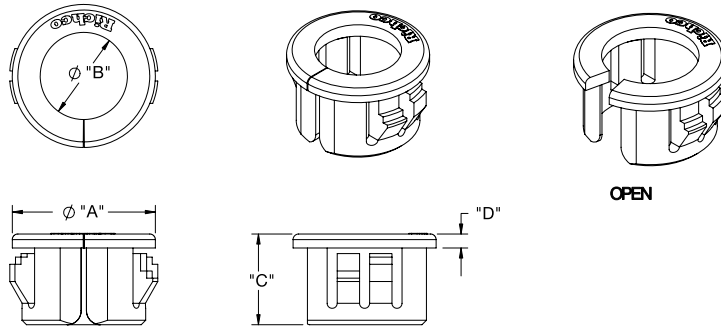
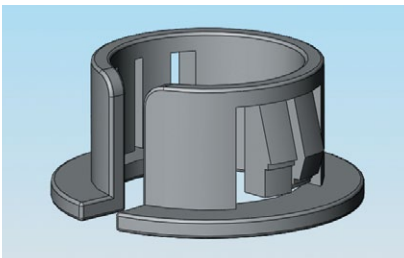
## PGSA Open Bushing



• UL #E320906

| Material: UL94 V2 Nylon 6/6, RMS-01*                                                              |                       |              |             |                       | Color: Black |               |
|---------------------------------------------------------------------------------------------------|-----------------------|--------------|-------------|-----------------------|--------------|---------------|
| Part No.                                                                                          | Panel Thickness Range | Hole Dia.    | "A" Ref.    | "B" Max. Holding Dia. | "C"          | Standard Pack |
| PGSA-0407A                                                                                        | .016-.039 (0.4-1)     | .276 (7)     | .41 (10.4)  | .19 (4.8)             | .20 (5)      | 1,000         |
| PGSA-1013A                                                                                        | .039-.059 (1-1.5)     | .512 (13)    | .64 (16.2)  | .36 (9.2)             | .21 (5.3)    | 500           |
| PGSA-1316A                                                                                        | .039-.055 (1-1.4)     | .630 (16)    | .76 (19.4)  | .48 (12.2)            | .21 (5.4)    |               |
| PGSA-1519A                                                                                        | .039-.059 (1-1.5)     | .748 (19)    | .89 (22.7)  | .56 (14.3)            | .22 (5.7)    |               |
| PGSA-1822A                                                                                        | .031-.063 (0.8-1.6)   | .866 (22)    | 1.00 (25.5) | .69 (17.6)            | .22 (5.6)    |               |
| PGSA-2024A1                                                                                       | .031-.062 (0.8-1)     | .945 (24)    | 1.06 (27)   | .77 (19.5)            | .21 (5.3)    |               |
| PGSA-2024A                                                                                        | .039-.047 (1-1.2)     |              |             | .90 (22.9)            | .24 (6)      | 200           |
| PGSA-2327A                                                                                        | .016-.039 (0.4-1)     | 1.067 (27.1) | 1.38 (35.1) | .97 (24.5)            | .28 (7)      |               |
| PGSA-2529A                                                                                        | .016-.043 (0.4-1.1)   | 1.142 (29)   |             |                       |              |               |
| *Available in UL94 V0 material by special order. To order, add -V0 to the end of the part number. |                       |              |             |                       |              |               |
| Parts available in White by special order. To order, add WH to the end of the part number.        |                       |              |             |                       |              |               |

## PGSB-A Open Bushing



• UL #E320906

| Mat'l: UL94 V2 Nylon 6/6, RMS-01; Color: Black                                               |                        |                       |              |                              |             |            |                  |
|----------------------------------------------------------------------------------------------|------------------------|-----------------------|--------------|------------------------------|-------------|------------|------------------|
| Part Number                                                                                  | Mounting Hole Diameter | Panel Thickness Range | "A" Ref.     | "B" Max. Holding Bundle Dia. | "C"         | "D"        | Standard Package |
| PGSB-0609A                                                                                   | .375 (9.5)             | .028-.067 (0.7-1.7)   | .45 (11.4)   | .260 (6.6)                   | .26 (6.5)   | .051 (1.3) | 1,000            |
| PGSB-1A                                                                                      |                        | .031-.125 (0.8-3.2)   | .42 (10.7)   | .265 (6.7)                   | .390 (9.9)  |            |                  |
| PGSB-2A                                                                                      | .437 (11.1)            |                       | .500 (12.7)  | .312 (7.9)                   | .406 (10.3) | .063 (1.6) |                  |
| PGSB-1013A                                                                                   | .512 (13)              | .031 -.138 (0.8-3.5)  | .59 (14.9)   | .35 (9)                      | .41 (10.5)  | .059 (1.5) | 500              |
| PGSB-3A                                                                                      | .562 (14.3)            | .031-.125 (0.8-3.2)   | .640 (16.3)  | .390 (9.9)                   | .406 (10.3) | .063 (1.6) |                  |
| PGSB-1216A                                                                                   | .650 (16.5)            | .028-.130 (0.7-3.3)   | .73 (18.6)   | .48 (12.3)                   | .390 (10)   | .039 (1)   |                  |
| PGSB-1316A                                                                                   | .630 (16)              | .047-.138 (1.2-3.5)   | .71 (18.0)   | .41 (10.5)                   | .41 (10.5)  | .063 (1.6) |                  |
| PGSB-1519A                                                                                   | .748 (19)              | .047-.130 (1.2-3.3)   | .81 (20.6)   | .57 (14.5)                   | .43 (11)    | .051 (1.3) |                  |
| PGSB-1822A                                                                                   | .866 (22)              | .039-.138 (1-3.5)     | .98 (24.8)   | .68 (17.3)                   | .45 (11.5)  | .063 (1.6) | 200              |
| PGSB-9A                                                                                      | .984 (25)              | .031-.118 (0.8-3)     | 1.039 (26.4) | .803 (20.4)                  |             |            |                  |
| PGSB-4A                                                                                      | 1.0 (25.4)             | .031-.125 (0.8-3.2)   | 1.047 (26.6) | .812 (20.6)                  |             |            |                  |
| PGSB-5A                                                                                      | 1.093 (27.8)           |                       | 1.156 (29.4) | .875 (22.2)                  |             |            |                  |
| PGSB-6A                                                                                      | 1.250 (31.8)           |                       | 1.343 (34.1) | 1.046 (26.6)                 |             |            |                  |
| PGSB-7A                                                                                      | 1.375 (34.9)           |                       | 1.468 (37.3) | 1.171 (29.7)                 |             |            |                  |
| PGSB-8A                                                                                      | 1.500 (38.1)           |                       | 1.578 (40.1) | 1.250 (31.7)                 |             |            |                  |
|                                                                                              |                        |                       |              |                              | .421 (10.7) |            |                  |
| White color available by special order only. To order, add WH to the end of the part number. |                        |                       |              |                              |             |            |                  |



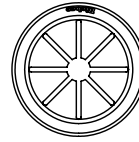
**Richco**

Visit [www.richco-inc.com](http://www.richco-inc.com) for the latest product information

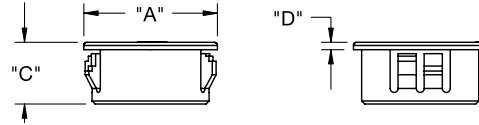
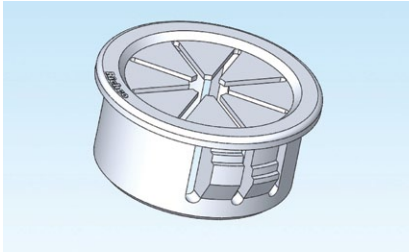
# GROMMETS, BUSHINGS & CABLE GLANDS

## PGSD Snap Bushing

**NEW**



**UL**  
• UL #E320906



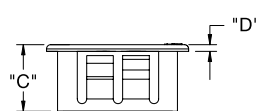
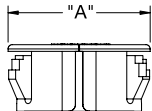
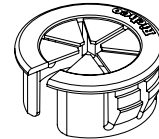
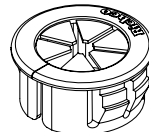
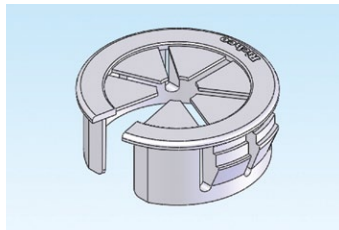
Material: UL94 V2 Nylon 6/6, RMS-01\* Color: Black

| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Black |                      |               |                   |                                |                |            |                  |
|---------------------------------------------------|----------------------|---------------|-------------------|--------------------------------|----------------|------------|------------------|
| Part No.                                          | Max. Panel Thickness | Hole Diameter | Head Diameter "A" | To Accommodate Bundle Diameter | Overall Height | "D"        | Standard Package |
| PGSD-1                                            | .062 (1.57)          | .500 (12.7)   | .600 (15.2)       | .312 (7.9)                     | .250 (6.4)     | .063 (1.6) | 500              |
| PGSD-5                                            | .125 (3.2)           |               |                   |                                | .385 (9.8)     | .041 (1)   |                  |
| PGSD-2                                            | .062 (1.57)          | .625 (15.9)   | .729 (18.5)       | .437 (11.1)                    | .250 (6.4)     | .063 (1.6) |                  |
| PGSD-6                                            | .125 (3.2)           |               |                   |                                | .406 (10.3)    |            |                  |
| PGSD-3                                            | .062 (1.57)          | .750 (19.05)  | .844 (21.4)       | .500 (12.7)                    | .250 (6.4)     | .047 (1.2) | 200              |
| PGSD-7                                            | .125 (3.2)           |               |                   |                                | .390 (9.9)     |            |                  |
| PGSD-4                                            | .062 (1.57)          |               |                   |                                | .250 (6.4)     |            |                  |
| PGSD-8                                            | .125 (3.2)           | .875 (22.2)   | .937 (23.8)       | .560 (14.2)                    | .453 (11.5)    | .063 (1.6) |                  |
| PGSD-9                                            |                      | 1.00 (25.4)   | 1.063 (27)        | .750 (19.1)                    |                |            |                  |
| PGSD-10                                           |                      | 1.375 (34.9)  | 1.490 (37.8)      | 1.00 (25.4)                    | .450 (11.43)   | .059 (1.5) |                  |
| PGSD-11                                           |                      | 1.50 (38.1)   | 1.609 (40.9)      | 1.062 (27)                     |                |            |                  |

\*Available in UL94 V0 material by special order. To order, add -V0 to the end of the part number

Parts available in White by special order. To order, add WH to the end of the part number.

## PGSC Open Snap Bushing



OPEN

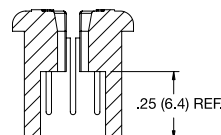
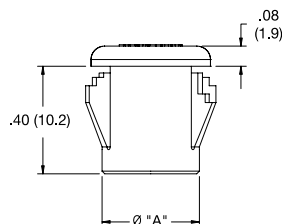
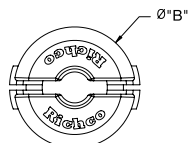
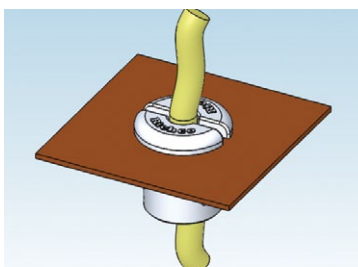
**UL**  
• UL #E320906

Material: UL94 V2 Nylon 6/6, RMS-01 Color: Black

| Part No.   | Hole Diameter           | Panel Thickness Range | "A" Dia. Ref. | To Accommodate Bundle Diameter | "C"         | "D"      | Standard Package |
|------------|-------------------------|-----------------------|---------------|--------------------------------|-------------|----------|------------------|
| PGSC-1319A | .748-.752 (19-19.1)     | .031-.118 (0.8-3)     | .858 (21.8)   | .500 (12.7)                    | .453 (11.5) | .039 (1) | 500              |
| PGSC-1422A | .874-.882 (22.2-22.4)   |                       | .937 (23.8)   | .563 (14.3)                    |             |          | 200              |
| PGSC-1926A | 1.000-1.004 (25.4-25.5) |                       | 1.063 (27)    | .748 (19)                      |             |          |                  |
| PGSC-2128A | 1.095-1.102 (27.8-28)   |                       | 1.161 (29.5)  | .815 (20.7)                    |             |          |                  |

Parts available in White by special order. To order, add WH to the end of the part number.

## SB Snub Bushing



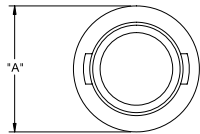
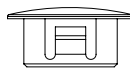
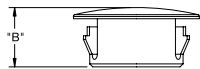
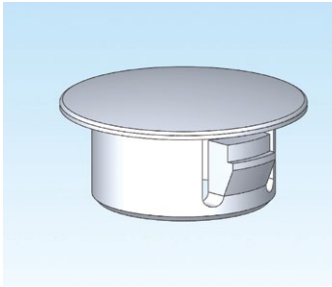
| Mat'l: UL94 V2 Nylon 6/6, RMS-01, Color: Black |            |            | Standard Pack: 1,000 per bag |                 |                            |
|------------------------------------------------|------------|------------|------------------------------|-----------------|----------------------------|
| Part No.                                       | Ø "A"      | Ø "B"      | Panel Hole Dia.              | Panel Thickness | Approx. Cable Holding Dia. |
| SB-1                                           | .36 (9.1)  | .45 (11.4) | 3/8 (9.5)                    | 1/32, 1/16,     | .15 (3.8)                  |
| SB-2                                           | .43 (10.9) | .55 (14.0) | 7/16 (11.1)                  | 3/32, 1/8 (0.8, | .22 (5.6)                  |
| SB-3                                           | .49 (12.4) | .63 (16.0) | 1/2 (12.7)                   | 1.6, 2.4, 3.2)  | .28 (7.1)                  |

**K**

# GROMMETS, BUSHINGS & CABLE GLANDS

## PGM

### Push Grommet Hole Plug



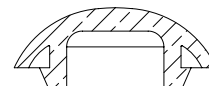
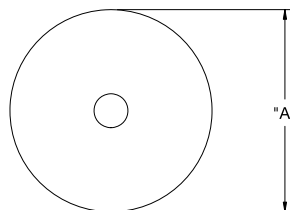
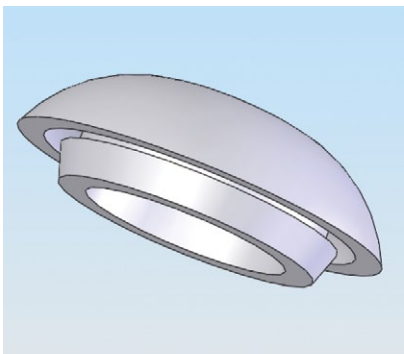
| Material: UL94 V2 Nylon 6/6, RMS-01* Color: Black |               |                      |              |             |                  |
|---------------------------------------------------|---------------|----------------------|--------------|-------------|------------------|
| Part No.                                          | Hole Diameter | Max. Panel Thickness | "A" Dia.     | "B" Ref.    | Standard Package |
| PGM-4                                             | .189 (4.8)    | .067 (1.7)           | .236 (6)     | .205 (5.2)  | 1,000            |
| PGM-1                                             | .250 (6.35)   | .062 (1.57)          | .312 (7.9)   | .312 (7.9)  |                  |
| PGM-6                                             | .252 (6.4)    | .067 (1.7)           | .299 (7.6)   | .221 (5.6)  |                  |
| PGM-7                                             | .278 (7.05)   | .063 (1.6)           | .433 (11)    | .276 (7)    |                  |
| PGM-8                                             | .307 (7.8)    |                      | .375 (9.5)   | .236 (6)    |                  |
| PGM-2                                             | .312 (7.9)    | .062 (1.57)          | .375 (9.5)   | .312 (7.9)  |                  |
| PGM-33                                            | .375 (9.5)    | .125 (3.2)           | .468 (11.9)  | .406 (10.3) |                  |
| PGM-9                                             | .376 (9.55)   | .047 (1.2)           | .511 (13)    | .256 (6.5)  |                  |
| PGM-10                                            | .386 (9.8)    | .055 (1.4)           |              | .236 (6)    |                  |
| PGM-34                                            | .437 (11.1)   | .125 (3.2)           | .531 (13.5)  | .406 (10.3) |                  |
| PGM-3                                             | .468 (11.9)   | .062 (1.57)          | .578 (14.7)  | .250 (6.35) | 500              |
| PGM-24                                            | .50 (12.7)    | .125 (3.2)           |              | .406 (10.3) |                  |
| PGM-5                                             | .500 (12.7)   | .062 (1.57)          | .562 (14.3)  | .250 (6.35) | 200              |
| PGM-13                                            | .506 (12.85)  | .083 (2.1)           | .669 (17)    | .315 (8)    |                  |
| PGM-11                                            | .531 (13.48)  | .062 (1.57)          | .593 (15.1)  | .250 (6.35) | 500              |
| PGM-26                                            | .562 (14.27)  | .125 (3.2)           | .656 (16.7)  | .406 (10.3) |                  |
| PGM-27                                            | .625 (15.88)  |                      | .718 (18.2)  | .250 (6.35) | 200              |
| PGM-12                                            | .625 (15.9)   | .062 (1.57)          | .787 (20)    | .315 (8)    |                  |
| PGM-16                                            | .628 (15.95)  | .079 (2)             |              | .406 (10.3) | 500              |
| PGM-28                                            | .687 (17.45)  | .125 (3.2)           | .781 (19.8)  | .413 (10.5) |                  |
| PGM-19                                            | .746 (18.95)  |                      | .925 (23.5)  | .250 (6.35) | 200              |
| PGM-14                                            | .750 (19.05)  | .062 (1.57)          | .843 (21.4)  | .465 (11.8) |                  |
| PGM-15                                            | .781 (19.84)  |                      | .890 (22.6)  | .512 (13)   | 100              |
| PGM-22                                            | .864 (21.95)  | .118 (3)             | 1.024 (26)   | .378 (9.6)  |                  |
| PGM-17                                            | .875 (22.22)  | .062 (1.57)          | .968 (24.6)  | .250 (6.35) | 200              |
| PGM-29                                            | 1.004 (25.5)  | .125 (3.2)           | 1.125 (28.6) | .453 (11.5) |                  |
| PGM-25                                            | 1.097 (27.86) |                      | 1.102 (28)   | .500 (12.7) | 100              |
| PGM-32                                            | 1.203 (30.55) |                      | 1.218 (30.9) | .465 (11.8) |                  |
| PGM-30                                            | 1.25 (31.75)  |                      | 1.339 (34)   | .512 (13)   | 200              |
| PGM-18                                            | 1.375 (34.93) |                      | 1.375 (34.9) | .465 (11.8) |                  |
| PGM-20                                            | 1.50 (38.1)   |                      | 1.50 (38.1)  | .512 (13)   | 100              |
| PGM-31                                            | 1.750 (44.45) |                      | 1.671 (42.4) | .512 (13)   |                  |
| PGM-21                                            | 2.00 (50.8)   |                      | 1.906 (48.4) | .512 (13)   | 100              |
| PGM-23                                            |               |                      | 2.170 (55.1) | .470 (11.9) |                  |

