

Spring Steel Fasteners

Wall Studs, Conduit & Cable, Acoustical Tee, Beams, Hangers, Lathers Channel, Communication & Low Voltage, Accessories, Anchors

BLF-11





Introduction



Cooper B-Line has long been a leading manufacturer of support systems and electrical enclosures for the mechanical, electrical and telecommunications industries. Our products are used in industrial, commercial utility and OEM installations. Cooper B-Line is proud of the demanding standard of research, design, engineering, and manufacturing that go into each and every product. But exceptional quality and value is nothing new to Cooper B-Line. Our customers have access to the most complete product systems offered including metal framing, cable tray, Cent-R-Rail®, pipe hangers, electrical enclosures and Telecom products.

Many of Cooper B-Line's products are listed by Underwriters Laboratories, Inc. and approved by Canadian Standards Association. All Cooper B-Line products are manufactured to meet or exceed industry standards for their design and manufacture.

Cooper B-Line products are produced in five modern plants consisting of over 900,000 square feet. These facilities are located in Highland, Illinois; Troy, Illinois; Reno, Nevada; Sherman, Texas; and Pinckneyville, Illinois. Regional sales and distribution centers are located throughout the United States stocking standard Cooper B-Line products for quick service and delivery.

This catalog is designed to be helpful to contractors in the application and selection of spring steel fasteners and support products for construction and maintenance.

If a unique application requires a special design not included in this catalog, Cooper B-Line's engineering personnel are ready to furnish design consultation and realistic cost estimates. In addition, sales representatives with extensive product knowledge are located throughout the United States and abroad for your convenience.



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Website: www.cooperbline.com

Cooper B-Line's Ruff-IN product offering continues to expand with product and assembly options.

Due to the fast-paced growth of this category, the detailed product information now resides in its own brochure.

Pages 3'-7 provides a brief overview of the Ruff-IN product line offerings.









See Ruff-IN Pre-Fab Systems brochure for complete product information and part numbers.

B-Line Has The Total Pre-Fab Offering...

No matter what your preference for pre-fab may be, B-Line has it! Choose the pre-fab offering below that best fits your needs:

Basic Ruff-IN

Offering Contents: Bracket, Box, Mud Ring, Ground Wire

- Ideal solution for a contractor sampling pre-fab for the first time that wants to keep the control of his or her project.
- Published lead times of 3-5 days ARO, and NEXT DAY SHIPPING ON (16) QUICK-SHIP ASSEMBLIES. (See page 5)



Ruff-IN with Wiring Devices

Offering Contents: Basis Ruff-IN with Wiring Device or ArrowLink Connector and Protective Cover Plates

- Assemblies are pre-wired for quick plug and-play installation using Wago™ or wire nut connectors.
- Cooper Wiring Device's ArrowLink connector offers additional labor savings with its pluf in feature. (See page 4 for more details)



Ruff-IN with MC cables

Offering Contents: Basic Ruff-IN with Wiring Devices and MC Cable whip with connector(s)

- Pre-wired Ruff-IN assemblies with devices and a pre-cut MC cable whip attached.
- · Whip lengths available in 5-foot increments.
- Includes option to order MC cable whips only.



Total Ruff-IN

Perfect for a contractor that desires take-off services and engineering expertise of Cooper B-Line

- Perfect for a contractor interested in trying prefab for the first time that needs the engineering and assembly expertise of B-Line.
- Industry leading, published lead times for Total Ruff-IN quotation responses and order assembly.







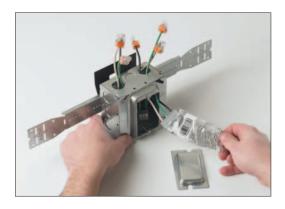
ArrowLink™ Modular Wiring Devices with Ruff-IN Pre-Fab Assemblies

The ArrowLink[™] Connector is now available as an accessory in the Ruff-IN Pre-Fab Systems offering.

- ArrowLink is available with every bracket option that includes the choice to add a wiring device. Each brochure page includes information on how ArrowLink can be added to an assembly.
- Assemblies will be pre-wired with ArrowLink connector end included to allow for quick cable installation.
- Assemblies include a cover plate attached to the mud ring for additional protection.
- The ArrowLink Modular devices are sold separately. See your local Cooper Wiring Device representative for details.







See Ruff-IN Pre-Fab Systems brochure for complete product information and part numbers.



Quick Ship Program

Next Day Shipping Available on 16 Ruff-In Assemblies

- No need to request a lead time, order today and we'll ship out of stock tomorrow!
- · Ruff-IN assemblies can be stocked at your local distributor.
- · Ask your Cooper B-Line Sales Representative for more information on stock-able Ruff-IN assemblies.







BB76-1104D

Croc-Lok w/ box

BBF18-1104DA



Ruff-IN Quick Ship Pre-Fab Assemblies			
Part Number	Description		
18" BBF Series Flo	or Mount , 1-Gang, TP403 Box		
BBF18-1104DA	5/8" plaster ring, stranded grd. wire	300	
BBF18-1104D	5/8" plaster ring, solid grd. wire	150	
BBF18-1124DA	³ / ₄ " plaster ring, stranded grd. wire	150	
BBF18-1124D	³ / ₄ " plaster ring, solid grd. wire	150	
6" Double-Sided B	ox Support , 1-Gang, TP403 Box		
BB76-1104DA	5/8" plaster ring, stranded grd. wire	300	
BB76-1104D	5/8" plaster ring, solid grd. wire	150	
BB76-1124DA	³ / ₄ " plaster ring, stranded grd. wire	150	
BB76-1124D	³ / ₄ " plaster ring, solid grd. wire	150	
16" Telescoping Slider Bracket, 1-Gang, TP403 Box			
BB216TS-1104DA	5/8" plaster ring, stranded grd. wire	300	
BB216TS-1104D	5/8" plaster ring, solid grd. wire	150	
BB216TS-1124DA	³ / ₄ " plaster ring, stranded grd. wire	150	
BB216TS-1124D	³ / ₄ " plaster ring, solid grd. wire	150	
Croc-Lok with Box,	1-Gang, TP403 Box		
BB2CL-1104DA	5/8" plaster ring, stranded grd. wire	300	
BB2CL-1104D	5/8" plaster ring, solid grd. wire	150	
BB2CL-1124DA	³ /4" plaster ring, stranded grd. wire	150	
BB2CL-1124D	³ /4" plaster ring, solid grd. wire	150	

See Ruff-IN Pre-Fab Systems brochure for complete product information and part numbers.

















See Ruff-IN Pre-Fab Systems brochure for complete product information and part numbers.



Cooper B-Line's Ruff-IN Configurator program has been developed to simplify the planning process for pre-fab construction. The program will walk you through a component selection process, build customized pre-fab assemblies, and create a project BOM to accelerate the quotation process.

Configurator Features

- Build an assembly to your own specification by choosing from brackets, boxes, plaster rings, wiring devices, and other accessories.
- Check the assembly for accuracy by reviewing a 3D, rotatable image that is created in real time.
- Configure multiple assemblies and save them as a project.
- Divide the project into rooms and specify the types and quantities of assemblies that go in each location.
- Print a customized project submittal package with the push of a button.
- Submit the entire project with your specific job and assembly information to B-Line for a quote with one click.

All of these features translate into fewer mistakes and less time spent during the take-off process. Let the B-Line Ruff-IN Configurator go to work for you. Build your next project using Cooper B-Line's Ruff-IN pre-fabricated wiring assemblies today!





See Ruff-IN Pre-Fab Systems brochure for complete product information and part numbers.

Wall Studs

































































Conduit & Cable



















Conduit & Cable









































Acoustical Tee

































Acoustical Tee











Pictorial Index







Beams















































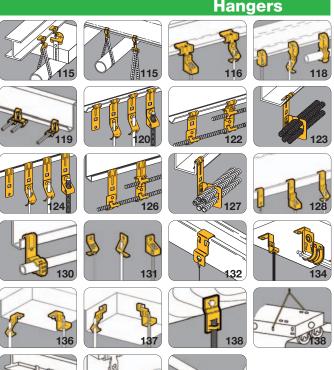








Hangers



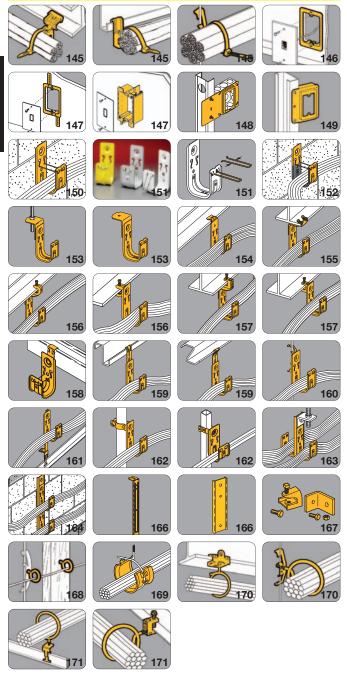
Lathers Channel

139



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Communication & Low Voltage





Dictorial Ind

Pictorial Index

Accessories



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Anchors





Part Numbering Guide

This part numbering guide can be used to quickly translate our part numbers into meaningful data.

*BCS/BES - Conduit Spacer BD - Deck Attachment 8 - 1/2" FB - Flat Black *BE - Edge Attachment 9 - 9/16" GR - Green BF - Flange Attachment 12 - 3/4" H- Hanger *BG - Guide-Rite Fastener BH - Hanger Attachment 20 - 11/4" LN - Less Nut BK - KwikWire 24 - 11/2" LS - Less Stud BL - Conduit Hangers (mini's) 32 - 2" OR - Orange	A Series - Anchors *B Series - Pipe Strap BA - Acoustical Tee Component BB - Box Attachment BC - Beam Clamp	Based on 16th of an inch 1 - ¹ / ₁₆ " 2 - ¹ / ₈ "	AS - Anchor Strap BL - Equipment Blue BN - Brass Nut
A Series - Anchors *B Series - Pipe Strap BA - Acoustical Tee Component BB - Box Attachment BC - Beam Clamp *BCH - Cable Hook *BCS/BES - Conduit Spacer BD - Deck Attachment BE - Edge Attachment BF - Flange Attachment BF - Flange Attachment BF - Guide-Rite Fastener BH - Hanger Attachment BK - KwikWire BC - Orange Based on 16th AS - Anchor Strap BL - Equipment Blue BN - Brass Nut BR - Brown BW - Bright White CW - Computer White CW - Computer White CW - Computer White BW - Bright White CW - Computer White CW - Computer White BC - 3/8" D - Deep Box BB - Flat Black BR - Flat Black GR - Green BF - Flange Attachment 12 - 3/4" H- Hanger LH - Less Hardware BH - Hanger Attachment 20 - 11/4" LN - Less Nut BC - Conduit Hangers (mini's) 32 - 2" OR - Orange	A Series - Anchors *B Series - Pipe Strap BA - Acoustical Tee Component BB - Box Attachment BC - Beam Clamp	Based on 16th of an inch 1 - ¹ / ₁₆ " 2 - ¹ / ₈ "	AS - Anchor Strap BL - Equipment Blue BN - Brass Nut
*B Series - Pipe Strap of an inch BA - Acoustical Tee Component BB - Box Attachment BC - Beam Clamp *BC - Conduit Spacer BD - Deck Attachment BB - Edge Attachment BC - Beam Clamp *BC - Beam Clamp *BC - Syles BD - Deck Attachment BC - Syles BC - Green BF - Flange Attachment BF - Flange Attachment BF - Guide-Rite Fastener BH - Hanger Attachment BK - KwikWire BC - 11/4" BC -	*B Series - Pipe Strap BA - Acoustical Tee Component BB - Box Attachment BC - Beam Clamp	of an inch 1 - ¹ / ₁₆ " 2 - ¹ / ₈ "	BL - Equipment Blue BN - Brass Nut
BA - Acoustical Tee Component BB - Box Attachment BC - Beam Clamp A - 1/4" BC - Beam Clamp A - 1/4" BC - Beam Clamp A - 1/4" BC - Beam Clamp BC - Beam Clamp BC - Strie BC - Conduit Spacer BCS/BES - Conduit Spacer BC - 3/8" BC - Deek Attachment BC - Beam Clamp BC - Strie BC - Green BC - 3/8" BC - Deep Box BC - Beam Clamp BC - Beam Clamp BC - Strie BC - Green BC - Strie BC - Green BC - GR	BA - Acoustical Tee Component BB - Box Attachment BC - Beam Clamp	1 - ¹ / ₁₆ " 2 - ¹ / ₈ "	BN - Brass Nut
BB - Box Attachment BC - Beam Clamp 4 - 1/4" BW - Bright White *BCH - Cable Hook 5 - 5/16" CW - Computer White *BCS/BES - Conduit Spacer 6 - 3/8" D - Deep Box BD - Deck Attachment 8 - 1/2" FB - Flat Black *BE - Edge Attachment 9 - 9/16" GR - Green BF - Flange Attachment 12 - 3/4" H- Hanger *BG - Guide-Rite Fastener BH - Hanger Attachment 20 - 11/4" LN - Less Nut BK - KwikWire 24 - 11/2" LS - Less Stud BL - Conduit Hangers (mini's) 32 - 2" OR - Orange	BB - Box Attachment BC - Beam Clamp	2 - 1/8"	
BC - Beam Clamp $4 - 1/4$ " BW - Bright White *BCH - Cable Hook $5 - 5/16$ " CW - Computer White *BCS/BES - Conduit Spacer $6 - 3/8$ " D - Deep Box BD - Deck Attachment $8 - 1/2$ " FB - Flat Black *BE - Edge Attachment $9 - 9/16$ " GR - Green BF - Flange Attachment $12 - 3/4$ " H- Hanger *BG - Guide-Rite Fastener $16 - 1$ " LH - Less Hardware BH - Hanger Attachment $20 - 11/4$ " LN - Less Nut BK - KwikWire $24 - 11/2$ " LS - Less Stud BL - Conduit Hangers (mini's) $32 - 2$ " OR - Orange	BC - Beam Clamp		DD Drawn
*BCH - Cable Hook $5-5/16$ " CW - Computer White *BCS/BES - Conduit Spacer $6-3/8$ " D - Deep Box BD - Deck Attachment $8-1/2$ " FB - Flat Black *BE - Edge Attachment $9-9/16$ " GR - Green BF - Flange Attachment $12-3/4$ " H- Hanger *BG - Guide-Rite Fastener $16-1$ " LH - Less Hardware BH - Hanger Attachment $20-11/4$ " LN - Less Nut BK - KwikWire $24-11/2$ " LS - Less Stud BL - Conduit Hangers (mini's) $32-2$ " OR - Orange			BK - BIOWII
*BCS/BES - Conduit Spacer $6 - 3/8$ " D - Deep Box BD - Deck Attachment $8 - 1/2$ " FB - Flat Black *BE - Edge Attachment $9 - 9/16$ " GR - Green BF - Flange Attachment $12 - 3/4$ " H- Hanger *BG - Guide-Rite Fastener $16 - 1$ " LH - Less Hardware BH - Hanger Attachment $20 - 11/4$ " LN - Less Nut BK - KwikWire $24 - 11/2$ " LS - Less Stud BL - Conduit Hangers (mini's) $32 - 2$ " OR - Orange	*DOIL 0.11.11.1	4 - 1/4"	BW - Bright White
BD - Deck Attachment *BE - Edge Attachment BF - Flange Attachment *BG - Guide-Rite Fastener BH - Hanger Attachment BK - KwikWire BL - Conduit Hangers (mini's) *BC - Deck Attachment BC - 9/16" GR - Green H- Hanger H- Hanger LH - Less Hardware LN - Less Nut LS - Less Stud OR - Orange	"BCH - Cable Hook	5 - ⁵ /16"	CW - Computer White
*BE - Edge Attachment $9 - \frac{9}{16}$ " GR - Green BF - Flange Attachment $12 - \frac{3}{4}$ " H- Hanger *BG - Guide-Rite Fastener $16 - 1$ " LH - Less Hardware BH - Hanger Attachment $20 - \frac{11}{4}$ " LN - Less Nut BK - KwikWire $24 - \frac{11}{2}$ " LS - Less Stud BL - Conduit Hangers (mini's) $32 - 2$ " OR - Orange	*BCS/BES - Conduit Spacer	6 - 3/8"	D - Deep Box
BF - Flange Attachment *BG - Guide-Rite Fastener BH - Hanger Attachment BK - KwikWire BL - Conduit Hangers (mini's) *BF - Flange Attachment 20 - 11/4" LN - Less Nut LN - Less Stud CR - Orange	BD - Deck Attachment	8 - 1/2"	FB - Flat Black
*BG - Guide-Rite Fastener 16 - 1" LH - Less Hardware BH - Hanger Attachment 20 - $1^{1}/4$ " LN - Less Nut BK - KwikWire 24 - $1^{1}/2$ " LS - Less Stud BL - Conduit Hangers (mini's) 32 - 2" OR - Orange	*BE - Edge Attachment	9 - 9/16"	GR - Green
BH - Hanger Attachment 20 - 11/4" LN - Less Nut BK - KwikWire 24 - 11/2" LS - Less Stud BL - Conduit Hangers (mini's) 32 - 2" OR - Orange	BF - Flange Attachment	12 - ³ /4"	H- Hanger
BK - KwikWire 24 - 11/2" LS - Less Stud BL - Conduit Hangers (mini's) 32 - 2" OR - Orange	*BG - Guide-Rite Fastener	16 - 1"	LH - Less Hardware
BL - Conduit Hangers (mini's) 32 - 2" OR - Orange	BH - Hanger Attachment	20 - 1 ¹ /4"	LN - Less Nut
3	BK - KwikWire	24 - 1 ¹ /2"	LS - Less Stud
RM - Miscellaneous 64 - 4" R - Right Angle	BL - Conduit Hangers (mini's)	32 - 2"	OR - Orange
Divi - iviiscellarieous 04 - 4 it - riigiti Aligie	BM - Miscellaneous	64 - 4"	R - Right Angle
BN - Push Nuts RR - Regal Red	BN - Push Nuts		RR - Regal Red
*BP - Push Type Fasteners S - Stud	*BP - Push Type Fasteners		S - Stud
*BPC - Break Apart Straps T - Threaded	*BPC - Break Apart Straps		T - Threaded
*BR - Bridle Rings TG - Telco Gray	*BR - Bridle Rings		TG - Telco Gray
BRC - Cable Fastener W - White	BRC - Cable Fastener		W - White
*BRS - Bridle Ring Saddle WBN - White /Brass Nu	*BRS - Bridle Ring Saddle		WBN - White /Brass Nut
BT - Installation Tools WN - Wing Nut	BT - Installation Tools		WN - Wing Nut
*BU - Universal Beam Attachment YL - Safety Yellow	*BU - Universal Beam Attachment		YL - Safety Yellow
BW - Bat Wing Fastener 4T - 1/4" Thread Imp.			4T - ¹ /4" Thread Imp.

^{*} The data in the size column only applies to these product families.

BX - FMC Support

Materials

Steel	Specification
High Carbon Cold Rolled	ASTM A684, AISI 1055
Electrolytic Zinc Coated	ASTM A591
Pre-Galvanized	ASTM A653

Steel

Cooper B-Line's spring steel fasteners are manufactured from spheroidized annealed high carbon cold rolled steel (ASTM A684, AISI 1055). Mild steel fasteners are manufactured from electrolytic zinc coated steel (ASTM A591) or pre-galvanized steel (ASTM A563).

Electrolytic zinc coated and pre-galvanized steel is produced by coating coils of sheet steel with zinc at the mills. These coils are then slit to size and fabricated into Cooper B-Line products.

Heat Treatment

Cooper B-Line spring steel fasteners are heat treated to make the steel hard and give the parts their spring quality and strength. The hardness for a given fastener depends on the required load carrying capacity and the application.

Load Data

The design load ratings for Cooper B-Line fasteners are specified in this catalog as static load capacity or ultimate static load capacity. By definition, the listed static load capacity has a safety factor of three (3.0), the listed ultimate static load capacity has no safety factor. In either case, these stated loads are not to be exceeded, and loads should be applied only as depicted in the catalog and/or instruction sheets. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Fasteners having no load ratings are designed for proper placement of boxes, conduit, etc., and not for supporting loads.

Cooper B-Line fasteners are designed for use with support members (e.g.: angle iron, bar joists, beams, columns, flanges, purlins, wire, rod) that comply with the applicable AISI standards and threaded rod that complies with the applicable AISI standards.

Quality Assurance

Cooper B-Line has an established Q.C. program in which raw material and finished products are sampled, inspected and tested by certified inspectors to assure that all applicable standards are met. Cooper B-Line's fasteners are manufactured in controlled lots and each part is identified by a lot number stamped into the part. This number allows Cooper B-Line to track each step of the manufacturing process including raw material, die set-up, heat treating, and finishing. Samples are tested to verify correct hardness, corrosion resistance and load carrying capacity.



Technical Data - Finishes

Finish	Specification
Zinc-Phosphate	MIL-P-16232 Type Z
Electro-galvanized Zinc	ASTM B633
Pre-Galvanized Zinc	ASTM A653, G90
Gloss White Paint	Acrylic Enamel

Zinc Phosphate

Cooper B-Line's spring steel fasteners receive a coating* of sealant impregnated zinc phosphate. This type of coating was commercially developed by industry to inhibit oxidation of ferrous metals for up to 72 hours in a specified salt fog atmosphere. As applied to its fasteners, Cooper B-Line rates this coating for 30 hours when salt fog tested per ASTM B-117.

Although rust resistant, Cooper B-Line fasteners should be used only indoors and in non-corrosive environments.

Unless otherwise noted, the standard finish for Cooper B-Line's spring steel fasteners is Zinc Phosphate.

*At least 1000 milligrams of zinc phosphate per square foot.

Paint

Some standard fasteners have a gloss white acrylic enamel applied over the zinc phosphate finish for an enhanced appearance that compliments white ceiling grids.

Electro-galvanized Zinc

Electro-galvanized zinc (also known as zinc plated or electroplated) is the process by which a coating of zinc is deposited on the steel by electrolysis from a bath of zinc salts.

The coating is pure zinc and is mechanically bonded to the steel. A maximum of .5 mils of zinc can be applied by this method.

When exposed to air and moisture, zinc forms a tough, adherent, protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. This film is in itself a barrier coating which slows subsequent corrosive attack of the zinc.

This coating is usually recommended for indoor use in relatively dry areas.

Pre-Galvanized Zinc

Pre-galvanized steel is produced by coating coils of sheet steel with zinc by continuously rolling the material through molten zinc at the mills. This is also known as mill galvanized or hot-dip mill galvanized. These coils are then slit to size and fabricated into Cooper B-Line products.