\*Available in UL94 V0 material by special order. To order, add -V0 to the end of the part number

Parts available in White by special order. To order, add WH to the end of the part number

## LTP

### Liquid Tight Plug



| Mat'l: UL94 V0 Silicone Rubber, RMS-398, Color: Black |                 |             |             |             |                      |               |
|-------------------------------------------------------|-----------------|-------------|-------------|-------------|----------------------|---------------|
| Part No.                                              | Mounting Hole Ø | Head Ø "A"  | "B"         | "C" Ref.    | Max. Panel Thickness | Standard Pack |
| NEW LTP-4                                             | .500 (12.7)     | .92 (23.4)  | .449 (11.4) | .287 (7.3)  | .125 (3.2)           | 1,000         |
| NEW LTP-5                                             | .750 (19.1)     | 1.15 (29.2) | .512 (13)   | .350 (8.9)  |                      | 500           |
| NEW LTP-7                                             | .625 (15.9)     | 1.09 (27.6) | .445 (11.3) | .319 (8.1)  |                      | 500           |
| NEW LTP-1                                             | .875 (22.2)     | 1.26 (32)   | .500 (12.7) | .374 (9.5)  |                      | 1,000         |
| LTP-6                                                 | 1.00 (25.4)     | 1.41 (35.8) | .559 (14.2) | .398 (10.1) |                      | 200           |
| LTP-2                                                 | 1.093 (27.8)    | 1.54 (39.2) | .539 (13.7) | .413 (10.5) |                      | 500           |
| LTP-3                                                 | 1.375 (34.9)    | 1.82 (46.2) | .579 (14.7) | .433 (11)   |                      | 200           |
|                                                       |                 |             |             |             |                      |               |

Offers protection to IP 67.

K

# GROMMETS, BUSHINGS & CABLE GLANDS

## BP Body Plug

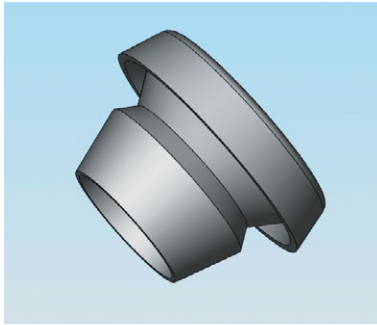


Fig. 1

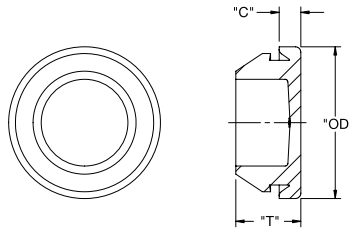
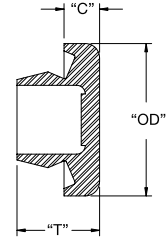


Fig. 2

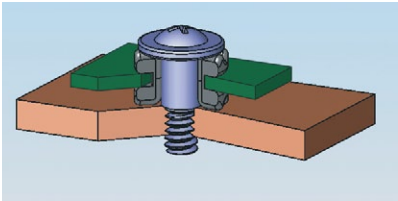


| Material: UL94 HB TPE, Color: Black Standard Pack: 1,000 per bag |                 |                   |                       |               |                 |          |     |
|------------------------------------------------------------------|-----------------|-------------------|-----------------------|---------------|-----------------|----------|-----|
| Part No.                                                         | Panel Hole Dia. | Panel Thickness   | "OD" Outside Diameter | "T" Thickness | "C" Head Height | Material | Fig |
| BP-16230                                                         | .394 (10)       | .032-.079 (0.8-2) | .76 (19.3)            | .43 (10.9)    | .20 (5)         | RMS-262  | 1   |
| BP-16231                                                         | .472 (12)       |                   | .83 (21)              | .45 (11.4)    |                 | RMS-67   |     |
| BP-16232                                                         | .551 (14)       |                   | .91 (23)              |               |                 |          |     |
| BP-16233                                                         | .630 (16)       |                   | .98 (25)              | .47 (12)      |                 | RMS-262  |     |
| BP-16234                                                         | .709 (18)       |                   | 1.06 (27)             | .45 (11.4)    |                 |          |     |
| BP-16236                                                         | .866 (22)       |                   | 1.23 (31.2)           | .43 (10.9)    | .18 (4.5)       |          |     |
| BP-3                                                             | 1.043 (26.5)    | .063-.118 (1.6-3) | 1.10 (28)             | .47 (12)      | .157 (4)        | RMS-168  | 2   |
| BP-4                                                             |                 |                   | 1.28 (32.5)           |               |                 |          |     |
| BP-16238                                                         | 1.181 (30)      | .032-.079 (0.8-2) | 1.55 (39.4)           | .42 (10.7)    | .17(4.25)       | RMS-262  | 1   |
| Offers protection to IP 67 at maximum panel thickness.           |                 |                   |                       |               |                 |          |     |

Offers protection to IP 67 at maximum panel thickness.

## VG/VGS

### Vibration Grommet and Screw

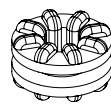


VG

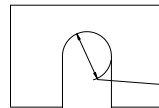
Fig. 1



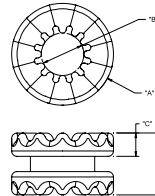
Fig. 2



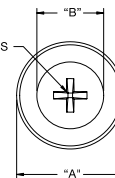
SUGGESTED PANEL



SEE GROMMET TABLE FOR PANEL HOLE SIZE

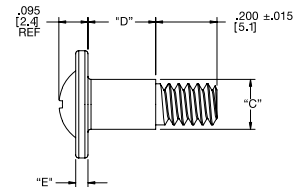


#2 PHILLIPS RECESS



VGS

NEW



| Material: SBR, 60 Shore A, RMS-190 Color: Black |             |            |                 |                 |               |               |      |                |
|-------------------------------------------------|-------------|------------|-----------------|-----------------|---------------|---------------|------|----------------|
| Standard Pack: 1,000 per bag                    |             |            |                 |                 |               |               |      |                |
| Part No.                                        | Dim. "A"    | Dim. "B"   | Panel Thickness | Panel Hole Size | Dim. "C" Typ. | Dim. "D" Ref. | Fig. | Mating Screws  |
| VG-1                                            | .380 (9.7)  | .158 (4)   | .057 (1.45)     | .250 (6.35)     | .087 (2.2)    | .231 (5.9)    | 1    | VGS-1 or VGS-4 |
| VG-2                                            | .565 (14.4) | .188 (4.8) | .063 (1.60)     | .375 (9.53)     | .131 (3.3)    | .324 (8.2)    | 1    | VGS-2 or VGS-5 |
| VG-3                                            | .380 (9.7)  | .158 (4)   | .031 (0.79)     | .250 (6.35)     | .100 (2.5)    | .231 (5.9)    | 1    | VGS-1 or VGS-4 |
| VG-4                                            | .565 (14.4) | .188 (4.8) | .043 (1.09)     | .375 (9.53)     | .141 (3.6)    | .324 (8.2)    | 1    | VGS-2 or VGS-5 |
| VG-5                                            | .374 (9.5)  | .142 (3.6) | .055 (1.4)      | .217 (5.5)      | .083 (2.1)    | .217 (5.5)    | 2    | VGS-3 or VGS-6 |

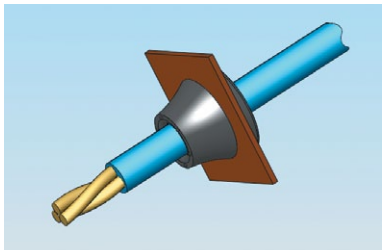
| Material: 1022 Carbon Steel, RMS-352, Finish: Zinc Plate, RMS-354 |                  |                           |             |            |            |            |            |
|-------------------------------------------------------------------|------------------|---------------------------|-------------|------------|------------|------------|------------|
| Standard Pack: 1,000 per bag                                      |                  |                           |             |            |            |            |            |
| Part No.                                                          |                  | Use With Grommet Part No. | "A"         | "B" Ref.   | "C"        | "D"        | "E"        |
| Thread: 6-32 UNC-2A                                               | Thread: M3 X 0.5 |                           |             |            |            |            |            |
| VGS-1                                                             | VGS-4            | VG-1, VG-3                | .350 (8.9)  | .218 (5.5) | .163 (4.1) | .205 (5.2) | .050 (1.3) |
| VGS-2                                                             | VGS-5            | VG-2, VG-4                | .500 (12.7) | .320 (8.1) | .194 (4.9) | .290 (7.4) | .040 (1)   |
| VGS-3                                                             | VGS-6            | VG-5                      | .350 (8.9)  | .218 (5.5) | .146 (3.7) | .195 (5)   | .050 (1.3) |

VG Grommets are sold separately.

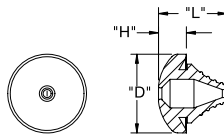
# GROMMETS, BUSHINGS & CABLE GLANDS

## LTG

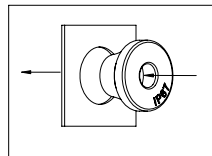
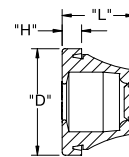
### Liquid Tight Grommet



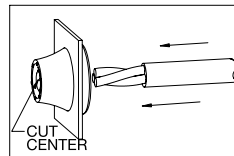
## Style 1



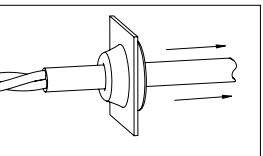
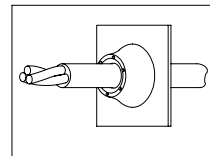
## Style 2



PRESS GROMMET INTO PANEL



CUT CENTER AS SHOWN AND INSERT CABLE THROUGH GROMMET



PULL BACK CABLE TO FORM SEAL

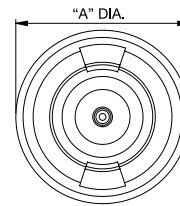
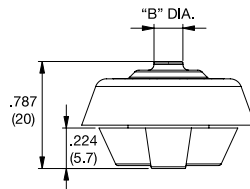
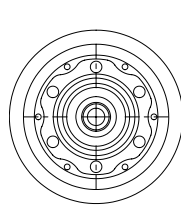
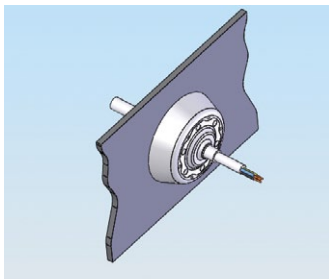
Material: EPDM Rubber, 50 Shore A, RMS-153

| Part Number | Style | Color | Panel Hole Dia. | Panel Thickness     | Cable Size           | "D" Dia. Ref. | "L" Ref.   | "H" Ref.  | Standard Pack |
|-------------|-------|-------|-----------------|---------------------|----------------------|---------------|------------|-----------|---------------|
| LTG-199017  | 1     | Black | .49 (12.5)      | .02 - .08 (0.5 - 2) | .12 - .20 (3 - 5)    | .79 (20)      | .39 (17.5) | .28 (7.1) | 1,000         |
| LTG-1       |       |       | .50 (12.7)      |                     |                      |               | .50 (12.8) | .27 (6.8) |               |
| LTG-39897   | 2     | Grey  | .63 (16)        | .04 - .16 (1 - 4)   | .20 - .26 (5 - 7)    | .83 (21)      | .73 (18.5) | .24 (6.2) |               |
| LTG-34715   |       |       | .75 (19)        |                     | .28 - .39 (7 - 10)   | .94 (24)      | .75 (19)   | .24 (6)   |               |
| LTG-34716   |       |       | .91 (23)        |                     | .39 - .55 (10 - 14)  | 1.10 (28)     | .87 (22.2) | .24 (6.1) | 500           |
| LTG-43021   |       |       | 1.14 (29)       |                     | .55 - .79 (14 - 20)  | 1.33 (33.8)   | .96 (24.4) |           | 250           |
| LTG-2       |       |       | 1.50 (38)       |                     | .79 - .94 (20 - 24)  | 1.81 (46)     | 1.14 (29)  | .26 (6.5) | 100           |
| LTG-3       |       |       | 1.89 (48)       |                     | .98 - 1.26 (25 - 32) | 2.26 (57.5)   | 1.26 (32)  | .31 (8)   |               |

Offers protection to IP 67.

## KCG

### Quick Cable Gland



Material: TPE, RMS-286; Nylon 6/6, RMS-287, Color: Grey

Standard Pack: 50 per bag

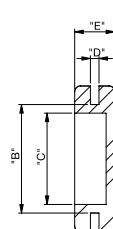
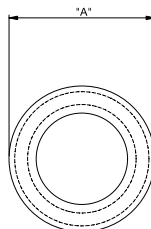
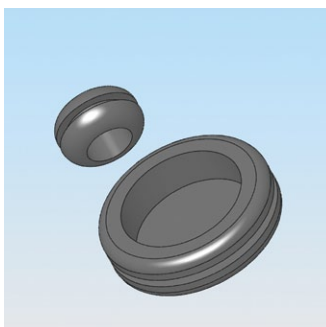
| Part No. | Size | Hole Dia.    | Panel Thickness       | Panel Thickness for IP67 | Cable Size       | Anchorage Type A For Cable Dia. | "B" Dia. | "A"                     |
|----------|------|--------------|-----------------------|--------------------------|------------------|---------------------------------|----------|-------------------------|
| KCG-1    | M20  | .807 (20.5)  | .059 - .196 (1.5 - 5) | .078 - .196 (2 - 5)      | .157-.433 (4-11) | .275-.433 (7-11)                | .157 (4) | 1.153-1.358 (29.3-34.5) |
| KCG-2    | M25  | 1.003 (25.5) |                       |                          | .157-.551 (4-14) | .275-.511 (7-13)                | .196 (5) | 1.350-1.574 (34.3-40)   |

\*\*"A" Dimension varies depending on the thickness of the material installed in.