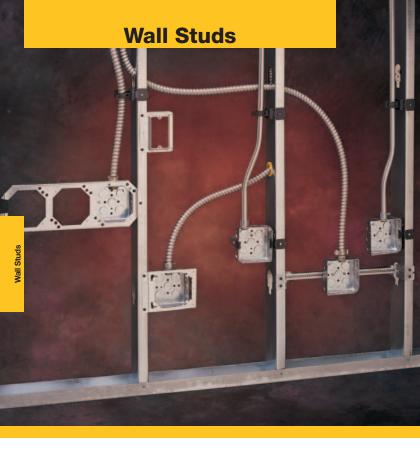
The G90 specification calls for a coating of .90 ounces of zinc per square foot on each side of the sheet.

During fabrication, cut edges and welded areas are not normally zinc coated; however, the zinc near the uncoated metal becomes a sacrificial anode to protect the bare areas after a short period of time.

Pre-galvanized steel is recommended for indoor use in dry areas.

CAUTION: Do not use Cooper B-Line Fasteners outdoors or in corrosive environments. Proper application of each fastener is shown in this catalog and on the installation sheet inside each carton. Failure due to improper installation may cause harm to personnel and/or property. Allowable loads shown apply to the fastener only and do not account for the structure, which supports the fastener. Flanges, wires and rods used with these fasteners must meet A.I.S.I. standards. To improve personal safety on the jobsite, always observe all federal and local safety regulations: wear gloves, safety glasses and a hard hat.







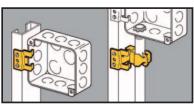








- Attaches with screws to metal studs.
- BB1 supports electrical box.
- BG series features Guide-Rite[®] design.
- BP series features push-type design.





Box To Stud

c(UL) us

UPC/Part Number Catalog Number

Description

Box Qty.

781011 18145

BB1

Electrical Box Support Clip 100



Guide-Rite® Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
781011 18420	BG-6-B1*	3/8"	100
781011 18475	BG-8-12-B1	1/2", 3/4"	100
781011 18555	BG-16-B1	1"	100

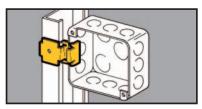
Patent #4958792

^{*} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit

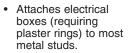


Push Type Conduit To Stud Fastener

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19245 781011 19345	BP-8-B1 BP-12-B1	¹ /2" EMT ³ /4" EMT, ¹ /2" IMC, Rigid	100 100
781011 19440	BP-16-B1	1" EMT, ³ /4" IMC, Rigid	100



Box To Stud Fastener



- Box mounts flush to back of drywall.
- Simply installed with a hammer.





Vall Studs

UPC/Part Number

Catalog Number

Description

Box Qty.

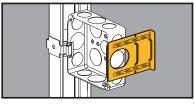
781011 18270

BB9

Flectrical Box Support

100

- · Provides far-side support for electrical boxes in 21/2" thru 6" studs.
- · Cut outs facilitate bending to provide precise installation with greater stability.
- Easily snaps onto box side and is secured in place by plaster ring.



Adjustable Box Stabilizers







c(UL)us

Catalog Number

Metal Stud Size

Box Qty.

781011 92876 781011 92879

UPC/Part

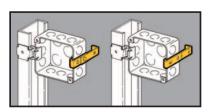
Number

BB12 BB12-6 21/2" thru 4" 6"

100 100



- Provides far-side support for electrical boxes.
- See BB12 Series for a better solution.



Box Stabilizer



BB1-90



BB1-64



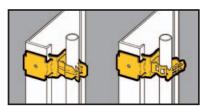
BB1-56



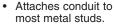
BB1-40



UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
781011 18320	BF1-40	2 ¹ /2"	100
781011 18325	BF1-56	31/2"	100
781011 18330	BF1-64	4"	100
781011 18335	BF1-96	6"	100



Guide-Rite® Conduit To Stud Fastener



- BG Series features Guide-Rite[®] design.
- BP Series feature push-type design.



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UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
781011 18425	BG-6-B5 *	³ /8" or BX	100
781011 18480	BG-8-12-B5	1/2", 3/4"	100
781011 18560	BG-16-B5	1"	100
781011 18645	BG-20-B5	1 ¹ /4"	50

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Patent #4958792

Push Type Conduit To Stud Fastener

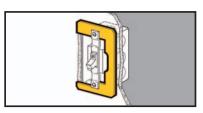


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19250	BP-8-B5	¹ /2" EMT	100
781011 19350	BP-12-B5	³ /4" EMT, ¹ /2" IMC, Rigid	100
781011 19445	BP-16-B5	1" EMT 3/4" IMC, Rigid	100



^{*} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit

- BB32 adds rigidity to devices in oversize wall openings.
- Holds wiring device firmly in drywall.
- Can be used with switches, receptacles, GFCIs and decorator devices.
- Ideal for positioning devices in pre-fab installations.
- Finish: Pre-Galvanized



Retainer Leveler





UPC/Part Number Catalog Number

Description

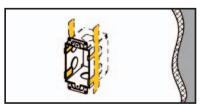
Box Qty.

781011 18215

BB32

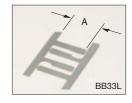
Adds Rigidity to Oversize Wall Openings 100

- Attaches electrical boxes to finished drywall.
- Box is completely supported by drywall.
- Prevents box from pulling out of wall.
- · Finish: Pre-Galvanized



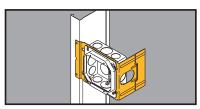
Box Support







UPC/Part Number	Catalog Number	Description	Length A	Box Qty.
781011 01138	BB33	Box Support	11/2"	100 pr.
781011 04936	BB33L	Long Leg Box Support	21/4"	100



Box Support Brackets



BB4-23

- Improved far-side support stands up during drywall installation and out performs competitor brackets.
- Supports 4" or 4¹¹/16", square boxes.
- Brackets may be piggybacked in series.
- · Finish: Pre-Galvanized.
- See Ruff-IN brochure for pre-fab box assemblies.



BB4-4



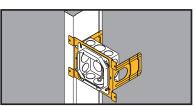
BB4-6



UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
781011 18190	BB4-23	3 ¹ /2", 2 ¹ /2"	100
781011 18200	BB4-4	4", 31/2", 21/2"	100
781011 18202	BB4-6	6", 5 ¹ /2", 3 ¹ /2", 2 ¹ /2"	100



- Double-side box support, designed for Pre-Fab. Unit can be installed on either side of stud without repositioning box or devices.
- Patented Marty-Mouse Ears[™] feature an innovative keyhole pattern to secure outlet box to bracket with or without the plaster ring.
- Wider box opening accommodates one or two gang adjustable plaster rings (B1AJ & B2AJ).
- Enhanced far-side support stands up during drywall installation and out performs competitor brackets.
- See Ruff-IN brochure for pre-fab box assemblies.
- · Finish: Pre-Galvanized



Double-Sided Box Support Bracket w/ Marty-Mouse Ears™

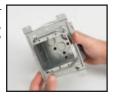




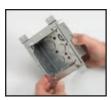
1. Bracket is shipped with ear tabs in the open position



3. When plaster ring is installed, the ear tabs are bent down into the closed position



2. Insert box screws into open slots



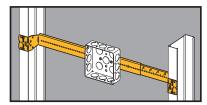
4. With the tabs closed, the box remains secured to the bracket when the plaster ring is removed



UPC/Part Number	Catalog Number	Stud Size	Box Qty.
782051 38645	BB73	3 ¹ /2", 2 ¹ /2"	50
782051 38717	BB74	4", 3 ¹ /2", 2 ¹ /2"	50
782051 38759	BB76	6", 5 ¹ /2", 3 ¹ /2", 2 ¹ /2"	25

Patent # 5595362





Telescoping Box Mounting Bracket



- Completely adjustable - fits a range of stud spacings and 11/2" or 2¹/8" deep boxes.
- Pre-punched screw holes provide for easy box installation.
- Bar is marked with scale for stud spacing.
- Finish: Pre-galvanized



L	JPC/	Part
	Num	ber

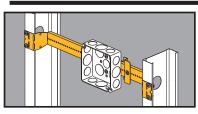
Number	

Metal Stud	
Spacing	

Box Qty.

781011 04256 781011 01664 **BB2-16T BB2-24T** 11" to 18" 15" to 26" 50 50

Licensed under Patent #5386959 • Patent #5209444



Telescoping Slider Bracket

- Designed for pre-fab.
- Box can be attached to slider bracket before or after slider is installed on telescoping bracket.
- Box location can be field adjusted by moving slider along telescoping bracket.
- See Ruff-IN brochure for pre-fab box assemblies.
- Finish: Pre-galvanized







BB216TS

Catalog Number

Stud Spacing

Box Qty.

782051 38614 782051 38628

UPC/Part

Number

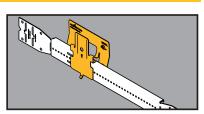
BB216TS BB224TS BB2TS

11" to 18" 15" to 26" Slider Bracket Only 20 20 50

782051 38613 Patent # 7,472,875



- · Designed for pre-fab..
- Outlet boxes mount to the Crok-Lok with single screw.
- Croc-LokTM box assemblies can be attached before or after the telescoping bar is mounted in the stud wall.
- The tool-less design enables Crok-Lok assemblies to be field installed in less than 4 seconds. Simply squeeze, secure and walk away.
- See Ruff-IN brochure for pre-fab box assemblies.



Croc-Lok™ Box Mounting Bracket





UPC/Part Number	Catalog Number	Stud Spacing	Description	Box Qty.
782051 51291	BB2CL	N/A	Croc-Lok only	50
782051 51292	BB216TCL	11"-16"	BB216T with Croc-Lok	20
782051 51293	BB224TCL	15"-24"	BB224T with Croc-Lok	20
			Patent Pend	ling

Note:

Secures to Cooper B-Line BB2-16T and BB2-24T telescoping brackets only. For a standard 2¹/8" deep box, the stud depth must be 3¹/2" or greater. For a shallow 1¹/2" deep box, the stud depth must be 2¹/2" or greater.

Mounting Screws





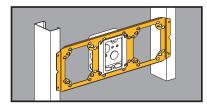
Sheet Metal Screw

UPC/Part	Catalog	Description	Box
Number	Number		Qty.
781011 01675	BWHS-9	#8 x ⁹ /16" Sheet Metal Screw	1000

781011 04925 BWHS-9D #8 x ⁹/16" 1000 Self-Drilling

Note: BWHS-9 & BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws, except on BB2-16, BB2-16D, BB2-24 & BB2-24D which only BWHS-9 can be used.





Box Mounting Bracket

- Supports boxes or plaster rings between studs 16" or 24" on center.
- Accepts US & Canadian boxes.
- Accommodates 4" or 4¹¹/₁₆" boxes.
- Allows side-by-side mounting of 1¹/2" or 2¹/8" deep boxes.
- See Ruff-IN brochure for pre-fab box assemblies.
- Finish: Pre-galvanized





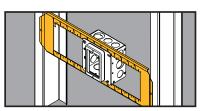


UPC/Part Number	Catalog Number	Description	Box Qty.
781011 02898	BB8-16	16" Stud Spacing	25
781011 02900	BB8-24	24" Stud Spacing	25



Wall Studs

- Open box Support secures boxes and plaster rings between studs 16" and 24" on center.
- Accommodates 4", 4¹¹/16" and multi-gang boxes.
- Open design allows infinite adjustability - box can be placed in any horizontal position along the bracket.
- Stamped markings at ¹/₄", ¹/₂" and 1" increments allow the installer to easily locate the desired box position.
- See Ruff-IN brochure for pre-fab box assemblies.
- · Finish: Pre-galvanized



Open Box Mounting Bracket

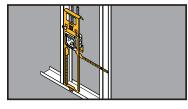






UPC/Part Number	Catalog Number	Description	Box Qty.
782051 45325	BB7-16	16" Stud Spacing	25
782051 45328	BB7-24	24" Stud Spacing	25

- New BBF floorstand provides the most rigid support in the industry.
- Far-side support accomodates 6", 51/2", 3⁵/8", and 2¹/2" stud depths.
- · Fold-out tab built-in to attach floor stand to stud if desired.



Floor-Mount Box Support

- Integral "wings" provide rigid support when floorstand is mounted between studs.
- Optional cable containment clip securely attaches to floorstand without hardware.
- · Patented Marty Mouse ears enable boxes to be secured in place with or without the plaster rings.
- Finish: Pre-galvanized.
- See Ruff-IN brochure for pre-fab box assemblies.





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BBF15



BBF18

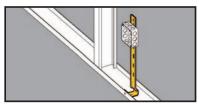
BBF24

BBFxxC

UPC/Part Number	Catalog Number	Box Center Height	Box Qty.
782051 52944	BBF15	15" Floorstand	25
782051 52945	BBF18	18" Floorstand	25
782051 52946	BBF24	24" Floorstand	25
782051 52947	BBFC	Cable Clip	25
782051 52948	BBF15C	15" Floorstand with Cable Clip	25
782051 52949	BBF18C	18" Floorstand with Cable Clip	25
782051 52950	BBF24C	24" Floorstand with Cable Clip	25
Patont # 5505362	Patent Ponding		

Patent # 5595362, Patent Pending





Floor Mounted Box Support

- See BBF Series for a better solution.
- Provides support for electrical box from floor track or concrete forms.
- 18" length with breakaway feature for 12" or 16" box mounting.
- Finish: Pre-galvanized





UPC/Part
Number

Catalog Number

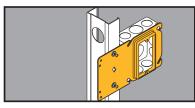
Description

Box Qty.

781011 03623

BB-18

Floor Mounted Box Support 50



Uni-Mount[™] Box Support/Cover Plate Mounting Bracket

- Uni-Mount[™] provides a secure support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Enlarged viewing hole makes it easier to find mark lines on the stud.
- Gangable design accepts BB423 bracket to mount boxes on both sides of the stud.
- See Ruff-IN brochure for pre-fab box assemblies.
- Finish: Pre-galvanized



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Single Gang

UPC/Part Number	Catalog Number	Description	Box Qty.
782051 22768	BB40-08	¹ /2" Raise	50
782051 22771	BB40-10	5/8" Raise	50
782051 22772	BB40-12	³ /4" Raise	50





Double Gang

UPC/Part Number	Catalog Number	Description	Box Qty.
782051 22773	BB45-08	¹ /2" Raise	50
782051 22774	BB45-10	5/8" Raise	50
782051 22775	BB45-12	³ /4" Raise	50



walls

Wall Studs

- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- · Can be piggy-backed.
- For ¹/₂" and ⁵/₈" drywall applications.
- Finish: Pre-galvanized



Cover Plate Mounting Bracket





UPC/Part Number Catalog Number

Description

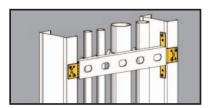
Box Qty.

781011 19873

BB15

Single Gang Stud Bracket 50

- Attaches ¹³/₁₆" strut, 1¹/₂" lathers channel, ¹/₂" EMT or ³/₄" EMT to metal studs.
- Provides support for vertical runs of conduit.
- Finish: Pre-galvanized



Strut Mounting Brackets



UPC/Part Number Catalog Number

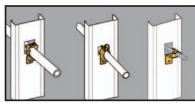
Description

Box Qty.

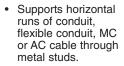
781011 01658

BMB₁

Strut Mounting Bracket 25 pr.



Conduit/Cable Supports



- Attaches easily with a single sheet metal screw.
- Prevents conduit/cable rattling.



ւ (Մ) սո BG-x-H7



BP-x-H7







BX4M-H7

UPC/Part Number	Catalog Number	Conduit/Cable Size	Box Qty.
781011 01228 781011 01238 Patent #4958792	BG-6-H7 * BG-8-12-H7	³ /8", MC, AC, or FMC 1/2" or ³ /4"	100 100
781011 01227 781011 01226	BP-8-H7 BP-12-H7	¹ /2" EMT ³ /4" EMT ¹ /2" IMC, Rigid	100 100
781011 01200	ВХ4-Н7	MC, AC, or FMC	100
781011 01205	вх4м-н7	MC, AC, or FMC	100

^{*} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit



Wall S

Wall Studs

- Attaches MC, AC, sizes 14/2 through 10/3 or ³/₈" FMC to studs or flanges up to ³/₁₆" thick.
- Snaps into place on metal stud openings or may be screwed to metal or wood studs.
- BX4M may be snapped in half to make two BX4's.
- Allows cables to be positioned a minimum of 1¹/₄" from face of stud as required by NEC Article 300.4(D).



Flexible Conduit/ Cable Fasteners









BX4IVI



BX4MD

UPC/Part	
Number	

Catalog Number

Description

Box Qty.

781011 01079

BX4

Single Runs

100

781011 01080

BX4M

Double Runs

100

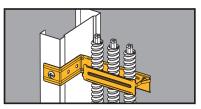
781011 01224

BX4MD

Up to 4 Runs

100





Cable Support



- Metal cable support can be used in plenum-rated areas.
- · Longer locking tabs.
- Shipped pre-assembled.
- Hinge can be opened for greater cable capacity.
- Allows cables to be positioned a minimum of 1¹/₄" from face of stud as required by NEC Article 300.4(D).



UPC/Part Number Catalog Number

Description

Box Qty.

781011 04980

BRC4M

Up to 3/4" FMC

100

Note: Canadian applications are limited to wood studs only.

	Cable Type						
Cable	Non-l	Metallic	Meta	al Clad	Armore	Armored Cable	
Size	1)	VM)	(N	(MC)		C)	
	Qty.	Dia.	Qty.	Dia.	Qty.	Dia.	
14-2 w/ Grnd	8	.360	5	.439	5	.464	
14-3 w/ Grnd	8	.307	5	.464	5	.483	
14-4 w/ Grnd	8	.336	4	.494	4	.517	
12-2 w/ Grnd	7	.410	5	.475	4	.498	
12-3 w/ Grnd	8	.347	4	.505	4	.521	
12-4 w/ Grnd	7	.381	4	.539	4	.557	
10-2 w/ Grnd	6	.494	4	.542	4	.560	
10-3 w/ Grnd	7	.422	4	.580	4	.588	
10-4 w/ Grnd	NA	NA	3	.623	3	.632	
8-2 w/ Grnd	4	.612	NA	NA	NA	NA	
8-3 w/ Grnd	4	.565	NA	NA	NA	NA	
6-2 w/ Grnd	4	.650	NA	NA	NA	NA	
5/16 FMC		5	(,470 to	.510 Dia	ı.)		
3/8 FMC	4 (.560 to .610 Dia.) 1 (.860 to .920 Dia.) 1 (1.045 to 1.105 Dia.)						
1/2 FMC							
3/4 FMC							

The quantity of cables shown in the chart is the maximum. Fewer cables can be supported. Diameters are based on data from a leading cable manufacturer (may vary slightly). Diameters of some NM cables refer to the widest dimension of a flat

Diameters of some NM cables refer to the widest dimension of a flat cable. NA = Not applicable



- · Individual plastic staples grip cable and reduce slipping.
- Secures up through #10 type NM cable.
- Supports AC, MC or FMC cable up to 1/2" O.D.
- Break-apart feature allows installation on studs and furring strips.
- Allows cables to be positioned a minimum of 11/4" from face of stud as required by NEC Article 300.4(D).



Staple-Lok™ Multi-Purpose Cable Support

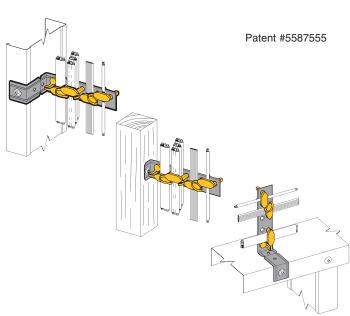


UPC/Part Catalog Box Cable Size Qty. Number Number

781011 03587

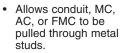
BRC4

Up to .500" O.D. 100





Conduit/Cable Supports



- Provides support for horizontal runs of conduit or cable through metal stud.
- Prevents conduit/cable rattling.
- Finish: Pre-galvanized



UPC/Part

Catalog Number Conduit/Cable Size

Box Qty.

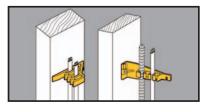
781011 01657

Number

BX82

Up to 1"

100



Cable Fasteners



UPC/Part



BRC1

BRC2

Catalog

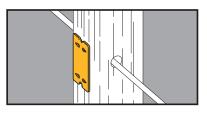
- Attaches Type NM cables to wood studs.
- Can be used to support computer, CATV, telephone, security and instrumentation cables.
- Provided with nail inserted.
- Allows cables to be positioned a minimum of 1¹/₄" from face of stud as required by NEC Article 300.4(D).

Number	Number	Description	Qty.
781011 02941	BRC1	Wood Stud Cable Fastener	50
781011 02942	BRC2	Furring Strip Cable Fastener	50



Wall Studs

- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Easily installed with a hammer.
- Complies with NEC Article 300-4.

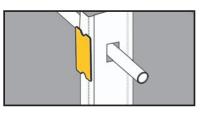


Nail Plates For Wood Studs

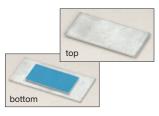


UPC/Part	Catalog	Description	Box
Number	Number		Qty.
781011 04927	вмз	Nail Plate	100

- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Comes with industrial grade double stick tape on back for easy installation on stud.
- Complies with NEC Article 300-4.



Nail Plates For Metal Studs





Just Peel Tape and Stick To Stud

UPC/Part Number Catalog Number

Description

Box Qty.

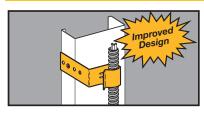
782051 26251

BM3M

Nail Plate

100





Conduit Support







BB38

	1
BB38D	

UPC/Part Number

Catalog Number

Box Depth

Larger capacity: Redesigned BB38D attaches 1/2" to 1" EMT or flexible conduit to metal or wood studs. BB38 attaches MC/AC cable, ¹/2" & ³/4" EMT to metal or wood studs.

Eliminates the need for offset bending of conduit. Aligns conduit with

standard box knockouts.

Box Qty.

781011 04265

BB38

11/2"

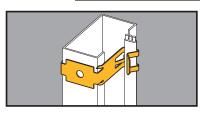
100

781011 95244

BB38D

21/8"

100



Flexible Conduit/ **Cable Fasteners**

- Secures Romex® sizes 14/2 w/ground thru 12/3 w/ground, MC/AC sizes 14/2 thru 12/3 to metal or wood studs.
- Allows cables to be positioned a minimum of 11/4" from face of stud as required by NEC Article 300.4(D).





UPC/Part Number

Catalog Number

Description

Box Qty.

781011 19755

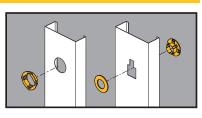
BX5

Secures Flexible Conduit or Cable to Metal or Wood Studs 100

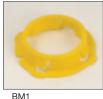


Wall Studs

- BM1 snaps into standard 1¹¹/₃₂" diameter holes in metal studs from 25 Ga. to 16 Ga.
- Redesigned BM2 is shipped as one piece and easily separated for installation.
- Universal BM2 provides 360° protection. Fits all factory punched metal stud holes.
- Protects wire insulation in accordance with NEC Article 300.4(B) (1).