Offers protection to IP 67 at panel thickness and cable dia. indicated

## DGB

### Blank Diaphragm Grommet



Material: TPE, RMS-262 • Color: Black

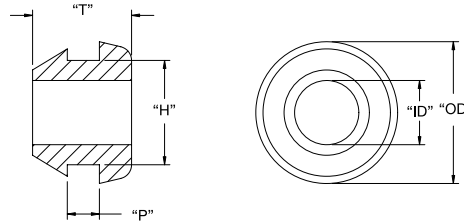
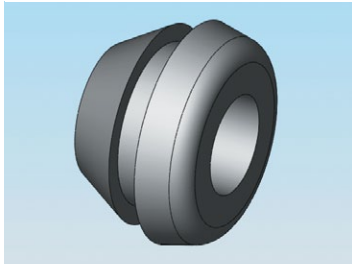
Standard Pack: 1,000 per bag

| Part No | "A"         | Panel Hole Size "B" | "C"        | "D"       | "E"       |
|---------|-------------|---------------------|------------|-----------|-----------|
| DGB-2.5 | .37 (9.4)   | .25 (6.4)           | .16 (4.1)  | .03 (0.8) | .14 (3.6) |
| DGB-4   | .50 (12.7)  | .39 (9.9)           | .25 (6.4)  |           | .26 (6.6) |
| DGB-5   | .62 (15.7)  | .49 (12.5)          | .37 (9.5)  |           | .25 (6.4) |
| DGB-6   | .69 (17.5)  | .43 (11)            | .31 (8)    |           | .31 (8)   |
| DGB-7   | .75 (19)    | .63 (16)            | .43 (11)   |           |           |
| DGB-10  | 1.00 (25.5) | .87 (22)            | .72 (18.4) |           |           |
| DGB-11  | 1.00 (25.5) | .75 (19)            | .63 (16)   |           |           |
| DGB-13  | 1.18 (30)   | 1.00 (25.5)         | .81 (20.5) | .06 (1.5) | .28 (7)   |
|         |             |                     |            |           | .31 (8)   |



# GROMMETS, BUSHINGS & CABLE GLANDS

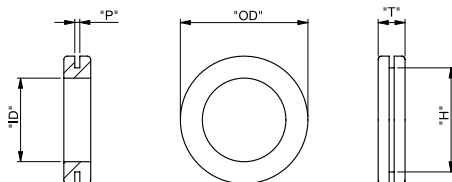
## QFG Quick Fit Grommet



Standard Pack: 1,000 per bag Color: Black

| Part No.  | "T"         | "P" Panel Thickness | "H" Mounting Hole Diameter | "ID" Inside Diameter Ref. | "OD" Outside Diameter Ref. | Material                 |
|-----------|-------------|---------------------|----------------------------|---------------------------|----------------------------|--------------------------|
| QFG-16200 | .315 (8)    | .06 (1.5)           | .39 (10)                   | .24 (6)                   | .53 (13.5)                 | TPE, RMS-262             |
| QFG-16220 | .375 (9.5)  | .12 (3)             |                            |                           |                            |                          |
| QFG-16201 | .315 (8)    | .06 (1.5)           | .43 (11)                   | .28 (7)                   | .57 (14.5)                 |                          |
| QFG-16222 | .375 (9.5)  | .12 (3)             | .47 (12)                   | .32 (8)                   | .61 (15.5)                 |                          |
| QFG-16203 | .315 (8)    | .06 (1.5)           | .55 (14)                   | .39 (10)                  | .69 (17.5)                 | PVC, RMS-25              |
| QFG-16223 | .375 (9.5)  | .12 (3)             |                            |                           |                            |                          |
| QFG-16204 | .315 (8)    | .06 (1.5)           | .63 (16)                   | .47 (12)                  | .77 (19.5)                 | TPE, RMS-262             |
| QFG-16224 | .375 (9.5)  | .12 (3)             |                            |                           |                            |                          |
| QFG-16205 | .315 (8)    | .06 (1.5)           | .71 (18)                   | .55 (14)                  | .85 (21.5)                 | PVC, RMS-25              |
| NEW QFG-1 | .449 (11.4) | .138 (3.5) Max.     | .728-.787 (18.5-20)        | .512 (13)                 | .965 (24.5)                | Silicone Rubber, RMS-368 |
| QFG-16207 | .315 (8)    | .06 (1.5)           | .87 (22)                   | .71 (18)                  | 1.00 (25.4)                | TPE, RMS-262             |
| NEW QFG-2 | .409 (10.4) | .138 (3.5) Max.     | .984-1.024 (25-26)         | .709 (18)                 | 1.16 (29.5)                | Silicone Rubber, RMS-368 |
| QFG-16228 | .375 (9.5)  | .12 (3)             | 1.02 (26)                  | .87 (22)                  |                            | TPE, RMS-262             |
| QFG-16209 | .315 (8)    | .06 (1.5)           | 1.10 (28)                  | .94 (24)                  | 1.24 (31.5)                | PVC, RMS-25              |
| QFG-16229 | .375 (9.5)  | .12 (3)             |                            |                           |                            |                          |

## HG Hole Grommet



Material: UL94 HB, RMS-262\*, Color: Black

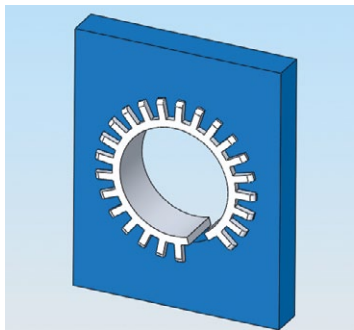
Standard Pack: 1,000 per bag

| Part No. | "H" Mounting Hole Dia. | "P" Panel Thickness | "ID" Inside Diameter | "OD" Outside Diameter | "T"        |
|----------|------------------------|---------------------|----------------------|-----------------------|------------|
| HG-2     | .190 (4.8)             | .063 (1.6)          | .126 (3.2)           | .315 (8)              | .252 (6.4) |
| HG-2.5   | .252 (6.4)             |                     | .148 (4)             | .374 (9.5)            | .248 (6.3) |
| HG-3     | .305 (7.7)             | .032 (0.8)          | .188 (4.8)           |                       | .188 (4.8) |
| HG-3.5   | .315 (8)               | .063 (1.6)          | .217 (5.5)           | .430 (10.9)           | .217 (5.5) |
| HG-4     | .375 (9.5)             | .095 (2.4)          | .252 (6.4)           | .559 (14.2)           | .276 (7)   |
| HG-5     | .430 (10.9)            | .063 (1.6)          | .313 (8)             | .562 (14.3)           | .188 (4.8) |
| HG-17    | .433 (11)              | .079 (2)            | .315 (8)             | .630 (16)             |            |
| HG-6     | .492 (12.5)            | .063 (1.6)          | .374 (9.5)           | .669 (17)             | .276 (7)   |
| HG-8     | .660 (16.8)            |                     | .495 (12.6)          | .846 (21.5)           | .250 (6.4) |
| HG-9     | .675 (17.1)            |                     | .558 (14.2)          | .875 (22.2)           |            |
| HG-11    | .735 (18.7)            |                     | .672 (17.1)          | .933 (23.7)           | .188 (4.8) |
| HG-10    | .742 (18.8)            | .095 (2.4)          | .610 (15.5)          | .875 (22.2)           | .219 (5.6) |
| HG-18    | .748 (19)              |                     | .500 (12.7)          | .945 (24)             | .280 (7.1) |
| HG-12    | .976 (24.8)            |                     | .734 (18.6)          | 1.234 (31.3)          |            |
| HG-14    | .990 (25.1)            |                     | .860 (21.8)          | 1.188 (30.2)          | .313 (8)   |
| HG-16    | 1.24 (31.5)            | .063 (1.6)          | .970 (24.6)          | 1.500 (38.1)          |            |

\*Available in UL94 V0 material by special order. To order, add -V0 to the end of the part no.

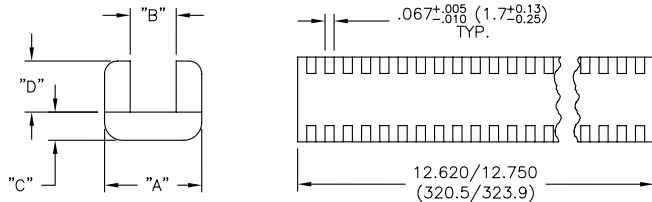
Other colors available by special order

## MGS Molded Grommet Strip



### Features

- Complies with NASM21266
- Minimum hole dia. = 1 (25.4)



Material: Nylon 6/6, RMS-01 • Color: Natural

Standard Pack: 100 per bag

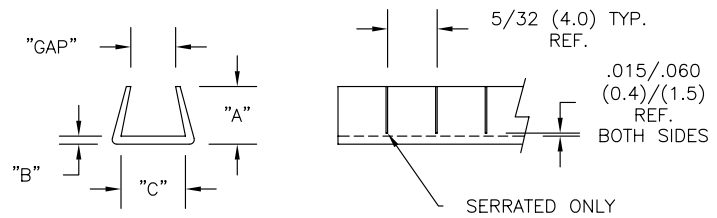
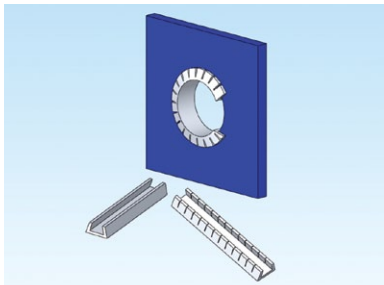
| Part No. | Panel Thickness (Ref.)  | "A" +.015/-0.005 (+0.38/-0.13) | "B" +.015/-0.005 (+0.38/-0.13) | "C" +.015/-0.005 (+0.38/-0.13) | "D" +.020/-0.005 (+0.38/-0.13) |
|----------|-------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| MGS-1-01 | .015 - .052 (0.4 - 1.3) | .150 (3.8)                     | .056 (1.4)                     | .055 (1.4)                     | .10 (2.5)                      |
| MGS-2-01 | .052 - .085 (1.3 - 2.2) | .175 (4.4)                     | .090 (2.3)                     |                                |                                |
| MGS-3-01 | .085 - .128 (2.2 - 3.3) | .220 (5.6)                     | .131 (3.3)                     |                                |                                |
| MGS-4-01 | .128 - .192 (3.3 - 4.9) | .325 (8.3)                     | .195 (5)                       | .070 (1.8)                     | .16 (4.1)                      |
| MGS-5-01 | .192 - .255 (4.9 - 6.5) | .385 (9.8)                     | .260 (6.6)                     |                                | .17 (4.3)                      |
| MGS-6-01 | .255 - .318 (6.5 - 8.1) | .445 (11.3)                    | .320 (8.1)                     |                                | .18 (4.6)                      |



# GROMMETS, BUSHINGS & CABLE GLANDS

## NGS/PGS/SNGS/SPGS

### Continuous Grommet Strip



#### Features

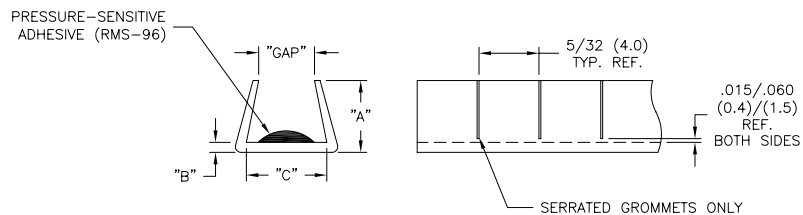
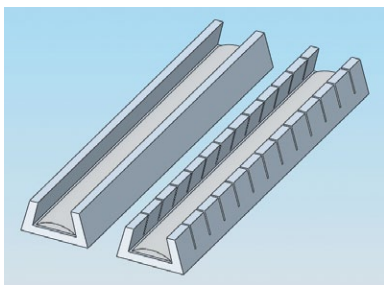
- Use product on irregularly shaped or round panel hole

| Standard Pack: 100 Foot Roll (30M)         |                  |         |                          |                       |             |            |            |            |
|--------------------------------------------|------------------|---------|--------------------------|-----------------------|-------------|------------|------------|------------|
| Part No.                                   |                  | Color   | Material                 | Panel Thickness Range | “GAP” Ref.  | “A” Ref.   | “B” Ref.   | “C” Ref.   |
| Solid Lengths                              | Serrated Lengths |         |                          |                       |             |            |            |            |
| NGS-1                                      | SNGS-1           | Natural | UL94 HB Nylon,<br>RMS-88 | .026-.036 (0.7-0.9)   | .018 (0..5) | .125 (3.2) | .031 (0.8) | .031 (0.8) |
| -                                          | SNGS-1B          | Black   |                          | .037-.071 (0.9-1.8)   | .037 (0.9)  | .172 (4.4) |            | .109 (2.8) |
| NGS-2                                      | SNGS-2           | Natural |                          |                       |             |            |            |            |
| -                                          | SNGS-2B          | Black   |                          | .072-.105 (1.8-2.7)   | .060 (1.5)  | .188 (4.8) | .047 (1.2) | .156 (4)   |
| -                                          | SNGS-2.5         | Natural |                          |                       |             |            |            |            |
| -                                          | SNGS-2.5B        | Black   |                          |                       |             |            |            |            |
| -                                          | SNGS-3           | Natural |                          | .106-.164 (2.7-4.2)   | .106 (2.7)  | .188 (4.8) | .188 (4.8) |            |
| -                                          | SNGS-3B          | Black   |                          |                       |             |            |            |            |
| -                                          | SNGS-4           | Natural |                          | .165-.187 (4.2-4.7)   | .165 (4.2)  | .187 (4.8) | .250 (6.4) |            |
| -                                          | SNGS-4B          | Black   |                          |                       |             |            |            |            |
| -                                          | SNGS-5           | Natural | .188-.250 (4.8-6.4)      | .187 (4.8)            |             |            |            |            |
| -                                          | SNGS-5B          | Black   |                          |                       |             |            |            |            |
| PGS-1                                      | SPGS-1           | Natural | Polyethylene,<br>RMS-418 | .026-.036 (0.7-0.9)   | .018 (0.5)  | .125 (3.2) | .031 (0.8) | .031 (0.8) |
| PGS-1B                                     | -                | Black   |                          | .037-.071 (0.9-1.8)   | .037 (0.9)  | .172 (4.4) |            | .109 (2.8) |
| PGS-2                                      | SPGS-2           | Natural |                          |                       |             |            |            |            |
| PGS-2.5                                    | SPGS-2.5         | Natural |                          | .072-.105 (1.8-2.7)   | .060 (1.5)  | .188 (4.8) | .047 (1.2) | .156 (4)   |
| PGS-2.5B                                   | SPGS-2.5B        | Black   |                          |                       |             |            |            |            |
| PGS-3                                      | SPGS-3           | Natural |                          | .106-.164 (2.6-4.2)   | .106 (2.7)  | .188 (4.8) | .047 (1.2) | .156 (4)   |
| Custom lengths available by special order. |                  |         |                          |                       |             |            |            |            |

Custom lengths available by special order.

## NGSG/SNGSG/PGSG/SPGSG

### Continuous Grommet Strip with Adhesive



| Standard Pack: 100 Foot Roll (30M) |                  |         |                       |                       |            |            |            |            |
|------------------------------------|------------------|---------|-----------------------|-----------------------|------------|------------|------------|------------|
| Part No.                           |                  | Color   | Material              | Panel Thickness Range | "GAP" Ref. | "A" Ref.   | "B" Ref.   | "C" Ref.   |
| Solid Lengths                      | Serrated Lengths |         |                       |                       |            |            |            |            |
| NGSG-2                             | SNGSG-2          | Natural | UL94 HB Nylon, RMS-88 | .037-.071 (0.9-1.8)   | .037 (0.9) | .172 (4.4) | .031 (0.8) | .109 (2.8) |
| -                                  | SNGSG-2B         | Black   |                       | .072-.105 (1.8-2.7)   | .060 (1.5) | .188 (4.8) | .047 (1.2) | .156 (4)   |
| NGSG-2.5                           | SNGSG-2.5        | Natural |                       |                       |            |            |            |            |
| NGSG-3                             | SNGSG-3          | Natural | Polyethylene, RMS-418 | .106-.164 (2.7-4.2)   | .106 (2.7) | .188 (4.8) | .047 (1.2) | .156 (4)   |
| PGSG-2                             | SPGSG-2          | Natural |                       | .037-.071 (0.9-1.8)   | .037 (0.9) | .172 (4.4) | .031 (0.8) | .109 (2.8) |
| PGSG-2B                            | SPGSG-2B         | Black   |                       |                       |            |            |            |            |
| PGSG-6*                            | SPGSG-6*         | Natural |                       |                       |            |            |            |            |
| PGSG-6B*                           | -                | Black   |                       | .072-.105 (1.8-2.7)   | .060 (1.5) | .172 (4.4) | .031 (0.8) | .109 (2.8) |
| PGSG-2.5                           | SPGSG-2.5        | Natural |                       |                       |            |            |            |            |
| PGSG-2.5B                          | SPGSG-2.5B       | Black   |                       |                       |            |            |            |            |
| -                                  | SPGSG-7*         | Natural |                       | .106-.164 (2.6-4.2)   | .106 (2.7) | .188 (4.8) | .047 (1.2) | .156 (4)   |
| PGSG-3                             | SPGSG-3          | Natural |                       |                       |            |            |            |            |
| PGSG-3B                            | SPGSG-3B         | Black   |                       |                       |            |            |            |            |
| -                                  | SPGSG-8*         | Natural |                       |                       |            |            |            |            |

\*Parts are extra flexible

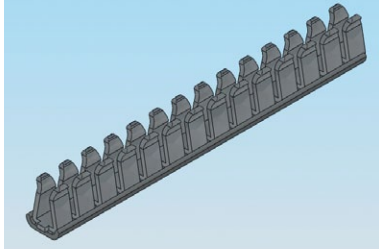
Custom lengths available by special order.