Metal Stud Grommet



BIVI I



BM2



UPC/Part Number	Catalog Number	Description	Box Qty.
781011 19100	BM1	Plastic Grommet	100
781011 19102	вм1м	Plastic Grommet (Bulk Quantity)	1000
781011 04926	BM2	Universal Grommet	100







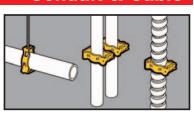








- Supports 3/8" to 2" conduit.
- Unique Guide-Rite[®]
 Fastener provides for fast and easy installation with pliers.
- New redesigned BG-6 accomodates a wide variety of MC/AC cables.
- Now available in Dura Copper finish - add DCU to part number.
- Static Load Capacity: 100 Lbs. - Vertical 25 Lbs. - Horizontal



Guide-Rite® Conduit Fasteners



Static Load Capacity





Clearance Hole For ¹/₄" Bolt

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UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
781011 18350	BG-6*	3/8"	100
781011 18355	BG-8-12	1/2", 3/4"	100
781011 18360	BG-16	1"	100
781011 18365	BG-20	1 ¹ /4"	100
781011 18370	BG-24	1 ¹ /2"	100
781011 18375	BG-32	2"	100
Patent #4958792			



1/4"-20 Thread Impression

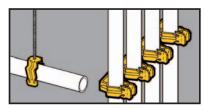


UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
781011 18380	BG-6-4T*	3/8"	100
781011 18385	BG-8-12-4T	1/2", 3/4"	100
781011 18390	BG-16-4T	1"	100
781011 18395	BG-20-4T	11/4"	100
781011 18400	BG-24-4T	1 ¹ /2"	100
781011 18405	BG-32-4T	2"	100

Patent #4958792



^{*} BG-6 and BG-6-4T will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit



Push-Type Conduit Fasteners

- Conduit easily snaps into push type fastener for secure support.
- Available with clearance hole for ¹/₄" bolt or ¹/₄"-20 thread impression.
- Ultimate Static Load Capacity:

25 Lbs. Vertical 15 Lbs. Horizontal



Clearance Hole For 1/4" Bolt

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19200	BP-8	1/2" EMT	100
781011 19205	BP-12	³ /4" EMT ¹ /2" IMC, Rigid	100
781011 19210	BP-16	1" EMT ³ /4" IMC, Rigid	100

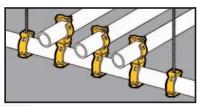


1/4"-20 Thread Impression

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19215	BP-8-4T	1/2" EMT	100
781011 19220	BP-12-4T	³ /4" EMT ¹ /2" IMC, Rigid	100
781011 19225	BP-16-4T	1" EMT ³ /4" IMC, Rigid	100



- For use with ³/₈" to 2" conduit.
- Guide-Rite[®] Fastener provides for fast and easy installation with pliers.
- Note: Total load of trapeze must not exceed 100 Lbs.





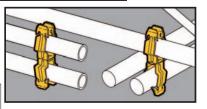
Guide-Rite® Conduit Trapeze Fasteners



UPC/Part Number	Catalog Number	Conduit To 1" Trapeze	Box Qty.
781011 18615 781011 18620 781011 18595 781011 18600 781011 18605 781011 18610	BG-16-G-6* BG-16-G-8-12 BG-16-G-16 BG-16-G-20 BG-16-G-24 BG-16-G-32	3/8" 1/2" or 3/4" 1" 11/4" 11/2" 2"	100 100 100 50 50
D-11 #4050700	DG-10-G-02	_	50

Patent #4958792

- * BG-6 will accept the following range Ø.420 Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit
- An ideal spacer between conduits.
- No installation tools required.
- Ultimate Static Load Capacity: 25 Lbs.



Push-Type Conduit To Conduit Fasteners

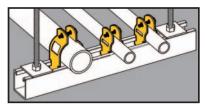
UPC/Part	Catalog	Conduit To	Box
Number	Number	1" Trapeze	Qty.
781011 19303 781011 19295 781011 19300 781011 19395 781011 19400 781011 19495	BP-8-P-8 BP-8-P-12 BP-8-P-16 BP-12-P-12 BP-12-P-16 BP-16-P-16	1/2" to 1/2" 1/2" to 3/4" 1/2" to 1" 3/4" to 3/4" 3/4" to 1" 1" to 1"	100 100 100 100 100

Note: For rigid conduit with BP series, use next size larger fastener (1/2" Rigid use BP-12).



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Conduit & Cable



Break-Apart Conduit Clamps



Patented Multi-Grip

- Convenient break-apart clamp features retained bolt and 5/16" thread impression to eliminate handling of nuts and bolts.
- Finish: Zinc-Plated.
- Static Load Capacity: 200 lbs.

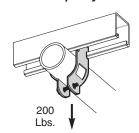
Static Load Capacity



BPC-8 thru BPC-32



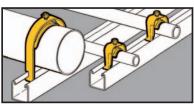
BPC-40 thru BPC-64



UPC/Part Number	Catalog Number	Rigid or EMT Conduit Size	Box Qty.
781011 01676	BPC-8	1/2"	100
781011 01677	BPC-12	3/4"	100
781011 01680	BPC-16	1"	100
781011 01679	BPC-20	11/4"	50
781011 01678	BPC-24	11/2"	50
781011 01681	BPC-32	2"	50
781011 03977	BPC-40	21/2"	50
781011 03978	BPC-48	3"	50
781011 03979	BPC-56	31/2"	25
781011 03981	BPC-64	4"	25
Patent #4044428			



- Attaches conduit, flexible conduit or cables to standard strut channels.
- B1506S designed to secure and support MC/AC cables.
- Unique one-piece design eliminates handling of hardware and allows easy installation and removal in side-by-side conduit runs.
- Anti-rock feature prevents clamp from disengaging during installation.
- · Finish: Zinc-Plated



Conduit Strut Clamps



Patent #5022614

B1508 thru B1520



B1506S thru B1524S



B1532S thru B1564S



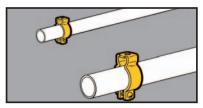
UPC/Part Number	Catalog Number				Range Max	Static Load Cap.	Box Qty.	
781011 63150	B1508	1/2"				200 Lbs.	100	
781011 63154	B1512	3/4"	1/2"			200 Lbs.	100	
781011 63157	B1516	1"	3/4"			300 Lbs.	100	
781011 63160	B1520	1 ¹ /4"	1"			300 Lbs.	100	
Note: Clamps without saddle are not recommended for flexible conduit or cable.								

2/-11-

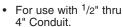
782051 44495	B1506S*	3/8"*		.400	.630	200 Lbs.	100
781011 63164	B1508S	1/2"		.250	.680	200 Lbs.	100
781011 63168	B1512S	3/4"	1/2"	.500	.840	200 Lbs.	100
781011 63171	B1516S	1"	3/4"	.750	1.050	300 Lbs.	100
781011 63177	B1520S	1 ¹ /4"	1"	1.125	1.315	300 Lbs.	100
781011 63182	B1524S	1 ¹ /2"	1 ¹ /4"	1.375	1.660	400 Lbs.	50
781011 63188	B1532S	2"	1 ¹ /2"	1.875	2.200	400 Lbs.	50
781011 63193	B1534S		2"	2.125	2.375	400 Lbs.	25
781011 63199	B1540S	21/2"	21/2"	2.625	2.875	400 Lbs.	25
781011 63205	B1548S	3"	3"	3.250	3.500	400 Lbs.	25
781011 63211	DAFFCC	31/2"	31/2"	3.750	4.000	400 Lbs.	10
	B1556S	31/2	31/2	3.750	4.000	400 LDS.	10

B1506S will accept the following
 AC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4
 MC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4





Conduit Hangers



- Static Load Capacity: 400 lbs.
- Now available in Dura Copper finish - add DCU to part number.
- · Finish: Zinc-Plated



With Retained Bolt And Thread Impression

	UPC/Part Number
	781011 19800
ı	781011 19801
	781011 19802

c(UL)us

Catalog Number
BL1400* BL1410* BL1420*

Trade Size	Condu EMT	uit Size Rigid	Box Qty.
0	1/2"	1/2"	100
1	3/4"	3/4"	100
2	1"	1"	100



With Bolt And Nut



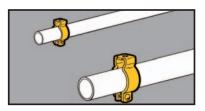
UPC/Part Number	Catalog Number	Trade Size	Condu EMT	uit Size Rigid	Box Qty.
781011 19803	BL1425*	2.5	1 ¹ /4"		100
781011 19804	BL1430*	3	11/2"	11/4"	100
781011 19805	BL1440 [†]	4		1 ¹ /2"	50
781011 19806	BL1450 [†]	5	2"	2"	50
781011 19807	BL1460 [†]	6	21/2"	21/2"	25
781011 19808	BL1470 [†]	7	3"	3"	25
781011 19809	BL1480 [†]	8	31/2"	31/2"	10
781011 19810	BL1490 [†]	9	4"	4"	10

^{* 9/32&}quot; mounting hole. † 11/32" mounting hole.





- For use with ¹/₂" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Material: Type 304 Stainless Steel



Stainless Steel Conduit Hangers



With Retained Bolt And Thread Impression



UPC/Part Number	Catalog Number	Trade Size	Condu EMT	uit Size Rigid	Box Qty.
781011 57490	BL1400-SS4*	0	1/2"	1/2"	25
781011 57497	BL1410-SS4*	1	3/4"	3/4"	25
781011 57506	BL1420-SS4*	2	1"	1"	25



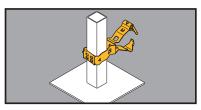
With Bolt And Nut



UPC/Part Number	Catalog Number	Trade Size	Condu EMT	iit Size Rigid	Box Qty.
781011 87485	BL1425-SS4	* 2.5	1 ¹ /4"		25
781011 57517	BL1430-SS4	* 3	1 ¹ /2"	11/4"	25
781011 57525	BL1440-SS4	† 4		11/2"	25
781011 57535	BL1450-SS4	. † 5	2"	2"	10
781011 57546	BL1460-SS4	† 6	21/2"	21/2"	10
781011 87481	BL1470-SS4	† 7	3"	3"	10
781011 87486	BL1480-SS4	† 8	31/2"	31/2"	10
781011 87482	BL1490-SS4	† 9	4"	4"	10

^{* 9/32&}quot; mounting hole. † 11/32" mounting hole.





Guide-Rite® Conduit To Pedestal Support

- Supports conduit from square computer floor pedestals.
- Unique Guide-Rite®
 Fastener provides for fast and easy installation with pliers.
- Static Load Capacity: 25 lbs.



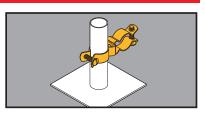


UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
782051 25589	BG-8-12-G6*	3/8"	100
781011 88538	BG-8-12-G812	¹ /2" or ³ /4"	100
781011 18620	BG-16-G812	1"	100
782051 25594	BG-8-12-G20	1 1/4"	50
782051 25595	BG-8-12-G24	1 ¹ /2"	50
782051 25597	BG-8-12-G32	2"	50
Patent #4958792			



^{*} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit

- Supports conduit from 1" O.D. computer floor pedestals.
- Also available in Type 304 Stainless Steel. Contact factory for details.
- Static Load Capacity: 25 lbs.
- · Finish: Zinc-Plated



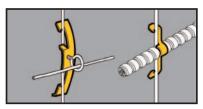
Conduit To Pedestal Support





UPC/Part Number	Catalog Number	Trade Size	Condu Rigid		Box Qty.
782051 25599	BL1410-L1400	0	1/2"	1/2"	50
782051 25601	BL1410-L1410	1	3/4"	3/4"	50
782051 25602	BL1410-L1420	2	1"	1"	50
782051 25603	BL1410-L1425	2.5		1 ¹ /4"	50
782051 25607	BL1410-L1430	3	1 ¹ /4"	1 ¹ /2"	50
782051 25612	BL1410-L1440	4	1 ¹ /2"		25
782051 25614	BL1410-L1450	5	2"	2"	25
782051 25617	BL1410-L1460	6	21/2"	21/2"	10
782051 25618	BL1410-L1470	7	3"	3"	10
782051 25619	BL1410-L1480	8	31/2"	31/2"	5





Rod & Wire Fasteners

- BW2 and BW6 support #10-24 or ¹/4"-20 threaded bridle rings and provide attachment for electrical boxes.
- BW2S & BW6S are provided with one each 1/4"-20 x 3/8" screw and hex nut.
- BW4 supports cables from #12 thru #8 wire.



UPC/Part Number	Catalog Number	Drop Rod/ Wire Size	Flange Thickness	Box Qty.
781011 19700	BW2	#12 wire thru plain or threaded	1/8" - 3/8" d rod	100
782051 40156	BW2S 1/4"	#12 wire thru ' plain or threaded	¹ /8" - ³ /8" d rod	100
781011 95516	BW6	³ /8" plain or threaded rod	³ /8" - ⁷ /16"	100
782051 40157	BW6S	³ /8" plain or threaded rod	³ /8" - ⁷ / ₁₆ "	100
		S	Static Load	$\sqrt{}$







Number	Number	Description	Qty.
781011 19705	BW4	Multi-size Wire Fastener	100





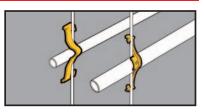
MC/AC Cable Size	#12 Wire	#10 Wire	#8 & #9 Wire
14/2 Cable	BW4	BW4	BW4
14/3 Cable	BW4	BW4	BW4
12/2 Cable	BW4	BW4	BW4
12/3 Cable	BW4	BW-8	BW-8

BW4 is designed for positioning only. No load rating.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.



- See BX8 and BX18 for a better solution.
- Attaches conduit to wire rods or flanges.
- Can be used for flexible metallic tubing or armored cable.



Rod & Wire Fasteners







UPC/Part Number	Catalog Number	Box Qty.
781011 19710	BW-8	100
781011 19715	BW-12	100
781011 19720	BW-16	100
781011 19725	BW-20	100

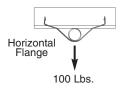
Conduit Size	#10 & #12 Wire	#8 & #9 Wire	³ / ₁₆ " & ¹ / ₄ " Rod	1/8" to ¹ /4" Flange	⁵ / ₁₆ " to ³ / ₈ " Flange	⁷ / ₁₆ " to ¹ / ₂ " Flange
¹ /2" EMT	BW-8	BW-8	BW-8	BW-8	BW-12	BW-12
1/2" Rigid	BW-8	BW-12	BW-12	BW-12	BW-12	BW-16
3/4" EMT	BW-12	BW-12	BW-12	BW-12	BW-16	BW-16
³ /4" Rigid	BW-12	BW-12	BW-16	BW-16	BW-20*	BW-20*
1" EMT		BW-16	BW-16	BW-16	BW-20*	BW-20*
1" Rigid				BW-20*	BW-20*	BW-20*
1 ¹ /4" EMT		BW-20	BW-20	BW-20		-
	*Note: For horizontal applications only.					

Static Load Capacity



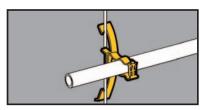






Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.





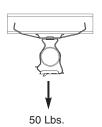
Guide-Rite® Conduit To Rod Fasteners

- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru ⁷/16" flanges or ³/8" plain or threaded rod.

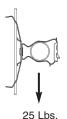




UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Qty.
781011 18540	BG-8-12-W2	1/2", 3/4"	100
781011 18640	BG-16-W2	1"	100
781011 95519	BG-8-12-W6	1/2", 3/4"	100
781011 95520	BG-16-W6	1"	100
Patent #4958792			



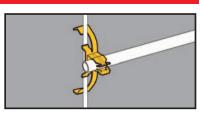
Static Load Capacity



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.

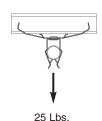


- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru ⁷/16" flanges or ³/8" plain or threaded rod.

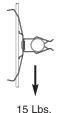


Push-Type Conduit To Rod Fasteners

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19325	BP-8-W2	1/2" EMT	100
781011 19420	BP-12-W2	³ / ₄ " EMT ¹ / ₂ " IMC, Rigid	100
781011 19505	BP-16-W2	1" EMT or ³ /4" IMC, Rigid	100
781011 95521	BP-8-W6	¹ /2" EMT	100
781011 95522	BP-12-W6	³ / ₄ " EMT ¹ / ₂ " IMC, Rigid	100
781011 95523	BP-16-W6	1" EMT or ³ /4" IMC, Rigid	100

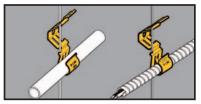


Ultimate Static Load Capacity



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.





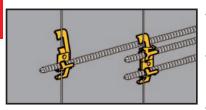
Flex-Rite® Cable/Conduit To Wire **Fasteners**





- Can be used in place of batwings.
- Will not bend or deform hanger wire.
- Attaches to #12 #8 wire and 1/4" plain rod.
- Accommodates MC. AC. 3/8" FMC or 1/2" EMT.
- Cable can be installed before or after attachment to wire.
- Static Load Capacity: BX-8 - 20 Lbs. BX-18 - 30 Lbs.

Number	Number	Size	Qty.
781011 01402 781011 02943	BX-8 BX-18	.375" to .706" O.D. .706" to 1.380" O.D.	100 100
781011 01685	BX-8B	Bulk Packed in Fiber Barrels	4000



Cable To Rod **Fasteners**







Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8 FMC.

- W2 series attaches to ¹/8" thru ³/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to ³/8" thru ⁷/16" flanges or 3/8" plain or threaded rod.

BX4M-W2

UPC/Part Number	Catalog Number	Description	Box Qty.
781011 01219	BX4-W2	Single Runs	100
781011 01189	BX4M-W2	Double Runs	100
781011 95517	BX4-W6	Single Runs	100
781011 95518	BX4M-W6	Double Runs	100

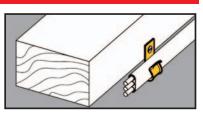
Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.



Conduit & Ca

Conduit & Cable

- Attaches Type NM cable to most structures.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- May be used with other B-Line fasteners for attachment to acoustical tees, beams, drop wires, etc.



Cable Fasteners





UPC/Part Number Catalog Number

Description

Box Qty.

781011 03553

BRC3

Type NM
Cable Fastener

100

- Supports cable sizes 14/2 and 12/2 with ground wire.
- W2 series supports cable from #12 wire thru ¹/₄" plain or threaded rod.
- W6 series supports cable from ³/8" plain or threaded rod.



Cable Fasteners





UPC/Part Number Catalog Number

Description

Box Qty.

781011 03547

BRC3-W2

Type NM Cable To Wire Fastener

100

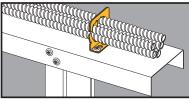
100

781011 95524

BRC3-W6

Type NM Cable

To Wire Fastener



Carrier for MC/AC Cable







c(UL)us



BRC52

- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Compatible with new BCH-HBA for multi-tier assemblies.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated



BRC53

UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
782051 43593	BRC51	.430" to .560" Up to 4 Runs	50
782051 43594	BRC52	.430" to .560" Up to 9 Runs	50
782051 43595	BRC53	.560" to .690" Up to 7 Runs	50



Conduit & Cable

- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- W2 Series attaches to ¹/8" thru ³/8" flanges or #12 thru ¹/4" plain or threaded rod.
- W6 Series attaches to 3/8" thru ⁷/16" flanges or ³/8" plain or threaded rod.
- Load Capacity: 50 lbs.
- · Finish: Zinc Plated



Multi-Run Cable Carrier for MC/AC Cable

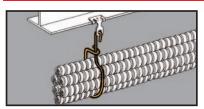




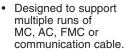
UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
782051 44075	BRC51-W2	.430" to .560" Up to 4 Runs	25
782051 44076	BRC52-W2	.430" to .560" Up to 9 Runs	25
782051 44077	BRC53-W2	.560" to .690" Up to 7 Runs	25
782051 44078	BRC51-W6	.430" to .560" Up to 4 Runs	25
782051 44079	BRC52-W6	.430" to .560" Up to 9 Runs	25
782051 44080	BRC53-W6	.560" to .690" Up to 7 Runs	25

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.

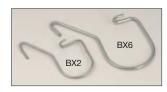




Flexible Cable Support

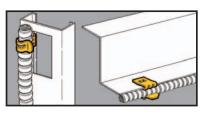


- Static Load Capacity: BX2 - 50 lbs. BX6 & BX24 - 75 Lbs.
- · Finish: Zinc Plated





Number	Number	Description	Qty.
782051 04934	BX2	Usable Area = 2 sq. in.	100
781011 19765	BX6	Usable Area = 4 sq. in.	100
781011 19766	BX24	Usable Area = 13 sq. in.	100



Flexible Conduit/ Cable Fasteners

- Fastens flexible conduit and other small cables to beam flanges, bar joists or metal studs.
- Cable O.D. range of 0.42" to 0.70".
- Maximum flange thickness ⁵/₃₂".





UPC/Part	Catalog	Description	Box
Number	Number		Qty.

781011 19770

BX9

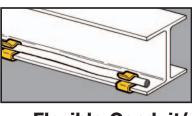
Flexible Conduit

Fastener

100



- Secures cable along flanges ¹/₁₆" to ³/₄" thick.
- The BFA flange adapters attach BXS series to thicker flanges.
- BX_-67 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX_-1011 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX_-1214 accepts 10/3, romex with ground.
- · Finish: Zinc Plated



Flexible Conduit/ Cable Fasteners

BFA Series (For Use with BXS Series Only)





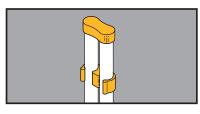
BXL Series



BXS Series	2	5
0000		

UPC/Part Catalog Cable Box Flange Number Number Thickness Diameter Qty. 781011 19973 **BXS-67** 1/16" - 5/32" .218 to .281 100 781011 19974 **BXS-89** 1/16" - 5/32" .290 to .375 100 781011 19975 **BXS-1011** 1/16" - 5/32" .375 to .437 100 **BXS-1214** 1/16" - 5/32" 781011 19976 .444 to .560 100 1/16" - 5/32" 781011 19977 **BXS-1519** .500 to .718 100 781011 19978 **BXS-2024** 1/16" - 5/32" .748 to .945 100 **BXS-2530** 781011 19979 1/16" - 5/32" .968 to 1.250 100 781011 19980 **BXM-67** 5/32" - 9/32" .218 to .281 100 781011 19981 **BXM-89** 5/32" - 9/32" .290 to .375 100 5/32" - 9/32" 781011 19982 **BXM-1011** .375 to .437 100 5/32" - 9/32" 781011 19983 **BXM-1214** .444 to .560 100 5/32" - 9/32" 781011 19984 BXM-1519 .500 to .718 100 5/32" - 9/32" 781011 19985 BXM-2024 .748 to .945 100 **BXM-2530** 5/32" - 9/32" 781011 19986 .968 to 1.250 100 781011 19987 **BXL-67** 5/16" - 1/2" .218 to .281 100 781011 19988 **BXL-89** 5/16" - 1/2" .290 to .375 100 781011 19989 **BXL-1011** 5/16" - 1/2" .375 to .437 100 **BXL-1214** 5/16" - 1/2" 781011 19990 .444 to .560 100 781011 19991 **BXL-1519** 5/16" - 1/2" .500 to .718 100 5/16" - 1/2" 781011 19992 **BXL-2024** .748 to .945 100 5/16" - 1/2" 781011 19993 BXL-2530 .968 to 1.250 100 781011 19955 **BFA-1215** 1/2" - 5/8" 100 5/8" - 3/4" 781011 19956 **BFA-1520** 100





Conduit Quick Caps & Spacers



BCS & BES Conduit Spacers



BCS-C & BES-C Conduit Caps

- Quick caps and spacers eliminate the time consuming method of duct taping conduit stubs.
- Quick spacers are designed to separate and secure conduit during concrete pours.
- Quick caps maintain spacing and keep conduit free from dirt and debris.
- Quick caps and spacers properly space conduit for any 4" square box.
- New EMT sizes now available.