K

# GROMMETS, BUSHINGS & CABLE GLANDS

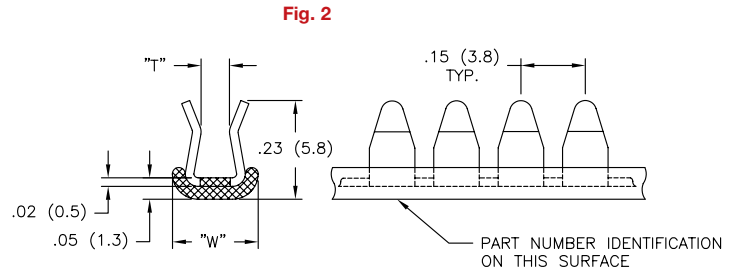
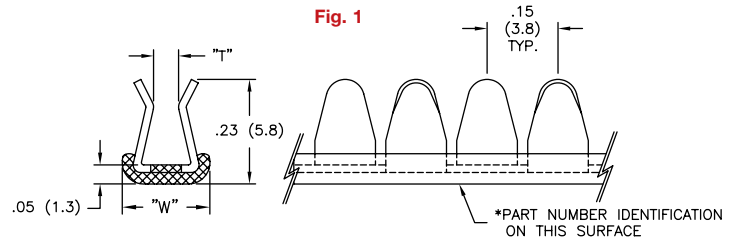
## MCCG/MCCGF

### Metal Continuous Cushioned Grommet



#### Features

- Dielectric Strength: 1500 volts @ 60 Hz
- Operating Temperature Range: -40°F to 185°F (-40°C to 85°C)
- UL94 V0 flammability rating
- MCCGF Series is more flexible than the MCCG series because of its design.

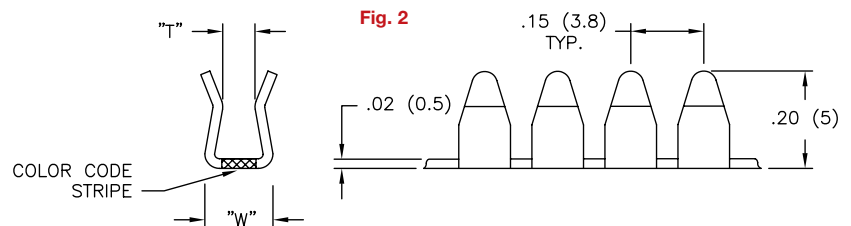
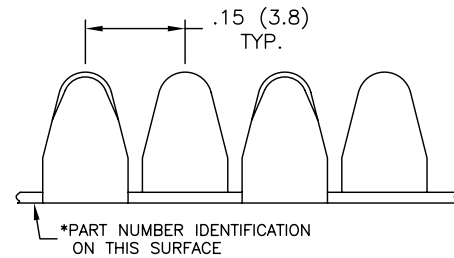
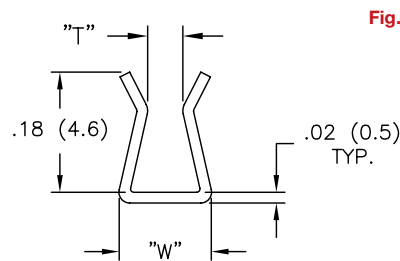
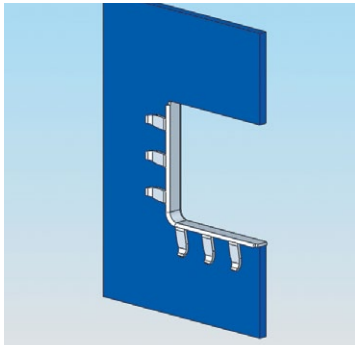


| MCCG/MCCGF | Material: 304 Stainless Steel, RMS-283; Coating: Nylon 11, RMS-192, Color: Black; Cushion: TPE, 60 Shore D, RMS-300, Color: Black |                           | Standard Pack: 100 Ft. (30M) Reel |
|------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------|
|            | Fig.                                                                                                                              | "T" Application Thickness | "W"                               |
| MCCG-1N    | 1                                                                                                                                 | .029 - .045 (0.7 - 1.1)   | .19 (4.8)                         |
| MCCG-2N    |                                                                                                                                   | .044 - .056 (1.1 - 1.4)   |                                   |
| MCCG-3N    |                                                                                                                                   | .055 - .069 (1.4 - 1.7)   |                                   |
| MCCG-4N    |                                                                                                                                   | .069 - .090 (1.7 - 2.3)   |                                   |
| MCCG-6N    |                                                                                                                                   | .113 - .130 (2.9 - 3.3)   |                                   |
| MCCGF-1N   | 2                                                                                                                                 | .029 - .045 (0.7 - 1.1)   | .19 (4.8)                         |
| MCCGF-2N   |                                                                                                                                   | .044 - .056 (1.1 - 1.4)   |                                   |
| MCCGF-3N   |                                                                                                                                   | .055 - .069 (1.4 - 1.7)   |                                   |

Hand held cutting tool needed, order part number MCGS-1

## MCG/MCGF

### Metal Continuous Grommet



#### Features

- Dielectric Strength: 1000 volts @ 60 Hz
- Operating Temperature Range: -40°F to 285°F (-40°C to 140°C)
- UL94 V0 flammability rating
- MCGF Series is more flexible than the MCG series because of its design.

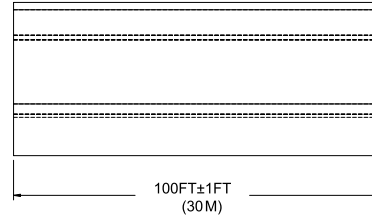
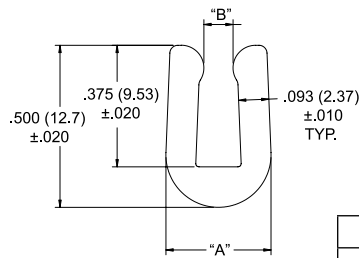
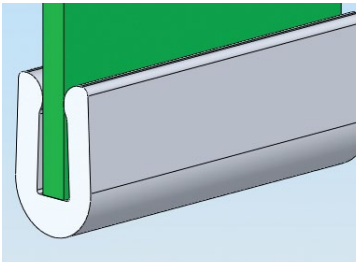
| MCG/MCGF | Material: 304 Stainless Steel, RMS-283; Coating: Nylon 11, RMS-192, Color: Black |                           | Standard Pack: 100 Ft. (30M) Reel |
|----------|----------------------------------------------------------------------------------|---------------------------|-----------------------------------|
|          | Fig.                                                                             | "T" Application Thickness | "W"                               |
| MCG-1N   | 1                                                                                | .029 - .045 (0.7 - 1.1)   | .14 (3.6)                         |
| MCG-2N   |                                                                                  | .044 - .056 (1.1 - 1.4)   |                                   |
| MCG-3N   |                                                                                  | .055 - .069 (1.4 - 1.7)   |                                   |
| MCG-4N   |                                                                                  | .069 - .090 (1.7 - 2.3)   |                                   |
| MCG-6N   |                                                                                  | .113 - .130 (2.9 - 3.3)   |                                   |
| MCGF-1N  | 2                                                                                | .029 - .045 (0.7 - 1.1)   | .13 (3.3)                         |
| MCGF-2N  |                                                                                  | .044 - .056 (1.1 - 1.4)   |                                   |
| MCGF-3N  |                                                                                  | .055 - .069 (1.4 - 1.7)   |                                   |

Hand held cutting tool needed, order part number MCGS-1

# GROMMETS, BUSHINGS & CABLE GLANDS

## RG

### Rubber Edge Grommet



Material: TPE, RMS-214 Color: Black

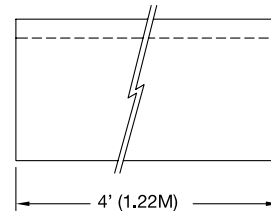
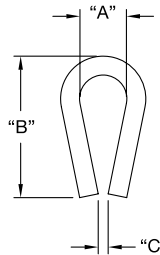
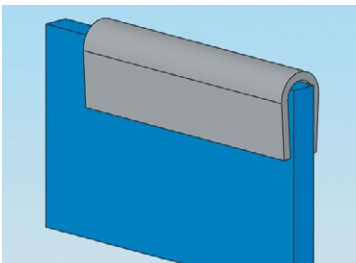
Standard Pack: 100 Foot Roll (30M)

| Part No. | Panel Thickness | "A" Ref.    | "B" Max     |
|----------|-----------------|-------------|-------------|
| RG-1     | .063 (1.6)      | .264 (6.74) | .030 (0.76) |
| RG-2     | .093 (2.36)     | .293 (7.44) | .060 (1.52) |
| RG-3     | .125 (3.18)     | .324 (8.23) | .090 (2.29) |

Custom lengths available by special order

## DSC

### Duro-Strip Channel



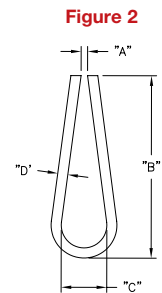
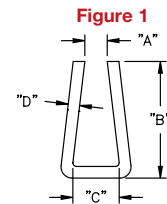
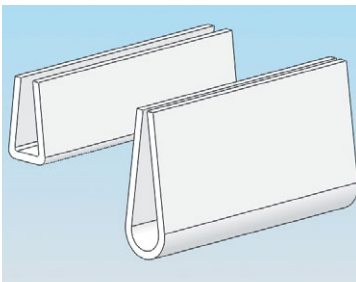
Material: MDS Filled Nylon, RMS-21 • Color: Grey

| Part No  | "A" ± .015 (0.4) | "B" ± .031 (±0.8) | "C" Ref.   | Wall Thickness | Std. Pkg.                                  |
|----------|------------------|-------------------|------------|----------------|--------------------------------------------|
| DSC-5-48 | .062 (1.6)       | .300 (7.6)        | .031 (0.8) | .031 (0.8)     | 100' (30M): 4' (1.22M) lengths x 25 pieces |
| DSC-1-48 | .125 (3.2)       | .375 (9.5)        | .020 (0.5) | .047 (1.2)     |                                            |
| DSC-2-48 | .188 (4.8)       | .500 (12.7)       | .031 (0.8) | .063 (1.6)     |                                            |
| DSC-3-48 | .250 (6.4)       | .625 (15.9)       | .045 (1.1) | .063 (1.6)     |                                            |

Custom lengths available by special order

## CH

### Channel



Material: Polystyrene, RMS-16 • Color: White

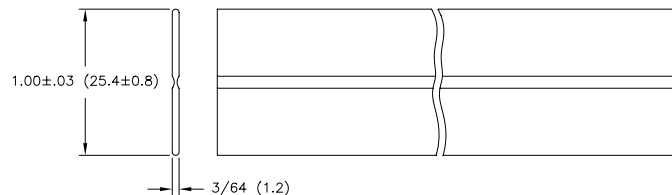
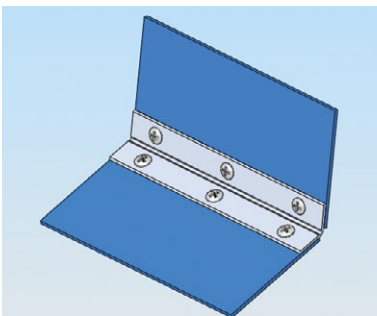
| Part No.     | Standard Pack: 100' (30M): 4' (1.22M) lengths x 25 |             |            |            |        |
|--------------|----------------------------------------------------|-------------|------------|------------|--------|
|              | "A" Ref.                                           | "B"         | "C" Min.   | "D" Typ.   | Fig. # |
| CH200X250-48 | .200 (5.1)                                         | 3/8 (9.5)   | 1/4 (6.4)  | 1/32 (0.8) | 1      |
| CH15X50-48   | .015 (0.4)                                         | 7/16 (11.1) | .05 (1.3)  |            | 2      |
| CH20X141-48  | .020 (0.5)                                         | 9/16 (14.3) | 9/64 (3.6) |            |        |

Other colors available by special order.

Custom lengths available by special order.

## SLH-16-1

### Single Living Hinge



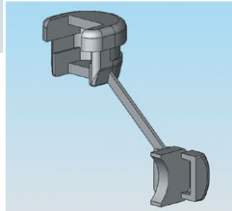
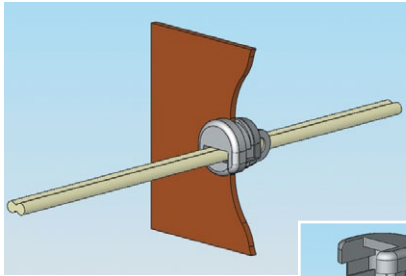
Material: Polypropylene, RMS-54  
Color: Natural

Standard Pack: 100 ft. (30M) Rolls

Custom lengths available by special order.

# GROMMETS, BUSHINGS & CABLE GLANDS

## SRB-F/R Strain Relief Bushing



### Features

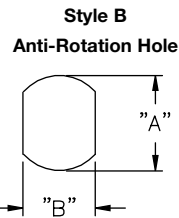
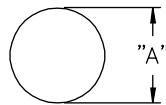
- SRPL-2 Tool is required for installation

**UL**  
• UL #E107293

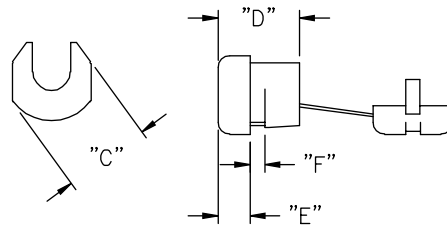


SRB Installation Tool Sold Separately  
Part Number: SRPL-2

### Mounting Holes Style A



### Bushing Dimensions



| Material: UL94 V2 Nylon 6/6, RMS-315 Color: Black |                    |             |                      |                |             |             |             |            |                          |               |            |
|---------------------------------------------------|--------------------|-------------|----------------------|----------------|-------------|-------------|-------------|------------|--------------------------|---------------|------------|
| Part No.                                          | Wires Accommodated | Fits Cables |                      | Mounting Holes |             | “C” Ref.    | “D”         | “E” Ref.   | “F” Max. Panel Thickness | Standard Pack |            |
|                                                   |                    | Shape       | Approx. Size         | “A”            | “B”         |             |             |            |                          |               |            |
| SRB-F-1                                           | SPT-1              | Flat        | .118X.220 (3X5.6)    | .374 (9.5)     | .343 (8.7)  | .425 (10.8) | .408 (10.4) | .157 (4)   | .063 (1.6)               | 1,000         |            |
| SRB-F-3                                           |                    |             |                      | .433 (11)      | .390 (9.9)  | .476 (12.1) |             | .126 (3.2) | .098 (2.5)               |               |            |
| SRB-F-6                                           |                    |             |                      |                |             | .492 (12.5) |             |            |                          |               |            |
| SRB-F-8                                           | SPT-2              |             | .146X.299 (3.71X7.6) | .500 (12.7)    | .465 (11.8) | .547 (13.9) | .413 (10.5) | .157 (4)   | .063 (1.6)               |               |            |
| SRB-F-9                                           |                    |             | .150X.299 (3.8X7.6)  | .516 (13.1)    |             |             |             |            | .098 (2.5)               |               |            |
|                                                   |                    |             | .146X.299 (3.71X7.6) | .500 (12.7)    |             |             |             |            |                          |               |            |
| SRB-R-1                                           | SVI                |             | .252 (6.4)           | .500 (12.7)    | .453 (11.5) | .559 (14.2) | .429 (10.9) | .165 (4.2) | .063 (1.6)               |               | 500        |
|                                                   | SVT                |             | .291 (7.4)           | .516 (13.1)    |             |             |             |            |                          |               |            |
| SRB-R-2                                           | SVI                |             | .252 (6.4)           | .500 (12.7)    |             |             |             |            |                          |               |            |
|                                                   | SVT                |             | .291 (7.4)           | .516 (13.1)    |             |             |             |            |                          |               |            |
| SRB-R-3                                           | SJT #18/3          | Round       | .299 (7.6)           | .626 (15.9)    | .551 (14)   | .701 (17.8) | .583 (14.8) | .220 (5.6) | .063 (1.6)               | 100           |            |
| SRB-R-4                                           |                    |             |                      |                |             | .693 (17.6) |             |            | .126 (3.2)               |               |            |
| SRB-R-7                                           |                    |             |                      |                |             | .701 (17.8) |             |            | .063 (1.6)               |               |            |
| SRB-R-8                                           | SJT #16/3          |             | .323-.362 (8.2-9.2)  |                |             | .681 (17.3) |             |            | .228 (5.8)               |               | .126 (3.2) |
| SRB-R-9                                           | SJT #14/3          |             | .362-.413 (9.2-10.5) | .748 (19)      | .650 (16.5) | .847 (21.5) | .750 (19.1) | .307 (7.8) | .063 (1.6)               |               |            |
|                                                   |                    |             | .433 (11)            | .780 (19.8)    |             |             |             |            |                          |               |            |
| SRB-R-10                                          |                    |             | .362-.413 (9.2-10.5) | .748 (19)      |             | .854 (21.7) | .764 (19.4) |            | .126 (3.2)               |               |            |
|                                                   |                    |             | .433 (11)            | .780 (19.8)    |             |             |             |            |                          |               |            |

NEW

NEW

K

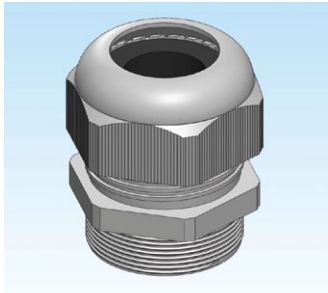
# GROMMETS, BUSHINGS & CABLE GLANDS

## CG-NPT

Cable Gland - NPT Thread

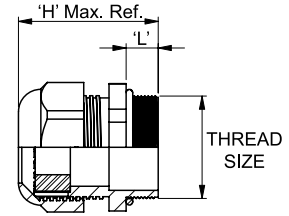
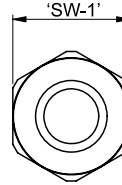
**NEW**

**CR US**  
• UL #E336396



### Features

- See CGLN series on the following page for mating locknuts
- Protection Class: IP68 - 5 Bar
- Operating temperature: -4°F - 212°F (-20°C -100°C)



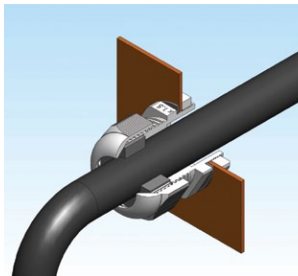
| Mat'l: Body and Nut: UL94 V2 Nylon 6, RMS-36; Sealing Gland: CR/NBR, RMS-37; O-Ring: NBR, RMS-41*        |                  |           |             |                                                    |             |            |               |               |
|----------------------------------------------------------------------------------------------------------|------------------|-----------|-------------|----------------------------------------------------|-------------|------------|---------------|---------------|
| Color: Black (RAL 9005)                                                                                  |                  |           |             |                                                    |             |            |               |               |
| Part No.                                                                                                 | Cable Dia. Range |           | Thread Size | Suggested Clearance Hole for Non-Threaded Mounting | “L”         | “SW-1”     | “H” Max. Ref. | Standard Pack |
|                                                                                                          | Min. Dia.        | Max. Dia. |             |                                                    |             |            |               |               |
| CG-NPT-3/8-1-BK                                                                                          | .118 (3)         | .276 (7)  | NPT-3/8     | .670 (17)                                          | .571 (14.5) | .866 (22)  | 1.752 (44.5)  | 100           |
| CG-NPT-3/8-2-BK                                                                                          | .197 (5)         | .394 (10) |             |                                                    |             | .945 (24)  | 1.772 (45)    |               |
| CG-NPT-1/2-1-BK                                                                                          | .197 (5)         | .236 (9)  |             |                                                    |             | 1.063 (27) | 1.870 (47.5)  |               |
| CG-NPT-1/2-2-BK                                                                                          | .276 (7)         | .472 (12) | .591 (15)   | 1.299 (33)                                         | 2.047 (52)  |            |               | 50            |
| CG-NPT-1/2-3-BK                                                                                          | .394 (10)        | .551 (14) |             |                                                    |             |            |               |               |
| CG-NPT-3/4-1-BK                                                                                          | .236 (9)         | .630 (16) |             |                                                    |             |            |               |               |
| CG-NPT-3/4-2-BK                                                                                          | .551 (14)        | .709 (18) | NPT-3/4     | 1.068 (27.1)                                       |             |            |               |               |
| CG-NPT-1-1-BK*                                                                                           | .472 (12)        | .787 (20) | NPT-1       | 1.350 (34.3)                                       | .709 (18)   | 1.654 (42) | 2.382 (60.5)  | 25            |
| CG-NPT-1-2-BK*                                                                                           | .748 (19)        | .984 (25) |             |                                                    |             |            |               |               |
| *O-Ring included only with NPT-1 Thread                                                                  |                  |           |             |                                                    |             |            |               |               |
| Parts available in Grey (RAL 7035) by Special Order. To order, remove -BK at the end of the part number. |                  |           |             |                                                    |             |            |               |               |

## CG-PG

Cable Gland - PG Thread

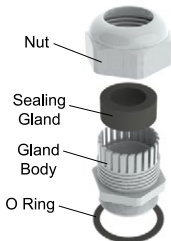
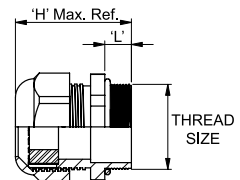
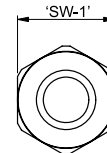
**NEW**

**CR US**  
• UL #E336396



### Features

- See CGLN series on the following page for mating locknuts
- Protection Class: IP68 - 5 Bar
- Operating temperature: -4°F - 212°F (-20°C -100°C)



| Mat'l: Body and Nut: UL94 V2 Nylon 6, RMS-36; Sealing Gland: CR/NBR, RMS-37; O-Ring: NBR, RMS-41*        |                  |            |             |                                                    |           |            |               |               |
|----------------------------------------------------------------------------------------------------------|------------------|------------|-------------|----------------------------------------------------|-----------|------------|---------------|---------------|
| Color: Black (RAL 9005)                                                                                  |                  |            |             |                                                    |           |            |               |               |
| Part No.                                                                                                 | Cable Dia. Range |            | Thread Size | Suggested Clearance Hole for Non-Threaded Mounting | "L"       | "SW-1"     | "H" Max. Ref. | Standard Pack |
|                                                                                                          | Min. Dia.        | Max. Dia.  |             |                                                    |           |            |               |               |
| CG-PG7-1-BK                                                                                              | .079 (2)         | .197 (5)   | PG7         | .500 (12.7)                                        | .315 (8)  | .591 (15)  | 1.201 (30.5)  | 100           |
| CG-PG7-2-BK                                                                                              | .118 (3)         | .256 (6.5) |             |                                                    |           | .748 (19)  | 1.339 (34)    |               |
| CG-PG9-1-BK                                                                                              | .079 (2)         | .236 (6)   |             |                                                    |           | 1.063 (27) | 1.673 (42.5)  |               |
| CG-PG9-2-BK                                                                                              | .157 (4)         | .315 (8)   | PG9         | .606 (15.4)                                        | .315 (8)  | 1.299 (33) | 1.870 (47.5)  | 50            |
| CG-PG11-1-BK                                                                                             | .118 (3)         | .276 (7)   |             |                                                    |           | 1.654 (42) | 2.087 (53)    |               |
| CG-PG11-2-BK                                                                                             | .197 (5)         | .394 (10)  |             |                                                    |           | 1.772 (45) | 1.870 (47.5)  |               |
| CG-PG13.5-1-BK                                                                                           | .236 (6)         | .472 (12)  | PG13.5      | .815 (20.7)                                        | .354 (9)  | 1.299 (33) | 1.870 (47.5)  | 25            |
| CG-PG16-1-BK                                                                                             | .394 (10)        | .551 (14)  |             |                                                    |           | 1.654 (42) | 2.382 (60.5)  |               |
| CG-PG21-1-BK                                                                                             | .236 (9)         | .630 (16)  |             |                                                    |           | 1.772 (45) | 1.870 (47.5)  |               |
| CG-PG21-2-BK                                                                                             | .512 (13)        | .709 (18)  | PG21        | 1.126 (28.6)                                       | .433 (11) | 1.299 (33) | 1.870 (47.5)  | 10            |
| CG-PG29-1-BK*                                                                                            | .472 (12)        | .787 (20)  |             |                                                    |           | 1.654 (42) | 2.087 (53)    |               |
| CG-PG36-1-BK*                                                                                            | .787 (20)        | 1.024 (26) |             |                                                    |           | 1.772 (45) | 1.870 (47.5)  |               |
| CG-PG36-2-BK*                                                                                            | .866 (22)        | 1.260 (32) | PG36        | 1.870 (47.5)                                       | .512 (13) | 2.087 (53) | 2.402 (61)    |               |
| *O-Ring included only with threads PG29 and PG36                                                         |                  |            |             |                                                    |           |            |               |               |
| Parts available in Grey (RAL 7035) by Special Order. To order, remove -BK at the end of the part number. |                  |            |             |                                                    |           |            |               |               |

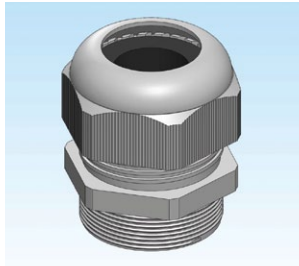
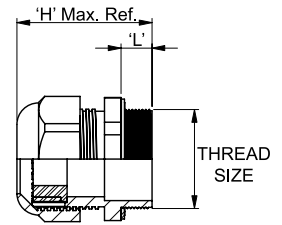
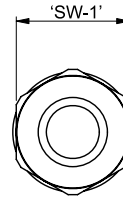
# GROMMETS, BUSHINGS & CABLE GLANDS

## CG-M

### Cable Gland – Metric Thread

**NEW**

**CAUS**  
• UL #E336396



#### Features

- See CGLN series below for mating locknuts
- Protection Class: IP68 - 5 Bar
- Operating temperature: -4°F - 212°F (-20°C -100°C)
- Remove the inner sealing gland for larger cable diameters



Mat'l: Gland Body and Nut: UL94 V2 Nylon 6, RMS-36; Outer Sealing Gland: CR/NBR, RMS-37; Inner Sealing Gland: TPE, RMS-40\*, Sealing Washer: NBR, RMS-41^

Color: Black (RAL 9005)

| Part No.     | Cable Ø Range |            | Thread Size | Suggested Clearance Hole for Non-Threaded Mounting | "L"       | "SW-1"     | "H" Max. Ref. | Standard Pack |
|--------------|---------------|------------|-------------|----------------------------------------------------|-----------|------------|---------------|---------------|
|              | Min. Ø        | Max. Ø     |             |                                                    |           |            |               |               |
| CG-M12-1-BK* | .079 (2)      | .197 (5)   | M12         | .480 (12.2)                                        | .315 (8)  | .591 (15)  | 1.220 (31)    | 100           |
| CG-M16-1-BK  | .118 (3)      | .394 (10)  | M16         | .638 (16.2)                                        |           | .787 (20)  | 1.398 (35.5)  |               |
| CG-M20-1-BK  | .197 (5)      | .512 (13)  | M20         | .795 (20.2)                                        |           | .945 (24)  | 1.417 (36)    |               |
| CG-M25-1-BK  | .315 (8)      | .669 (17)  | M25         | .992 (25.2)                                        | .394 (10) | 1.142 (29) | 1.623 (43)    | 50            |
| CG-M32-1-BK^ | .472 (12)     | .827 (21)  | M32         | 1.268 (32.2)                                       |           | 1.417 (36) | 1.968 (50)    | 25            |
| CG-M40-1-BK^ | .630 (16)     | 1.102 (28) | M40         | 1.583 (40.2)                                       |           | 1.811 (46) | 2.008 (51)    | 10            |

\*No Inner Sealing Gland included with CG-M12-1

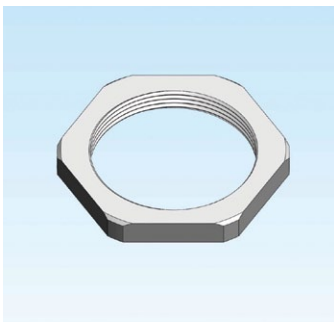
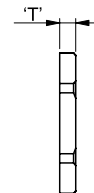
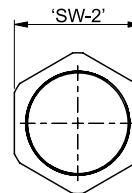
^Sealing Washer included only with threads M32 and M40.

Parts available in Grey (RAL 7035) by Special Order. To order, remove -BK at the end of the part number.

## CGLN

### Cable Gland – Locking Nuts

**NEW**



#### Features

- Operating temperature: -4°F - 212°F (-20°C -100°C)

Material: GF Nylon 6, RMS-44

Color: Black (RAL 9005)

| Part No.        | Thread Size | "SW-2"     | "T"      | Standard Pack |
|-----------------|-------------|------------|----------|---------------|
| CGLN-NPT-3/8-BK | NPT-3/8     | .866 (22)  | .197 (5) | 100           |
| CGLN-NPT-1/2-BK | NPT-1/2     | 1.063 (27) | .236 (6) |               |
| CGLN-NPT-3/4-BK | NPT-3/4     | 1.417 (36) | .276 (7) |               |
| CGLN-NPT-1-BK   | NPT-1       | 1.654 (42) |          |               |
| CGLN-PG7-BK     | PG7         | .748 (19)  |          |               |
| CGLN-PG9-BK     | PG9         | .866 (22)  | .197 (5) |               |
| CGLN-PG11-BK    | PG11        | .945 (24)  |          | 50            |
| CGLN-PG13.5-BK  | PG13.5      | 1.063 (27) | .236 (6) |               |
| CGLN-PG16-BK    | PG16        | 1.181 (30) |          |               |
| CGLN-PG21-BK    | PG21        | 1.417 (36) | .276 (7) |               |
| CGLN-PG29-BK    | PG29        | 1.811 (46) |          |               |
| CGLN-PG36-BK    | PG36        | 2.362 (60) | .315 (8) |               |
| CGLN-M12-BK     | M12         | .339 (17)  | .197 (5) | 100           |
| CGLN-M16-BK     | M16         | .866 (22)  |          |               |
| CGLN-M20-BK     | M20         | 1.063 (27) | .236 (6) |               |
| CGLN-M25-BK     | M25         | 1.260 (32) |          |               |
| CGLN-M32-BK     | M32         | 1.614 (41) | .276 (7) |               |
| CGLN-M40-BK     | M40         | 1.969 (50) |          | 50            |

Parts available in Grey (RAL 7035) by Special Order. To order, remove -BK at the end of the part number.

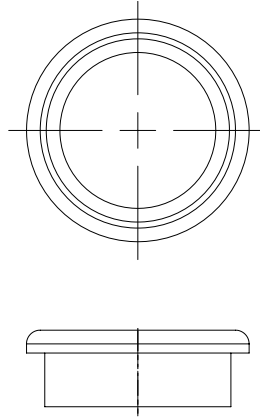
# GROMMETS, BUSHINGS & CABLE GLANDS

**GFA**  
Flip Grommet

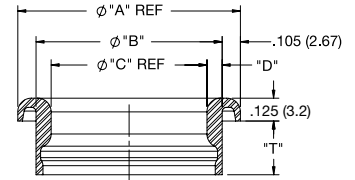


## Features

- Installed by inserting the "un-flipped" grommet into the hole. Forming dies on each side of the hole are pressed together until the grommet "flips" over itself, creating a flange on both sides of the hole



**NEW**



| Material: UL94 V2 Nylon 6/6, RMS-01 |              |              |                                  |                               |             |             |              |             |             |
|-------------------------------------|--------------|--------------|----------------------------------|-------------------------------|-------------|-------------|--------------|-------------|-------------|
| Color: Natural                      |              |              |                                  |                               |             |             |              |             |             |
| Standard Pack: 100 per bag          |              |              |                                  |                               |             |             |              |             |             |
| Part No.                            | NAS Part No  | Hole Ø       | Max. Recommended Panel Thickness | NAS1368 Panel Thickness Range | "T"         | "A" Ref.    | "B"          | "C" Ref.    | "D"         |
| GFA-N4A                             | NAS1368-N4A  | .375 (9.5)   | .030 (.76)                       | .025 - .080 (.64 - 2.03)      | .235 (5.97) | .567 (14.4) | .367 (9.3)   | .251 (6.4)  | .058 (1.47) |
| GFA-N4B                             | NAS1368-N4B  |              | .100 (2.54)                      | .081 - .140 (2.06 - 3.56)     | .295 (7.49) |             |              |             |             |
| GFA-N6A                             | NAS1368-N6A  |              | .030 (.76)                       | .025 - .080 (.64 - 2.03)      | .235 (5.97) |             |              |             |             |
| GFA-N6B                             | NAS1368-N6B  | .500 (12.7)  | .090 (2.29)                      | .081 - .140 (2.06 - 3.56)     | .295 (7.49) | .692 (17.6) | .492 (12.5)  | .376 (9.55) |             |
| GFA-N6C                             | NAS1368-N6C  |              | .160 (4.06)                      | .141 - .200 (3.58 - 5.08)     | .360 (9.1)  |             |              |             |             |
| GFA-N8A                             | NAS1368-N8A  |              | .030 (.76)                       | .025 - .080 (.64 - 2.03)      | .235 (5.97) |             |              |             |             |
| GFA-N8B                             | NAS1368-N8B  | .625 (15.9)  | .090 (2.29)                      | .081 - .140 (2.06 - 3.56)     | .295 (7.49) | .815 (20.7) | .615 (15.6)  | .499 (12.7) |             |
| GFA-N10A                            | NAS1368-N10A |              | .030 (.76)                       | .025 - .080 (.64 - 2.03)      | .235 (5.97) |             |              |             |             |
| GFA-N10B                            | NAS1368-N10B |              | .080 (2.03)                      | .081 - .140 (2.06 - 3.56)     | .295 (7.49) |             |              |             |             |
| GFA-N10D                            | NAS1368-N10D | .781 (19.8)  | .210 (5.33)                      | .201 - .250 (5.1 - 6.35)      | .420 (10.7) | .971 (24.7) | .771 (19.6)  | .605 (15.4) | .083 (2.11) |
| GFA-N12A                            | NAS1368-N12A |              | .020 (.51)                       | .025 - .080 (.64 - 2.03)      | .235 (5.97) |             |              |             |             |
| GFA-N12B                            | NAS1368-N12B |              | .070 (1.78)                      | .081 - .140 (2.06 - 3.56)     | .295 (7.49) |             |              |             |             |
| GFA-N14A                            | NAS1368-N14A | 1.031 (26.2) | .020 (.51)                       | .025 - .080 (.64 - 2.03)      | .235 (5.97) | 1.221 (31)  | 1.021 (25.9) | .855 (21.7) |             |
| GFA-N14B                            | NAS1368-N14B |              | .070 (1.78)                      | .081 - .140 (2.06 - 3.56)     | .295 (7.49) |             |              |             |             |

## Notes



## Notes

[illegible]

## Raw Material Information

### UL® File Number & UL® Yellow Cards

Underwriter's Laboratories Inc. (UL®), plastics classification number is used to describe the performance of the material. Tests conducted by UL® may include the determination of material flammability (burning characteristics), ignition characteristics from various thermal and electrical sources, electrical tracking and other electrical characteristics, physical and mechanical characteristics, and analytical tests. In addition, the effect of long-term exposure to elevated temperature (air-oven aging), water, ultraviolet light, cold, etc. on property-retention may be evaluated.