- 1			
UPC/Part	Catalog	Conduit Size	Box
Number	Number		Qty.
782051 22356	BCS-8	¹ /2" Rigid Conduit	50
782051 40057	BES-8	¹ /2" EMT Conduit	50
782051 22357	BCS-12	³ /4" Rigid Conduit	50
782051 40058	BES-12	³ /4" EMT Conduit	50
782051 22358	BCS-16	1" Rigid Conduit	50
782051 40059	BES-16	1" EMT Conduit	50
782051 22359	BCS-8C	¹ /2" Rigid Conduit	50
782051 40060	BES-8C	¹ /2" EMT Conduit	50
782051 22361	BCS-12C	³ /4" Rigid Conduit	50
782051 40061	BES-12C	³ /4" EMT Conduit	50
782051 22362 782051 40062 Patent #5896892	BCS-16C BES-16C	1" Rigid Conduit 1" EMT Conduit	50 50
1 atent #3030032			





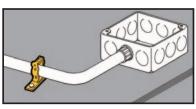


Conduit & Cable

- Eliminates the need for offset bends when used with 1¹/2" deep boxes.
- Attaches conduit to concrete, steel or wood with nails.
- May be attached after conduit positioning.







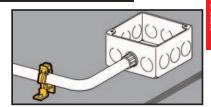
Conduit Spacer Brackets



BP

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 18495 Patent #4958792	BG-8-12-D3	¹ /2" or ³ /4"	100
781011 19265	BP-8-D3	¹ /2" EMT	100
781011 19365	BP-12-D3	³ /4" EMT or ¹ /2" IMC, Rigid	100

- Eliminates the need for offset bends when used with 2¹/8" deep boxes.
- Provides secure support between conduit and deck.
- D4 Series is easily installed with screw gun or powder actuated tools.
- Allows for complete conduit layout prior to anchoring.



Conduit Spacer Brackets



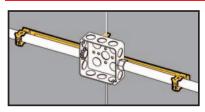




ΒP

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 18500 Patent #4958792	BG-8-12-D4	¹ /2" or ³ /4"	100
781011 19270	BP-8-D4	1/2" EMT	100
781011 19370	BP-12-D4	³ /4" EMT or ¹ /2" IMC, Rigid	100
781011 19460	BP-16-D4	1" EMT or ³ /4" IMC, Rigid	100





Guide-Rite® .侧.. Conduit & Box Support Fasteners

 See pages Ruff-IN brochure for pre-fab box assemblies.

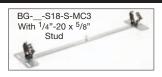
- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.





UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
781011 03575	BG6-S18 *	3/8"	25
781011 03573	BG812-S18	¹ /2" or ³ /4"	25
781011 03574	BG16-S18	1"	25
With Multiple Conduit	Plate		
782051 52812	BG6-S18-MC3 *	3/8"	25
782051 52900	BG812-S18-MC3	1/2" or 3/4"	25
782051 52901	BG16-S18-MC3	1"	25
Patent #4958792			





With Stud

782051 52902	BG6-S18S *	3/8"	25
781011 04979	BG812-S18S	1/2" & 3/4"	25
782051 52903	BG16-S18S	1"	25

With Stud & Multiple Conduit Plate

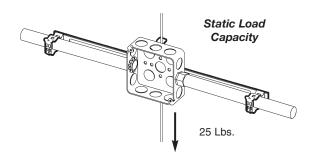
782051 52904	BG6-S18S-MC3 *	3/8"	25
782051 52905	BG812-S18S-MC3	1/2" & 3/4"	25
782051 52906	BG16-S18S-MC3	1"	25





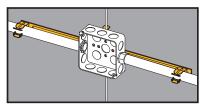


UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
W2 Series for #12 th	nru ¹ /4" Rod **		
781011 03578	BG6-S18-W2 *	3/8"	25
781011 03576	BG812-S18-W2	1/2" & 3/4"	25
781011 03577	BG16-S18-W2	1"	25
W2 Series for #12 th	nru ¹ /4" Rod & Multiple Con	duit Plate **	
782051 52855	BG6-S18-W2-MC3 *	3/8"	25
782051 52739	BG812-S18-W2-MC3	1/2" & 3/4"	25
782051 52862	BG16-S18-W2-MC3	1"	25
W6 Series for ³ /8" P	Plain or Threaded Rod **		
781011 99581	BG6-S18-W6 *	3/8"	25
781011 99582	BG812-S18-W6	1/2" & 3/4"	25
781011 99580	BG16-S18-W6	1"	25
W6 Series for ³ /8" P	Plain or Threaded Rod & Mu	Itiple Conduit Plate	**
782051 52856	BG6-S18-W6-MC3 *	3/8"	25
782051 52860	BG812-S18-W6-MC3	1/2" & 3/4"	25
782051 52864	BG16-S18-W6-MC3	1"	25



- * BG-6 will accept the following range \varnothing .420 \varnothing .675: 14/2 thru 10/4 MC/AC cable and 5 /16 or 3 /8 flexible conduit
- ** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.

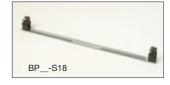




Push-Type Conduit & Box Support Fasteners

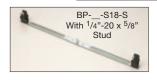
 See pages Ruff-IN brochure for pre-fab box assemblies.

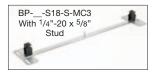
- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.





UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
782051 23604	BP8-S18	¹ /2" EMT	25
782051 23605	BP12-S18	³ / ₄ " EMT, ¹ / ₂ " Rigid	d 25
782051 23606	BP16-S18	1" EMT, ³ /4" Rigid	25
With Multiple Condu	uit Plate		
782051 52907	BP8-S18-MC3	1/2" EMT	25
782051 52908	BP12-S18-MC3	3/4" EMT, 1/2" Rigid	d 25
782051 52909	BP16-S18-MC3	1" EMT, 3/4" Rigid	25





With Stud

782051 23631	BP8-S18S	1/2" EMT	25
782051 23633	BP12-S18S	³ /4" EMT, ¹ /2" Rigid	25
782051 23634	BP16-S18S	1" EMT, 3/4" Rigid	25

With Stud & Multiple Conduit Plate

782051 52913	BP8-S18S-MC3	¹ /2" EMT	25
782051 52914	BP12-S18S-MC3	³ / ₄ " EMT, ¹ / ₂ " Rigid	25
782051 52915	BP16-S18S-MC3	1" EMT, 3/4" Rigid	25



25

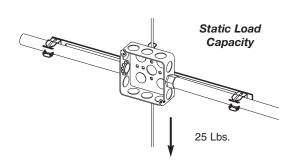
Conduit & Cable



782051 52854



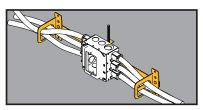
	UPC/Part Number	Catalog Number	Conduit Size	Box Qty.	
W2 Series for #12 thru ¹ / ₄ " Rod **					
	782051 23615	BP8-S18-W2	1/2" EMT	25	
	782051 23619	BP12-S18-W2	³ / ₄ " EMT, ¹ / ₂ " Rigid	25	
	782051 23627	BP16-S18-W2	1" EMT, ³ /4" Rigid	25	
	W2 Series for #12	thru ¹ /4" Rod & Multiple C	Conduit Plate **		
	782051 52847	BP8-S18-W2-MC3	1/2" EMT	25	
	782051 52848	BP12-S18-W2-MC3	3/4" EMT, 1/2" Rigid	25	
	782051 52849	BP16-S18-W2-MC3	1" EMT, ³ /4" Rigid	25	
	WG Corion for 3/0"	Plain or Threaded Rod **			
			1, ,		
	782051 23628	BP8-S18-W6	1/2" EMT	25	
	782051 23629	BP12-S18-W6	³ / ₄ " EMT, ¹ / ₂ " Rigid	25	
	782051 23630	BP16-S18-W6	1" EMT, ³ /4" Rigid	25	
	W6 Series for ³ /8"	Plain or Threaded Rod &	Multiple Conduit Plate *	*	
	782051 52850	BP8-S18-W6-MC3	1/2" EMT	25	
	782051 52851	BP12-S18-W6-MC3	3/4" EMT, 1/2" Rigid	25	



BP16-S18-W6-MC3 1" EMT, 3/4" Rigid

** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.





Multi-Run Cable Carrier & Box Support Fasteners

- Riveted assembly provides support for electrical boxes and cable runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Cable retension tab is open for easy loading and contains the cables when bent in place.
- See Ruff-IN brochure for pre-fab box assemblies.





UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
782051 52916	BRC51-S18	Up to 4 runs .430"560"	25
782051 52918	BRC53-S18	Up to 7 runs .560"690"	25



Number	Number	Conduit Size	Qty.
With Stud			
782051 52919	BRC51-S18S	Up to 4 runs .430"560"	25
782051 52921	BRC53-S18S	Up to 7 runs .560"690"	25



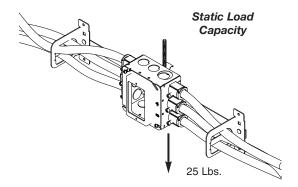




UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
W2 Series for #12 to	hru ¹ /4" Rod **		
782051 52865	BRC51-S18-W2	Up to 4 runs .430"560"	25
782051 52869	BRC53-S18-W2	Up to 7 runs .560"690"	25

W6 Series	for 3/0"	Dlain or	Throadod	Dod **
vvo series	IOF Y/X	Plain or	i nreaceo	BOO

782051 52866	BRC51-S18-W6	Up to 4 runs .430"560"	25
782051 52870	BRC53-S18-W6	Up to 7 runs .560"690"	25



** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 220-221 for additional support methods.







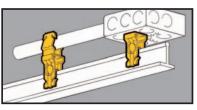








- Attaches to top of acoustical T-Bar with 1/4"-20 screw.
- Has ¹/4"-20 thread impression for attachment to box or conduit fastener.
- Warning: Do not use for hanging acoustical tee.



T-Bar Support Fasteners



c(VL) us

UPC/Part Number Catalog Number

Description

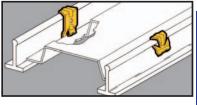
Box Qty.

781011 18090

BA14

T-Bar Support Clip 100

- Gives positive support for troffers and lay-in fixtures.
- Complies with NEC Article 410.16(C) for fixtures supported by suspended ceilings.
- Fits rectangular or round head T-Bars.
- Commonly known as "Hurricane Clip".



Troffer Fasteners





UPC/Part Number Catalog Number

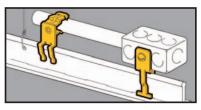
Description

Box Qty.

781011 18095

BA15

For Straight Lip or Upturned Lip Fixtures 100



Side Mount T-Bar Fasteners

BA5-4T

- A positive method for supporting vertical boxes, conduit or cable above T-Bar.
- Allows conduit to clear drop wires.
- Warning: Do not use for hanging acoustical tee.

UPC/Part Number Catalog Number

Description

Box Qty.