**For more information and to download the UL® Yellow Card for a Richco product, please visit [www.ul.com](http://www.ul.com) and click on "Certifications".**

### UL® Flame Rating

UL94 classifications V0, V1, V2, and HB describe the flame retardancy levels for a given resin. V0 rated resins typically have the highest flame resistance followed by V1, V2, and HB.

**For more information on UL® Flame Ratings and the Vertical Burn Test, please visit [www.ul.com](http://www.ul.com).**

### Material Operating Temperatures

The Material Temperature Ranges shown in the RMS Table are based on datasheets from the respective resin manufacturers and/or UL® RTI values. The values shown are for reference only to assist in material selection for your application. As each resin manufacturer uses different methods to evaluate the performance of their resins, the temperature ranges shown cannot necessarily be used to compare materials directly.

## Adhesive Tape Usage Guidelines

### Loads & Product Usage Guidelines

Long-term maximum product application loads generally should not exceed 0.25 psi. The surface area of contact is very critical for bond strength, so the amount of tape used should be maximized based on the application. In general, the tensile strength of the adhesive is higher than the peel or shear strength, so the product should be designed to be loaded in tension whenever possible.

### Nylon & Adhesive Shelf Life

If products are kept under the Ideal Storage Conditions above, shelf life is 1 year from date of shipment.

## Temperature Considerations

Ideal application temperature for most Richco adhesives is 70° - 100°F (21° - 38°C). Lower application temperatures should be avoided as the adhesive will be too firm and may not 'wet out' sufficiently. Operating temperatures of Richco adhesives are shown in the RMS table.

### Application Guide

**Surface Condition:** The bonding surfaces must be clean, uniform, dry and free of condensation. Do not use on fabric, coarse concrete, loose paint, or rough, loose surfaces.

**Surface Preparation:** For maximum performance, clean the mounting surfaces with a cleaning solvent such as a 50/50 mixture of isopropyl alcohol and water. Be sure to follow the solvent manufacturer's directions for use. Some surfaces may require a sealant or primer to achieve the desired bonding. Test the product on your actual application.

**Application pressure:** Remove the release liner being very careful not to touch the adhesive surface and then quickly and firmly rub the product into place. Firm pressure is needed to ensure full contact and to allow the adhesive to fully wet-out on the mating surfaces.

**Dwell Time:** The bond strength is affected by the substrate surface, application temperature and dwell time. At room temperature approximately half of the bond strength will be obtained within the first half hour with the majority of the strength achieved within 24 hours. Therefore, whenever possible wait 24 hours before applying load.

**Acrylic vs. rubber based adhesives:** In general, rubber based adhesives offer higher initial tack whereas acrylic based adhesives maintain higher mechanical strength over time. One should evaluate the performance of the product on the actual end use application. Contact your local Richco representative for additional physical property and chemical resistance data.

### Common Material Abbreviations

|                                                |                                                                 |
|------------------------------------------------|-----------------------------------------------------------------|
| <b>ABS</b> = Acrylonitrile-butadiene-styrene   | <b>PPE/PS</b> = Polyphenylene ether/polystyrene alloy           |
| <b>Acetal/POM</b> = Polyacetal                 | <b>PPE/SB</b> = Polyphenylene ether/styrene-butadiene alloy     |
| <b>CPVC</b> = Chlorinated polyvinyl chloride   | <b>PPS</b> = Polyphenylene sulfide                              |
| <b>EPDM</b> = Ethylene-propylene-diene-monomer | <b>PS</b> = Polystyrene                                         |
| <b>HDPE</b> = High density polyethylene        | <b>PSU</b> = Polysulfone                                        |
| <b>HIPS</b> = High impact polystyrene          | <b>PU</b> = Polyurethane                                        |
| <b>LCP</b> = Liquid Crystal Polymer            | <b>PVC</b> = Polyvinyl chloride                                 |
| <b>LDPE</b> = Low density polyethylene         | <b>PVDF</b> = Polyvinylidene fluoride                           |
| <b>Nitrile Rubber</b> = Acrylonitrile rubber   | <b>SEBS</b> = Styrene-ethylene butylene-styrene block copolymer |
| <b>Nylon</b> = Polyamide (PA)                  | <b>SIR</b> = Silicone molding compound                          |
| <b>PBT</b> = Polybutylene terephthalate        | <b>TPE</b> = Thermoplastic elastomer                            |
| <b>PC</b> = Polycarbonate                      | <b>TPR</b> = Thermoplastic rubber                               |
| <b>PE</b> = Polyethylene                       |                                                                 |
| <b>PEI</b> = Polyether imide                   |                                                                 |
| <b>PP</b> = Polypropylene                      |                                                                 |

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| RMS No. | Material Description                                  | UL File No. | UL Flame Rating | RoHS Compliance | Material Temperature Range |   |     |      |   |      |
|---------|-------------------------------------------------------|-------------|-----------------|-----------------|----------------------------|---|-----|------|---|------|
|         |                                                       |             |                 |                 | °C                         |   |     | °F   |   |      |
| 01      | Nylon 6/6                                             | E70062      | V-2             | Y               | -40                        | - | 85  | -40  | - | 185  |
| 02      | ABS                                                   | E38989      | HB              | Y               | -40                        | - | 95  | -40  | - | 203  |
| 03      | PC                                                    | E45587      | HB              | Y               | -40                        | - | 115 | -40  | - | 239  |
| 04      | PVC - Rigid                                           | E41877      | V-0             | Y               | 0                          | - | 50  | 32   | - | 122  |
| 05      | PPE+PS                                                | E121562     | V-0             | Y               | -40                        | - | 110 | -40  | - | 230  |
| 06      | LDPE                                                  | NO U.L.     | Not rated       | Y               | -40                        | - | 65  | -40  | - | 149  |
| 07      | HDPE, F.R.                                            | E41877      | V-0             | N               | 0                          | - | 50  | 32   | - | 122  |
| 08      | PP                                                    | E169973     | HB              | Y               | 0                          | - | 65  | 32   | - | 149  |
| 09      | ABS                                                   | E44741      | HB              | Y               | 0                          | - | 60  | 32   | - | 140  |
| 10      | PP                                                    | E169973     | HB              | Y               | 0                          | - | 65  | 32   | - | 149  |
| 11      | CPVC                                                  | E106426     | V-0             | Y               | 0                          | - | 50  | 32   | - | 122  |
| 12      | CAP                                                   | E31879      | HB              | Y               | -20                        | - | 50  | -4   | - | 122  |
| 13      | HDPE                                                  | NO U.L.     | Not rated       | Y               | -20                        | - | 65  | -4   | - | 149  |
| 14      | Acetal - US                                           | E38860      | HB              | Y               | -50                        | - | 100 | -58  | - | 212  |
| 14A     | Acetal - UK                                           | E42337      | HB              | Y               | -50                        | - | 100 | -58  | - | 212  |
| 15      | Acrylic adhesive / PU foam tape / PE liner            | MH16770     | Not rated       | Y               | 0                          | - | 85  | 32   | - | 185  |
| 16A     | HIPS, UV Resistant - UK                               | E141073     | HB              | Y               | -20                        | - | 50  | -4   | - | 122  |
| 16B     | HIPS - US                                             | E57787      | HB              | Y               | -20                        | - | 50  | -4   | - | 122  |
| 17      | Nylon 6/6                                             | E41938      | V-2             | Y               | -40                        | - | 85  | -40  | - | 185  |
| 18      | Nylon 6/6, Heat Stabilized, 33% Glass Filled - US     | E41938      | HB              | Y               | -30                        | - | 140 | -22  | - | 284  |
| 18A     | Nylon 6/6, F.R., 25% Glass Filled - UK                | E41938      | V-0             | Y               | -30                        | - | 130 | -22  | - | 266  |
| 19      | Nylon 6/6, F.R.                                       | E70062      | V-0             | Y               | -40                        | - | 110 | -40  | - | 230  |
| 20      | PVC - Rigid                                           | E53006      | V-0             | Y               | 0                          | - | 50  | 32   | - | 122  |
| 21      | Nylon 66/6                                            | E41938      | HB              | Y               | -40                        | - | 65  | -40  | - | 149  |
| 22      | CAP                                                   | NO U.L.     | Not rated       | Y               | -20                        | - | 50  | -4   | - | 122  |
| 23      | PC, F.R.                                              | E121562     | V-0             | Y               | -40                        | - | 130 | -40  | - | 266  |
| 24      | Rubber adhesive / PE foam tape / Silicone Paper Liner | NO U.L.     | Not rated       | Y               | 0                          | - | 70  | 32   | - | 158  |
| 25      | PVC - Flexible                                        | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 26      | PVC - Flexible                                        | E54709      | V-0             | Y               | 0                          | - | 90  | 32   | - | 194  |
| 27      | Nylon 6/6, F.R., 25% Glass Filled                     | E170540     | V-0             | Y               | -30                        | - | 65  | -22  | - | 149  |
| 28      | Polyester Felt Fiber                                  | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 29      | 304 Stainless Steel                                   | NO U.L.     | Not rated       | Y               | -200                       | - | 870 | -328 | - | 1598 |
| 30      | CAP                                                   | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 31      | Aluminum                                              | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 32      | PVC - Rigid                                           | E41877      | V-0             | Y               | 0                          | - | 50  | 32   | - | 122  |
| 33      | Silicone Rubber and Fiberglass, F.R.                  | E59150      | V-0             | Y               | -60                        | - | 150 | -76  | - | 302  |
| 34      | Rubber adhesive / PE foam tape                        | NO U.L.     | Not rated       | Y               | -40                        | - | 71  | -40  | - | 160  |
| 35      | Nylon 6/6, 14% Glass Filled                           | E41938      | HB              | Y               | -20                        | - | 65  | -4   | - | 149  |
| 36      | Polyamide 6                                           | E80168      | V-2             | Y               | -40                        | - | 65  | -40  | - | 149  |
| 37      | Polychloroprene, Nitrile Rubber                       | NO U.L.     | Not rated       | Y               | -34                        | - | 95  | -29  | - | 203  |
| 38      | Nylon 6, 30% Glass Filled                             | NO U.L.     | Not rated       | Y               | -20                        | - | 140 | -4   | - | 284  |
| 39      | Acetal                                                | E41938      | HB              | Y               | -40                        | - | 95  | -40  | - | 203  |
| 40      | TPE                                                   | NO U.L.     | Not rated       | Y               | -50                        | - | 50  | -58  | - | 122  |
| 41      | Nitrile Rubber                                        | NO U.L.     | Not rated       | Y               | -40                        | - | 80  | -40  | - | 176  |
| 42      | TPE                                                   | E80017      | HB              | Y               | -60                        | - | 95  | -76  | - | 203  |
| 43      | Nylon 6/6, F.R.                                       | E53898      | V-0             | Y               | -40                        | - | 120 | -40  | - | 248  |
| 44      | Polyamide 6, 30% Glass Filled                         | E86034      | V-2             | Y               | -30                        | - | 120 | -22  | - | 248  |
| 45      | Nylon 6/6, Heat Stabilized                            | E41938      | HB              | Y               | -40                        | - | 85  | -40  | - | 185  |
| 46      | Nylon 6/6, UV Stabilized                              | E70062      | V-2             | Y               | -40                        | - | 85  | -40  | - | 185  |
| 47      | Nylon 6/6, Heat Stabilized                            | E41938      | V-2             | Y               | -40                        | - | 125 | -40  | - | 257  |
| 48      | Nylon 6/6                                             | E41871      | V-2             | Y               | -40                        | - | 90  | -40  | - | 194  |
| 49      | Nylon 6/6, F.R., 25% Glass Filled                     | E41871      | V-0             | Y               | -40                        | - | 130 | -40  | - | 266  |
| 50      | PPS, 40% Glass Filled                                 | E54700      | V-0             | Y               | -40                        | - | 220 | -40  | - | 428  |
| 51      | PSU                                                   | E41871      | V-2             | Y               | 0                          | - | 155 | 32   | - | 311  |
| 52      | Nylon 6                                               | E41871      | V-2             | Y               | -40                        | - | 115 | -40  | - | 239  |
| 53      | PBT                                                   | E121562     | V-0             | Y               | -30                        | - | 140 | -22  | - | 284  |
| 54      | PP                                                    | E169973     | HB              | Y               | 0                          | - | 65  | 32   | - | 149  |
| 55      | PVC - Flexible                                        | E137220     | V-0             | Y               | -35                        | - | 50  | -31  | - | 122  |
| 56      | Nylon 4/6, Heat Stabilized                            | E172082     | V-2             | Y               | -40                        | - | 130 | -40  | - | 266  |
| 58      | Nylon 6                                               | NO U.L.     | Not rated       | Y               | -20                        | - | 65  | -4   | - | 149  |

An asterisk (\*) indicates data was not available at time of publication. Please see our website or contact your local Richco Representative for the necessary documentation.

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**NYLON STORAGE GUIDELINES/SHELF LIFE:** All Richco nylon parts are packaged in sealed plastic bags and contain an appropriate level of moisture. When stored in the original unopened bags at 73°F (23°C) and 50% RH, parts shelf life is one year from date of shipment.

# RMS SPECIFICATIONS

| RMS No. | Material Description                               | UL File No. | UL Flame Rating | RoHS Compliance | Material Temperature Range |   |     |     |   |     |
|---------|----------------------------------------------------|-------------|-----------------|-----------------|----------------------------|---|-----|-----|---|-----|
|         |                                                    |             |                 |                 | °C                         |   |     | °F  |   |     |
| 59      | ABS                                                | E38989      | HB              | Y               | 0                          | - | 60  | 32  | - | 140 |
| 60      | Nylon 6                                            | E36632      | V-2             | Y               | -40                        | - | 65  | -40 | - | 149 |
| 61      | Acetal                                             | E41938      | HB              | Y               | -50                        | - | 95  | -58 | - | 203 |
| 62      | Nylon 6                                            | E41871      | V-2             | Y               | -40                        | - | 115 | -40 | - | 239 |
| 63      | Acetal                                             | E41938      | HB              | Y               | -50                        | - | 95  | -58 | - | 203 |
| 64      | PU                                                 | E177325     | HB              | Y               | 0                          | - | 50  | 32  | - | 122 |
| 65      | Acrylic adhesive / PE coated paper liner           | NO U.L.     | Not rated       | Y               | -18                        | - | 121 | 0   | - | 250 |
| 66      | Nylon 6/6, F.R.                                    | E78964      | V-0             | Y               | -40                        | - | 65  | -40 | - | 149 |
| 67      | TPE                                                | E80017      | HB              | Y               | -60                        | - | 95  | -76 | - | 203 |
| 68      | Rubber adhesive / PE coated paper liner            | NO U.L.     | Not rated       | Y               | -18                        | - | 82  | 0   | - | 180 |
| 70      | PVC, F.R.                                          | E86418      | V-0             | Y               | 0                          | - | 50  | 32  | - | 122 |
| 71      | Nylon 6                                            | E36632      | V-2             | Y               | -40                        | - | 85  | -40 | - | 185 |
| 72      | PC                                                 | E123529     | V-2             | Y               | -40                        | - | 80  | -40 | - | 176 |
| 73      | Nylon 6/6                                          | E41938      | HB              | Y               | -40                        | - | 85  | -40 | - | 185 |
| 74      | Nylon 6/6                                          | E41938      | V-2             | Y               | -40                        | - | 85  | -40 | - | 185 |
| 75      | Nylon 6/6, F.R.                                    | E116324     | V-0             | Y               | -40                        | - | 85  | -40 | - | 185 |
| 76      | TPE                                                | E80017      | HB              | Y               | -50                        | - | 95  | -58 | - | 203 |
| 77      | Aluminum                                           | NO U.L.     | Not rated       | Y               | -                          | - | -   | -   | - | -   |
| 78      | Nylon 6                                            | E53898      | HB              | Y               | -40                        | - | 105 | -40 | - | 221 |
| 79      | PC                                                 | E50075      | V-2             | Y               | -40                        | - | 105 | -40 | - | 221 |
| 80      | TPE                                                | E80017      | HB              | Y               | -40                        | - | 50  | -40 | - | 122 |
| 81      | Nylon 6/6                                          | E41797      | V-2             | Y               | -40                        | - | 85  | -40 | - | 185 |
| 82      | Aluminum                                           | NO U.L.     | Not rated       | Y               | -                          | - | -   | -   | - | -   |
| 83      | PVC                                                | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32  | - | 122 |
| 84      | Nylon 6/6                                          | E36632      | V-2             | Y               | -40                        | - | 85  | -40 | - | 185 |
| 85      | Nylon 6                                            | NO U.L.     | Not rated       | Y               | -40                        | - | 100 | -40 | - | 212 |
| 86      | PP                                                 | NO U.L.     | Not rated       | Y               | 0                          | - | 65  | 32  | - | 149 |
| 87      | Nylon 6, F.R.                                      | E41797      | V-0             | Y               | -40                        | - | 130 | -40 | - | 266 |
| 88      | Nylon 6                                            | E245249     | HB              | Y               | -40                        | - | 65  | -40 | - | 149 |
| 90      | Nylon 6, 30% Glass Filled                          | E76261      | HB              | *               | -30                        | - | 85  | -22 | - | 185 |
| 91      | Nylon 6/6, F.R.                                    | E190675     | V-0             | Y               | -40                        | - | 120 | -40 | - | 248 |
| 92      | Acrylic adhesive / Acrylic foam tape / Paper liner | MH17478     | Not rated       | Y               | -40                        | - | 93  | -40 | - | 199 |
| 93      | Acrylic adhesive / PE foam tape / PE paper liner   | NO U.L.     | Not rated       | Y               | -40                        | - | 70  | -40 | - | 158 |
| 94      | PP                                                 | NO U.L.     | Not rated       | Y               | 0                          | - | 65  | 32  | - | 149 |
| 95      | Nylon 6, F.R., Heat Stabilized                     | E147510     | V-0             | Y               | -40                        | - | 65  | -40 | - | 149 |
| 96      | Hot Melt Adhesive                                  | R6022       | Not rated       | Y               | -                          | - | -   | -   | - | -   |
| 97      | Rubber adhesive / PE foam                          | NO U.L.     | Not rated       | Y               | -40                        | - | 60  | -40 | - | 140 |
| 98      | TPE                                                | NO U.L.     | Not rated       | Y               | -40                        | - | 120 | -40 | - | 248 |
| 99      | Acrylic adhesive / PU foam tape / PE liner         | NO U.L.     | Not rated       | Y               | -40                        | - | 100 | -40 | - | 212 |
| 100     | TPE                                                | NO U.L.     | Not rated       | Y               | -40                        | - | 70  | -40 | - | 158 |
| 101     | Silicone Rubber                                    | NO U.L.     | Not rated       | Y               | -70                        | - | 200 | -94 | - | 392 |
| 102     | Rubber adhesive / PE foam tape / PE film liner     | MH15436     | Not rated       | Y               | -18                        | - | 66  | 0   | - | 150 |
| 103     | Nylon 6/66, F.R.                                   | E41871      | V-0             | Y               | -40                        | - | 120 | -40 | - | 248 |
| 104     | Nylon 6/6, F.R., Heat Stabilized, 25% Glass Filled | E41938      | V-0             | Y               | -40                        | - | 130 | -40 | - | 266 |
| 105     | PPE+PS Blend, F.R.                                 | E148878     | V-0             | Y               | -30                        | - | 100 | -22 | - | 212 |
| 106     | Polyamide 66                                       | NO U.L.     | Not rated       | Y               | -40                        | - | 120 | -40 | - | 248 |
| 107     | PC                                                 | E146413     | V-0             | Y               | -40                        | - | 80  | -40 | - | 176 |
| 108     | PU                                                 | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32  | - | 122 |
| 109     | Nylon 4/6, Heat Stabilized                         | E47960      | V-2             | Y               | -40                        | - | 130 | -40 | - | 266 |
| 110     | PBT, F.R., 30% Glass Filled                        | E130155     | V-0             | Y               | -30                        | - | 140 | -22 | - | 284 |
| 111     | PBT, F.R.                                          | E45575      | V-0             | Y               | -30                        | - | 130 | -22 | - | 266 |
| 112     | Nylon 6/6, F.R., 25% Glass Filled                  | E36632      | V-0             | Y               | -40                        | - | 130 | -40 | - | 266 |
| 113     | Acrylic adhesive / PE foam tape / PE liner         | NO U.L.     | Not rated       | Y               | -18                        | - | 107 | 0   | - | 225 |
| 114     | ABS                                                | E56070      | HB              | Y               | 0                          | - | 85  | 32  | - | 185 |
| 115     | Nylon 6/6                                          | E41938      | V-2             | Y               | -30                        | - | 85  | -22 | - | 185 |
| 116     | Nylon 6/6                                          | NO U.L.     | Not rated       | Y               | -20                        | - | 85  | -4  | - | 185 |
| 117     | Polystyrene, F.R.                                  | E140692     | V-0             | Y               | -20                        | - | 50  | -4  | - | 122 |
| 118     | PVC - Flexible                                     | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32  | - | 122 |
| 119     | Rubber adhesive / PE foam tape / PE liner          | NO U.L.     | Not rated       | Y               | 18                         | - | 65  | 64  | - | 149 |
| 120     | Nylon 6                                            | E53664      | V-2             | Y               | -40                        | - | 85  | -40 | - | 185 |

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**NYLON STORAGE GUIDELINES/SHELF LIFE:** All Richco nylon parts are packaged in sealed plastic bags and contain an appropriate level of moisture. When stored in the original unopened bags at 73°F (23°C) and 50% RH, parts shelf life is one year from date of shipment.

| RMS No. | Material Description                                     | UL File No. | UL Flame Rating | RoHS Compliance | Material Temperature Range |   |      |      |   |      |
|---------|----------------------------------------------------------|-------------|-----------------|-----------------|----------------------------|---|------|------|---|------|
|         |                                                          |             |                 |                 | °C                         |   |      | °F   |   |      |
| 121     | Acetal                                                   | E41938      | HB              | Y               | -50                        | - | 95   | -58  | - | 203  |
| 122     | Nylon 6                                                  | E47924      | V-2             | Y               | -40                        | - | 65   | -40  | - | 149  |
| 126     | PP                                                       | NO U.L.     | Not rated       | Y               | 0                          | - | 65   | 32   | - | 149  |
| 127     | Acetal                                                   | NO U.L.     | Not rated       | Y               | -50                        | - | 90   | -58  | - | 194  |
| 128     | Rubber adhesive/PE foam tape/Silicone coated paper liner | NO U.L.     | Not rated       | Y               | 18                         | - | 65   | 64   | - | 149  |
| 129     | Rubber adhesive/PE foam tape/Silicone coated paper liner | NO U.L.     | Not rated       | Y               | 18                         | - | 65   | 64   | - | 149  |
| 130     | PPE+PS, F.R.                                             | E45587      | V-0             | Y               | -40                        | - | 110  | -40  | - | 230  |
| 131     | Acrylic adhesive / Rubber foam tape                      | NO U.L.     | Not rated       | Y               | -40                        | - | 85   | -40  | - | 185  |
| 132     | Adhesive Transfer Tape                                   | MH17478     | Not rated       | Y               | -34                        | - | 150  | -29  | - | 302  |
| 133     | Nylon 6/6                                                | E53898      | HB              | Y               | -40                        | - | 105  | -40  | - | 221  |
| 134     | LDPE                                                     | NO U.L.     | Not rated       | Y               | 0                          | - | 65   | 32   | - | 149  |
| 135     | Acrylic adhesive / Silicone foam                         | E57750      | V-0             | Y               | -40                        | - | 105  | -40  | - | 221  |
| 136     | Rubber adhesive / PE foam tape / PE liner                | NO U.L.     | Not rated       | Y               | -40                        | - | 60   | -40  | - | 140  |
| 137     | Rubber Adhesive                                          | NO U.L.     | Not rated       | Y               | -20                        | - | 65   | -4   | - | 149  |
| 138     | Nylon 66/6, F.R., Heat Stabilized                        | E44716      | V-0             | Y               | -50                        | - | 95   | -58  | - | 203  |
| 139     | Acrylic adhesive / Non-woven film / Paper liner          | NO U.L.     | Not rated       | Y               | -40                        | - | 60   | -40  | - | 140  |
| 140     | PBT, F.R.                                                | E245249     | V-0             | Y               | -30                        | - | 125  | -22  | - | 257  |
| 141     | PVDF                                                     | E54699      | V-0             | Y               | -30                        | - | 50   | -22  | - | 122  |
| 142     | LDPE/HDPE                                                | NO U.L.     | Not rated       | Y               | 0                          | - | 70   | 32   | - | 158  |
| 143     | Acrylic adhesive / PE foam tape / PP liner               | NO U.L.     | Not rated       | Y               | -40                        | - | 70   | -40  | - | 158  |
| 144     | PVC                                                      | NO U.L.     | Not rated       | Y               | 0                          | - | 50   | 32   | - | 122  |
| 145     | PPE+PS, F.R.                                             | E45329      | V-0             | Y               | -30                        | - | 65   | -22  | - | 149  |
| 146     | Nylon 6/10, F.R.                                         | E41797      | V-0             | Y               | -40                        | - | 65   | -40  | - | 149  |
| 147     | Polyamide 66                                             | E141008     | V-2             | Y               | -40                        | - | 85   | -40  | - | 185  |
| 148     | Nylon 6/6                                                | E70062      | HB              | Y               | -40                        | - | 65   | -40  | - | 149  |
| 149     | ASA/AES                                                  | E119088     | HB              | Y               | -40                        | - | 50   | -40  | - | 122  |
| 150     | PP                                                       | NO U.L.     | Not rated       | Y               | 0                          | - | 65   | 32   | - | 149  |
| 150A    | PP                                                       | E231371     | HB              | Y               | 0                          | - | 65   | 32   | - | 149  |
| 151     | PP, Conductive                                           | E45195      | HB              | Y               | 0                          | - | 65   | 32   | - | 149  |
| 152     | Aluminum                                                 | NO U.L.     | Not rated       | Y               | -200                       | - | 400  | -328 | - | 752  |
| 153     | EPDM Rubber                                              | NO U.L.     | Not rated       | Y               | -40                        | - | 110  | -40  | - | 230  |
| 154     | Nylon 6                                                  | E76261      | V-2             | Y               | -30                        | - | 85   | -22  | - | 185  |
| 155     | LDPE/HDPE Blend, UV Stabilized                           | NO U.L.     | Not rated       | Y               | 0                          | - | 65   | 32   | - | 149  |
| 156     | Nylon 6/6                                                | E53664      | V-0             | Y               | -40                        | - | 120  | -40  | - | 248  |
| 157     | Nylon 6, Heat Stabilized                                 | NO U.L.     | Not rated       | Y               | -40                        | - | 130  | -40  | - | 266  |
| 158     | TPE                                                      | E80017      | HB              | Y               | -50                        | - | 95   | -58  | - | 203  |
| 159     | Nylon 6                                                  | E47960      | V-2             | Y               | -30                        | - | 85   | -22  | - | 185  |
| 160     | Acetal                                                   | E45034      | HB              | Y               | -50                        | - | 100  | -58  | - | 212  |
| 161     | PC                                                       | E41179      | V-2             | Y               | -40                        | - | 125  | -40  | - | 257  |
| 162     | PEI                                                      | E247337     | V-0             | Y               | -40                        | - | 200  | -40  | - | 392  |
| 163     | HIPS                                                     | E108538     | HB              | Y               | -20                        | - | 50   | -4   | - | 122  |
| 164     | Nylon 6/6, Heat Stabilized                               | E70062      | V-2             | Y               | -40                        | - | 125  | -40  | - | 257  |
| 165     | Nylon 6/6, UV Stabilized                                 | E70062      | V-2             | Y               | -40                        | - | 85   | -40  | - | 185  |
| 166     | EPDM Rubber                                              | NO U.L.     | Not rated       | Y               | -40                        | - | 50   | -40  | - | 122  |
| 167     | TPE                                                      | E80017      | HB              | Y               | -40                        | - | 50   | -40  | - | 122  |
| 168     | TPE                                                      | E80017      | HB              | Y               | -40                        | - | 50   | -40  | - | 122  |
| 169     | Nylon 6/6, F.R.                                          | E53898      | V-0             | Y               | -40                        | - | 120  | -40  | - | 248  |
| 170     | Ceramic                                                  | NO U.L.     | Not rated       | Y               | -40                        | - | 1700 | -40  | - | 3092 |
| 171     | ABS                                                      | E56070      | HB              | Y               | 0                          | - | 60   | 32   | - | 140  |
| 172     | Nylon 6/6, Heat Stabilized                               | E41938      | HB              | Y               | -40                        | - | 110  | -40  | - | 230  |
| 173     | Nylon 6, 25% Glass Filled                                | E76261      | HB              | Y               | -40                        | - | 105  | -40  | - | 221  |
| 174     | Nylon 6/6                                                | E86615      | V-2             | Y               | 0                          | - | 65   | 32   | - | 149  |
| 175     | Mild Steel                                               | NO U.L.     | Not rated       | Y               | -                          | - | -    | -    | - | -    |
| 176     | PVC/TPE, F.R.                                            | NO U.L.     | Not rated       | Y               | -30                        | - | 100  | -22  | - | 212  |
| 177     | PP                                                       | E54080      | V-2             | Y               | 0                          | - | 65   | 32   | - | 149  |
| 178     | EPDM Rubber                                              | NO U.L.     | Not rated       | Y               | -40                        | - | 90   | -40  | - | 194  |
| 179     | Nylon 6/6                                                | E86615      | V-2             | Y               | -20                        | - | 65   | -4   | - | 149  |
| 180     | EPDM Rubber                                              | NO U.L.     | Not rated       | Y               | -20                        | - | 90   | -4   | - | 194  |
| 181     | PC, F.R.                                                 | E121254     | V-0             | Y               | -40                        | - | 80   | -40  | - | 176  |
| 182     | TPE                                                      | E80017      | HB              | Y               | -30                        | - | 95   | -22  | - | 203  |
| 183     | HDPE                                                     | NO U.L.     | Not rated       | Y               | 0                          | - | 65   | 32   | - | 149  |

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# RMS SPECIFICATIONS

| RMS No. | Material Description         | UL File No. | UL Flame Rating | RoHS Compliance | Material Temperature Range |   |     |      |   |     |
|---------|------------------------------|-------------|-----------------|-----------------|----------------------------|---|-----|------|---|-----|
|         |                              |             |                 |                 | °C                         |   |     | °F   |   |     |
| 184     | LCP                          | E83005      | V-0             | Y               | 0                          | - | 130 | 32   | - | 266 |
| 185     | TPE                          | NO U.L.     | Not rated       | Y               | -50                        | - | 130 | -58  | - | 266 |
| 186     | PVC                          | NO U.L.     | Not rated       | Y               | -10                        | - | 50  | 14   | - | 122 |
| 187     | PVC, UV Stabilized - Rigid   | NO U.L.     | Not rated       | Y               | -20                        | - | 70  | -4   | - | 158 |
| 188     | PVC - Rigid                  | NO U.L.     | Not rated       | Y               | -20                        | - | 60  | -4   | - | 140 |
| 189     | Nylon 66, 15% Glass Filled   | NO U.L.     | Not rated       | Y               | -20                        | - | 85  | -4   | - | 185 |
| 190     | Neoprene Rubber              | NO U.L.     | Not rated       | Y               | -40                        | - | 50  | -40  | - | 122 |
| 191     | PVC - Rigid                  | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 192     | Nylon 11 Coating             | NO U.L.     | Not rated       | Y               | -40                        | - | 140 | -40  | - | 284 |
| 193     | PVC - Rigid                  | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 194     | Aluminum                     | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 195     | PVC - Rigid                  | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 196     | PVC Coating                  | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 197     | 30301 Stainless Steel        | NO U.L.     | Not rated       | Y               | -129                       | - | 288 | -200 | - | 550 |
| 198     | Cold Rolled Steel            | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 199     | Aluminum                     | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 200     | TPE                          | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 201     | Nitrile Rubber               | NO U.L.     | Not rated       | Y               | -40                        | - | 80  | -40  | - | 176 |
| 202     | Acetal                       | E38860      | HB              | Y               | -50                        | - | 100 | -58  | - | 212 |
| 203     | Soft Steel                   | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 204     | PC                           | E121562     | HB              | Y               | -40                        | - | 130 | -40  | - | 266 |
| 205     | Nylon 6/6, 25% Glass Filled  | E116324     | V-0             | Y               | -40                        | - | 95  | -40  | - | 203 |
| 206     | Spring Steel                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 207     | Natural Rubber               | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 208     | PVC                          | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 209     | Silicone Oil                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 210     | Silicone Rubber              | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302 |
| 211     | Nylon 66, Heat Stabilized    | NO U.L.     | Not rated       | Y               | -40                        | - | 65  | -40  | - | 149 |
| 212     | Carbon Steel                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 213     | TPE                          | NO U.L.     | Not rated       | Y               | -50                        | - | 90  | -58  | - | 194 |
| 214     | TPE                          | NO U.L.     | Not rated       | Y               | -50                        | - | 90  | -58  | - | 194 |
| 215     | PC                           | E157291     | V-2             | Y               | -40                        | - | 120 | -40  | - | 248 |
| 216     | Black Oxide & Oil Coating    | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 217     | Nickel Tin Plating           | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 218     | PC                           | E121562     | HB              | Y               | -40                        | - | 100 | -40  | - | 212 |
| 219     | Zinc Plating                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 220     | Nylon 6/6                    | E41938      | V-2             | Y               | -40                        | - | 85  | -40  | - | 185 |
| 221     | Nylon 6/6, UV Stabilizer     | E41938      | V-2             | Y               | -40                        | - | 85  | -40  | - | 185 |
| 222     | Nylon 6/6, 30% Glass Filled  | E84658      | V-0             | Y               | -30                        | - | 140 | -22  | - | 284 |
| 223     | ABS, F.R.                    | E162823     | V-0             | Y               | 0                          | - | 60  | 32   | - | 140 |
| 224     | Stainless Steel - Passivated | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 225     | Polyolefin                   | NO U.L.     | Not rated       | Y               | 0                          | - | 65  | 32   | - | 149 |
| 226     | Modified PE Adhesive         | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 227     | Stainless Spring Steel       | NO U.L.     | Not rated       | Exempt          | -129                       | - | 288 | -200 | - | 550 |
| 228     | Stainless Steel              | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 229     | Nickel Chrome Plating        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 230     | Stainless Spring Steel       | NO U.L.     | Not rated       | Y               | -129                       | - | 288 | -200 | - | 550 |
| 231     | Brass                        | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 232     | Mild Steel                   | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 233     | 409 Stainless Steel          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 234     | Nickel Plating               | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 235     | Zinc Bichromate Plating      | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 236     | Zinc Plating                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 237     | Mild Steel                   | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 238     | Spring Steel                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 239     | Painted Marking              | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 240     | Rubber & Nylon - Fiber       | NO U.L.     | Not rated       | Y               | 0                          | - | 38  | 32   | - | 100 |
| 241     | Neoprene Rubber              | NO U.L.     | Not rated       | Y               | -40                        | - | 80  | -40  | - | 176 |
| 242     | Carbon Steel                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 243     | Soft Electrogalvanized Steel | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |

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| RMS No. | Material Description                | UL File No. | UL Flame Rating | RoHS Compliance | Material Temperature Range |   |     |      |   |     |
|---------|-------------------------------------|-------------|-----------------|-----------------|----------------------------|---|-----|------|---|-----|
|         |                                     |             |                 |                 | °C                         |   |     | °F   |   |     |
| 244     | Nylon 66                            | E41938      | V-2             | Y               | -40                        | - | 85  | -40  | - | 185 |
| 245     | Copper Flat Wire                    | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 246     | Tin Plating                         | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 247     | Aluminum                            | NO U.L.     | Not rated       | Y               | -200                       | - | 400 | -328 | - | 752 |
| 248     | Nylon 66, F.R.                      | E41938      | V-0             | Y               | -40                        | - | 85  | -40  | - | 185 |
| 249     | PE Hook                             | NO U.L.     | Not rated       | Y               | 0                          | - | 60  | 32   | - | 140 |
| 250     | Nylon Buckle                        | NO U.L.     | Not rated       | Y               | -40                        | - | 65  | -40  | - | 149 |
| 251     | Nylon Loop                          | NO U.L.     | Not rated       | Y               | -40                        | - | 65  | -40  | - | 149 |
| 252     | Ferrite Terminal                    | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 253     | Nylon 66, Glass Filled              | NO U.L.     | Not rated       | Y               | -40                        | - | 65  | -40  | - | 149 |
| 254     | Stainless Steel                     | NO U.L.     | Not rated       | Exempt          | -129                       | - | 288 | -200 | - | 550 |
| 255     | PP/Polyester Blend                  | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 256     | ABS/PC                              | E168806     | V-0             | Y               | 0                          | - | 60  | 32   | - | 140 |
| 257     | Phosphor Bronze                     | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 258     | Chrome Plating                      | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 259     | Spring Steel                        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 260     | Brass                               | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 261     | Electroplated Steel                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 262     | TPE                                 | E80017      | HB              | Y               | -50                        | - | 95  | -58  | - | 203 |
| 263     | TPE, F.R.                           | E80017      | V-0             | Y               | -40                        | - | 90  | -40  | - | 194 |
| 265     | PVC - Flexible                      | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 266     | Galvanized Steel                    | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 267     | Acetal                              | E120354     | HB              | Y               | -50                        | - | 100 | -58  | - | 212 |
| 268     | PP, 25% Glass Fiber                 | NO U.L.     | Not rated       | Y               | 0                          | - | 65  | 32   | - | 149 |
| 269     | PVC                                 | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 271     | PP                                  | NO U.L.     | Not rated       | Y               | 0                          | - | 65  | 32   | - | 149 |
| 272     | Chrome Plating                      | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 273     | PC                                  | E41179      | V-2             | Y               | -40                        | - | 125 | -40  | - | 257 |
| 274     | Yellow Chromate Zinc Plating        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 275     | Polyolefin Writing Surface          | NO U.L.     | Not rated       | Y               | 0                          | - | 60  | 32   | - | 140 |
| 276     | Brass                               | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 277     | ABS                                 | NO U.L.     | Not rated       | Y               | 0                          | - | 60  | 32   | - | 140 |
| 278     | Spring Steel                        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 279     | Neoprene Rubber                     | NO U.L.     | Not rated       | Y               | -40                        | - | 80  | -40  | - | 176 |
| 280     | 321 Stainless Steel                 | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 281     | Masterbatch                         | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 282     | Stainless Steel                     | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 283     | 304 Stainless Steel                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 284     | HDPE                                | NO U.L.     | Not rated       | Y               | 0                          | - | 60  | 32   | - | 140 |
| 285     | LDPE                                | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 286     | TPE                                 | NO U.L.     | Not rated       | Y               | -50                        | - | 90  | -58  | - | 194 |
| 287     | Nylon 6/6                           | NO U.L.     | Not rated       | Y               | -40                        | - | 65  | -40  | - | 149 |
| 289     | Brass                               | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 290     | PBT, 6% Glass Filled                | NO U.L.     | Not rated       | Y               | -30                        | - | 120 | -22  | - | 248 |
| 291     | PTFE                                | NO U.L.     | Not rated       | Y               | -70                        | - | 400 | -94  | - | 752 |
| 292     | Silicone                            | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302 |
| 293     | Pressure Sensitive Acrylic Adhesive | NO U.L.     | Not rated       | Y               | -29                        | - | 93  | -20  | - | 199 |
| 294     | Stainless Steel                     | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 295     | PP                                  | NO U.L.     | Not rated       | Y               | 0                          | - | 65  | 32   | - | 149 |
| 296     | Silicone Compound                   | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 297     | Kevlar                              | NO U.L.     | Not rated       | Y               | -100                       | - | 400 | -148 | - | 752 |
| 298     | PVC - Flexible                      | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122 |
| 299     | Nickel Plating                      | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 300     | Polyester Elastomer                 | NO U.L.     | Not rated       | Y               | -40                        | - | 140 | -40  | - | 284 |
| 301     | Epoxy Glue                          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 302     | Ferrite Core                        | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 303     | Ferrite Core                        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |
| 304     | Ferrite Core                        | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 305     | Stainless Steel                     | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -   |
| 306     | Tin Coated Copper Wire              | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -   |

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# RMS SPECIFICATIONS

| RMS No. | Material Description                                  | UL File No. | UL Flame Rating | RoHS Compliance | Material Temperature Range |   |     |      |   |      |
|---------|-------------------------------------------------------|-------------|-----------------|-----------------|----------------------------|---|-----|------|---|------|
|         |                                                       |             |                 |                 | °C                         |   |     | °F   |   |      |
| 307     | Tin Coated Copper Wire                                | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 308     | Tin Coated Copper Wire                                | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 309     | Steel Piano Wire                                      | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -    |
| 310     | Pressure Sensitive Acrylic Adhesive                   | NO U.L.     | Not rated       | Y               | -29                        | - | 93  | -20  | - | 199  |
| 311     | Polyethylene Hook                                     | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 312     | Nylon Loop                                            | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 313     | Pressure Sensitive Adhesive                           | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 314     | Acrylic adhesive / PE film / Silicone paper liner     | NO U.L.     | Not rated       | Y               | -80                        | - | 100 | -112 | - | 212  |
| 315     | Nylon 6/6                                             | E41938      | V-2             | Y               | -40                        | - | 85  | -40  | - | 185  |
| 316     | Silicone Rubber                                       | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 317     | PVC - Flexible                                        | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 318     | Epoxy Cover                                           | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 320     | 302 Stainless Steel                                   | NO U.L.     | Not rated       | Y               | -200                       | - | 870 | -328 | - | 1598 |
| 321     | Silicone Rubber                                       | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 322     | Silicone Rubber                                       | E111943     | HB              | Y               | -40                        | - | 150 | -40  | - | 302  |
| 323     | Plastic Washer                                        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 324     | Rubber adhesive / PE foam tape / Silicone Paper Liner | NO U.L.     | Not rated       | Y               | 0                          | - | 70  | 32   | - | 158  |
| 325     | Fiberglass                                            | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 326     | Spring Steel                                          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 327     | Spring Steel                                          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 328     | Stainless Steel                                       | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 329     | Ferrite - Ceramic                                     | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -    |
| 330     | Ferrite - Paper Packaging Carrier Tape                | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 331     | Wire - 2UEW                                           | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 332     | Ceramic Body                                          | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -    |
| 333     | Copper Wire                                           | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -    |
| 334     | Ferrite K-15                                          | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -    |
| 335     | EVOH                                                  | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 336     | Stainless Steel                                       | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 337     | Zinc Plating                                          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 338     | Steel                                                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 339     | Zinc Plating                                          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 340     | Steel                                                 | NO U.L.     | Not rated       | Exempt          | -                          | - | -   | -    | - | -    |
| 341     | Zinc Plating                                          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 342     | Polyester/PP Hook                                     | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 343     | Hook and Loop                                         | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 344     | Acrylic Adhesive                                      | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 345     | Ferrite - Polystyrene Carrier Tape                    | NO U.L.     | Not rated       | *               | -                          | - | -   | -    | - | -    |
| 346     | Color Code Stripe Printing Ink                        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 347     | Ferrite - Polyethylene Carrier Tape                   | NO U.L.     | Not rated       | *               | -                          | - | -   | -    | - | -    |
| 348     | Rubber IIR Bromobutyl                                 | NO U.L.     | Not rated       | Y               | -40                        | - | 140 | -40  | - | 284  |
| 349     | Brass                                                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 350     | Double Coated Polyurethane Foam Tape                  | NO U.L.     | Not rated       | Y               | -29                        | - | 104 | -20  | - | 219  |
| 351     | TPE                                                   | NO U.L.     | Not rated       | Y               | -40                        | - | 100 | -40  | - | 212  |
| 352     | Carbon Steel                                          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 353     | Stainless Steel                                       | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 354     | Zinc with Clear Dichromate Plating                    | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 355     | Chrome Plating                                        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 356     | Black Phosphate Coating                               | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 357     | Steel                                                 | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 358     | Zinc Plating                                          | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 359     | Acrylic adhesive / PE foam tape / PE paper liner      | NO U.L.     | Not rated       | Y               | -40                        | - | 95  | -40  | - | 203  |
| 360     | Butyl Rubber                                          | NO U.L.     | Not rated       | Y               | -40                        | - | 140 | -40  | - | 284  |
| 361     | Acrylic adhesive / Acrylic foam / PE film liner       | MH17478     | Not rated       | Y               | -35                        | - | 90  | -31  | - | 194  |
| 362     | PVC                                                   | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 363     | Nylon Buckle                                          | NO U.L.     | Not rated       | Y               | -40                        | - | 85  | -40  | - | 185  |
| 364     | Silicone Rubber                                       | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 365     | 304 Stainless Steel                                   | NO U.L.     | Not rated       | Y               | -200                       | - | 870 | -328 | - | 1598 |
| 366     | PE Hook                                               | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 367     | Acrylic adhesive / PE copolymer foam / PE film liner  | NO U.L.     | Not rated       | Y               | -40                        | - | 125 | -40  | - | 257  |

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|---------|---------------------------------------------------|-------------|-----------------|-----------------|----------------------------|---|-----|------|---|------|
|         |                                                   |             |                 |                 | °C                         |   |     | °F   |   |      |
| 368     | Silicone Rubber                                   | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 369     | 18-8 Stainless Steel                              | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 370     | 304 Stainless Steel                               | NO U.L.     | Not rated       | Y               | -200                       | - | 870 | -328 | - | 1598 |
| 371     | Nylon 6, F.R., 30% Glass Filled                   | E140692     | V-0             | Y               | -40                        | - | 65  | -40  | - | 149  |
| 372     | Black Oxide Finish                                | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 373     | Brass                                             | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 374     | TPE                                               | E80017      | HB              | Y               | -60                        | - | 95  | -76  | - | 203  |
| 375     | Rubber adhesive / PE foam / Silicone paper liner  | NO U.L.     | Not rated       | Y               | 0                          | - | 70  | 32   | - | 158  |
| 376     | Acrylic adhesive / Acrylic foam / PE liner        | MH17478     | Not rated       | Y               | -35                        | - | 90  | -31  | - | 194  |
| 377     | Blue Polyolefin Pin                               | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 378     | Silicone Rubber                                   | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 379     | Silicone Rubber                                   | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 380     | Polyamide Tie                                     | NO U.L.     | Not rated       | Y               | -40                        | - | 85  | -40  | - | 185  |
| 381     | 304 Stainless Steel                               | NO U.L.     | Not rated       | Y               | -200                       | - | 870 | -328 | - | 1598 |
| 382     | 316 Stainless Steel                               | NO U.L.     | Not rated       | Y               | -200                       | - | 870 | -328 | - | 1598 |
| 383     | Silicone Rubber                                   | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 384     | TPE                                               | E80017      | HB              | Y               | -50                        | - | 95  | -58  | - | 203  |
| 385     | Nylon 6/6                                         | E41938      | V-2             | Y               | 0                          | - | 85  | 32   | - | 185  |
| 386     | Polyether Sulfone                                 | E108538     | V-0             | Y               | -30                        | - | 190 | -22  | - | 374  |
| 387     | TPE                                               | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 388     | PVC                                               | NO U.L.     | Not rated       | Y               | 0                          | - | 50  | 32   | - | 122  |
| 389     | TPE                                               | NO U.L.     | Not rated       | Y               | 0                          | - | 60  | 32   | - | 140  |
| 390     | Nylon 6, F.R.                                     | NO U.L.     | Not rated       | Y               | -40                        | - | 85  | -40  | - | 185  |
| 391     | Acrylic adhesive / PP film / Silicone paper liner | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 392     | Polyamide 6, Conductive                           | NO U.L.     | Not rated       | Y               | 0                          | - | 60  | 32   | - | 140  |
| 393     | PBT                                               | E36632      | HB              | Y               | -30                        | - | 140 | -22  | - | 284  |
| 395     | TPE                                               | E80017      | V-1             | Y               | -60                        | - | 90  | -76  | - | 194  |
| 396     | Aluminum                                          | NO U.L.     | Not rated       | Y               | -40                        | - | 115 | -40  | - | 239  |
| 397     | PP                                                | NO U.L.     | Not rated       | Y               | 0                          | - | 65  | 32   | - | 149  |
| 398     | Silicone Rubber                                   | E207571     | V-0             | Y               | -40                        | - | 150 | -40  | - | 302  |
| 399     | Polyamide 6.6, UV Resistant                       | NO U.L.     | Not rated       | Y               | -40                        | - | 65  | -40  | - | 149  |
| 400     | Acrylic adhesive / PE foam / PE film liner        | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 401     | PP                                                | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 402     | Polychloroprene Rubber                            | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 403     | Brass                                             | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 404     | TPE                                               | E80017      | HB              | Y               | -60                        | - | 85  | -76  | - | 185  |
| 405     | 304 Stainless Steel                               | NO U.L.     | Not rated       | Y               | -200                       | - | 870 | 328  | - | 1598 |
| 406     | Nylon 6/6                                         | E48285      | V-2             | Y               | -40                        | - | 85  | -40  | - | 185  |
| 407     | Liquid Silicone                                   | NO U.L.     | Not rated       | Y               | -40                        | - | 150 | -40  | - | 302  |
| 408     | Magnetic Rubber                                   | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 409     | LDPE                                              | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 410     | Acrylic adhesive / PE foam tape / PE film liner   | NO U.L.     | Not rated       | Y               | -40                        | - | 100 | -40  | - | 212  |
| 411     | PPE+PS, F.R.                                      | E45329      | V-0             | Y               | -30                        | - | 65  | -22  | - | 149  |
| 412     | LDPE                                              | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |
| 413     | Nylon 6                                           | NO U.L.     | Not rated       | Y               | -                          | - | -   | -    | - | -    |

An asterisk (\*) indicates data was not available at time of publication. Please see our website or contact your local Richco Representative for the necessary documentation.

**RAW MATERIAL SPECIFICATION/DISCLAIMER OF WARRANTY:** These Raw Material Specifications shall not be construed as creating an express warranty of description. The specifications are approximate and intended to serve only as guides and not as the basis of any sale, agreement or contract of goods sold by Richco, Inc. Richco, Incorporated reserves the right to change the raw material on any of its goods contained in this catalog without notice to any buyer. Further, these Raw Material Specifications have been provided by the manufacturer and Richco, Inc. does not warrant their accuracy.

**NYLON STORAGE GUIDELINES/SHELF LIFE:** All Richco nylon parts are packaged in sealed plastic bags and contain an appropriate level of moisture. When stored in the original unopened bags at 73°F (23°C) and 50% RH, parts shelf life is one year from date of shipment.

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