781011 18120

BA5-4T

With ¹/₄"-20 Thread Impression 100

BG



BP Series

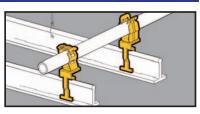


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 18410	BG-6-A5*	3/8"	100
781011 18465	BG-8-12-A5	1/2", 3/4"	100
781011 18545	BG-16-A5	1"	100
Patent #4958792			
781011 19235	BP-8-A5	1/2" EMT	100
781011 19335	BP-12-A5	3/4" EMT	100
		¹ /2" IMC, Rigid	
781011 19430	BP-16-A5	1" EMT ³ /4" IMC, Rigid	100

^{*} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit



- A positive method for supporting horizontal boxes or conduit above T-Bar.
- Allows conduit to clear drop wires.
- Warning: Do not use for hanging acoustical tee.



Top Mount T-Bar Fasteners



UPC/Part Number Catalog Number

Description

Box Qty.

781011 18125

BA6-4T

With 1/4"-20 100 Thread Impression

BG Series

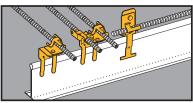




BP Series

UPC/Part	Catalog	Conduit Size	Box
Number	Number		Qty.
781011 88540 781011 18470 781011 18550 Patent #4958792	BG-6-A6* BG-8-12-A6 BG-16-A6	3/8" 1/2", 3/4" 1"	100 100 100
781011 19240	BP-8-A6	¹ /2" EMT	100
781011 19340	BP-12-A6	³ /4" EMT	
781011 19435	BP-16-A6	¹ /2" IMC, Rigid 1" EMT ³ /4" IMC, Rigid	100

^{*} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit



Top Mount T-Bar Fasteners

BX4-A6

A positive method for supporting cable or flexible conduit above T-Bar.

Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8" FMC.







BX4M-A6

UPC/Part Number

Catalog Number

Description

Box Qty.

781011 01220

BX4-A6

Single Runs

100

781011 01216

BX4M-A6

Double Runs 100

Note: Fasteners will rotate 360°.

BX4-A5





BX4M-A5

UPC/Part Number

Catalog Number

Description

Box Qty.

781011 01187

BX4-A5

Single Runs

100

781011 01212

Double Runs

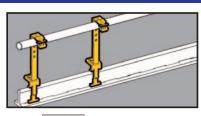
BX4M-A5

100

Note: Fasteners will rotate 360°.



- Supports conduit and electrical boxes above T-Bar.
- Height adjusts from 4¹/₄" to 7¹/₄".
- · Conduit fasteners can be attached at 3/4" increments.
- BX4M-A28 supports cable or FMC above T-Bar.







Support Fasteners

BX4M-A28

UPC/Part	
Number	

Catalog Number

Description

Qty.

781011 18115

BA28

BA28

1/2" Holes Allow 50 for Adjustment Between 41/4" and 71/4" ar 3/4" increments

781011 01211

BX4M-A28

Double Runs MC, AC, or FMC

25

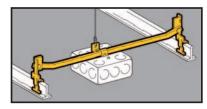


BP-12-A28

Th
3/

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19230	BP-8-A28	1/2" EMT	100
781011 19330	BP-12-A28	³ / ₄ " EMT ¹ / ₂ " IMC, Rigid	100
781011 19425	BP-16-A28	1" EMT ³ /4" IMC, Rigid	100

Note: Adjustable BP Conduit Fastener is attached with screw in 7¹/₄" top hole position.



Electrical Box T-Bar Fasteners





- See BA50 for a stronger, more cost-effective solution.
- Supports octagonal or square boxes.
- Allows for flush mounting or ³/₄" offset for plaster ring.
- One BB27 box mounting clip with screw included with each hanger.
- · Load Capacity: 20 lbs.
- For additional support, attach dropwire to BB27 box mounting clip.
- Warning: Do not use for hanging acoustical tee.

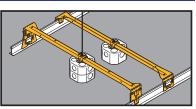
UPC/Part Number	Catalog Number	Description	Box Qty.
781011 18080	BA12	Box Hanger 24" Span	50
781011 18082	BA12-12	Box Hanger 12" Span	50
781011 18085	BA12-20	Box Hanger 20" Span	50
781011 18087	BA12-30	Box Hanger 30" Span	50



UPC/Part Number	Catalog Number	Description	Box Qty.
781011 18170	BB27	Box Mounting Clip (with Screw)	50
781011 01673	SRHMS ¹ /4x ³ /8	1/4"-20 x ³ /8" Slotted Round Head Machine Screw	50



- Supports octagonal or square boxes on 24" span.
- Bendable ends mount 1¹/₂" or 2¹/₈" deep boxes without tools.
- Self-centering feature positions box on center.
- Ultimate Static Load Capacity:
 50 Lbs. (without dedicated dropwire)
- Static Load Capacity:
 70 Lbs. (with dedicated dropwire)
 35 Lbs. Canada
- · Finish: Pre-galvanized
- See Ruff-IN brochure for pre-fab box assemblies.



Heavy Duty Electrical Box Hanger











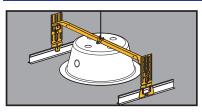
BA50E



UPC/Part Number	Catalog Number	Description	Box Qty.
781011 96490	BA50	Box Hanger	25
782051 35905	BA50CAN*	Box Hanger	25
781011 96491	BA50D	Box Hanger for box with 1 ¹ /2" extensi	25 on
782051 35906	BA50DCAN*	Box Hanger for box with 11/2" extensi	25 on
782051 36570	BA50C4T	Box Mounting Clip with Hardware	25
782051 36571	BA50C3T*	Box Mounting Clip with Hardware	25
781011 96489	BA50E	Extender Brackets with Hardware	10 pair

^{*} Canada Only





- Adjustable box support for suspended ceilings.
- · Accomodates heights from 1¹/2" to 8³/4".
- Integral ruler enables height adjustments without measuring.

Adjustable Box Support



Ideal for installation of speaker cases, emergency light fixtures, etc. in suspended ceilings.

Static Load Capacity: 25 Lbs. without dedicated dropwire 70 Lbs. with dedicated dropwire 35 Lbs. (Canada) with dedicated dropwire

See Ruff-IN brochure for pre-fab box assemblies.

c(UL)us

UPC/Part Number

Catalog Number

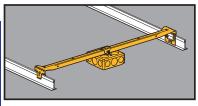
Description

Qty.

782051 18460

BA50A

Adjustable Box Hanger for T-Bar 10



Electrical Box

- Pre-assembled T-Bar fasteners speed installation.
- Boxes have 1/2" and 3/4" knockouts.
- Loading not to exceed 50 lbs. in U.S.A. without independent support. 35 Lbs. in Canada
- 24" span





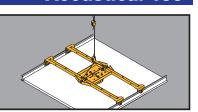
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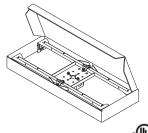
UPC/Part Number	Catalog Number	Description	Box Qty.
782051 24855	BA50-OB-24	1 ¹ /2" Deep Box to T-Bar Fastener	10
782051 24856	BA50-OB-34	2 ¹ /8" Deep Box to T-Bar Fastener	10
782051 24857	BA50-SB-24	1 ¹ / ₂ " Deep Box to T-Bar Fastener	10



- Pre-assembled fan/ fixture hanger installs on T-Bar in less than 30 seconds.
- Positions and secures fans and fixtures in suspended ceilings.
- Includes Kwik-Wire[™]
 cable and clamps which
 attach to mounting clips
 for easy installation.
- Recommended for use in seismic areas.
- UL Listed for fan support up to 70 lbs. or fixture support up to 90 lbs.
 35 Lbs. Canada
- Finish: Pre-galvanized



RediMount[™] Fan Hanger



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UPC/Part Number Catalog Number

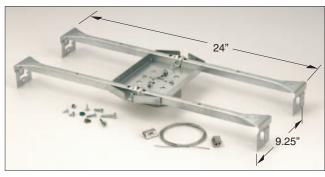
Description

Box Qty.

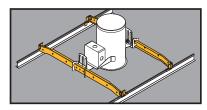
781011 96492

BA50F

Fan/Fixture Hanger Includes 4" x 1¹/₂" deep Octagon Box 1

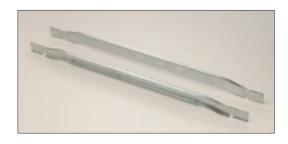






QuikFix[™] Fastening System

- New QuikFix[™] Fastening System mounts spec grade downlights 50% faster than "wire bound" installation methods.
- QuikFix[™] System is pre-sized for 24" spacing.
- · No tools required.
- Recommended for use in seismic areas.
- UL listed for fixture support up to 50 lbs.





UPC/Part Number Catalog Number

Description

Box Qty.

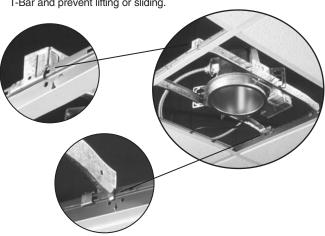
782051 99873

BA40

Fixture Bar

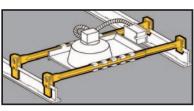
20 pair

 Innovative design features offset bar hangers with integral locking tabs that secure downlights to T-Bar and prevent lifting or sliding. Patent # 6286265

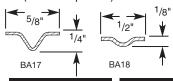




- Adjustable span from 20" to 30".
- Fits horizontal and vertical flanges.
- Fixture position is adjustable.
- No center clips or tools required.
- One set completes one fixture installation (four bars per set).



Light Fixture T-Bar Fasteners c(UL)us





UPC/Part Number

Catalog Number "High Hat" **Fixtures**

Box Qty.

781011 18100

BA17 (Wide Bar)

CAPRI¹ R-9X, R-10C CAPR¹ R-10X CAPR¹ PR-751CX 10 sets HALO^{®2} H7, HALO^{®2} H17 JUNO^{®3} AP, APT JUNO^{®3} IC, ICT, J, SC, TC THOMAS^{®4} RI-IC

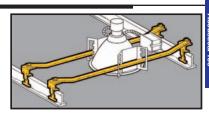
781011 18105

BA18 (Narrow Bar)

CAPRI1 HSG LIGHTOLIER®5 711

10 sets

- Fixture position is adjustable within the span of the hanger.
- Fixed span of 24 inches for T-Bar applications.
- Requires only a screwdriver to install.
- One set completes one fixture installation (four bars per set).







UPC/Part Number

Catalog Number "High Hat" **Fixtures**

Box Qty.

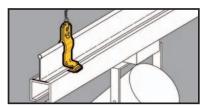
781011 18110

BA20

Fits LIGHTOLIER®5 10 CALCULITE®5 Series sets

Fixtures

1. CAPRI is a mark used by Thomas Industries, Inc., Louisville, KY.
2. HALO® is the registered trademark of Cooper Industries, Elk Grove, IL.
3. JUNO® is the registered trademark of JUNO Lighting, Inc., Morton Grove, IL.
4. THOMAS® is the registered trademark of Thomas Industries, Inc., Louisville, KY.
5. LIGHTOLIER® and CALCULITE® are the registered trademarks of Lightolier, Inc., Secaucus, NJ.



Suspension Fasteners

BA1



BA1-T



 Allows for independent suspension of fixtures.

- Fits most acoustical T-Bars.
- BA-4-WN wing nut included with all ¹/4"-20 suspension hangers.
- Static Load Capacity:

65 Lbs.

BA1-T-BN



UPC/Part Number	Catalog Number	T-Bar Size	Stud Size	Box Qty.
781011 18065	BA1	15/ ₁₆ "	¹ / ₄ "-20 x ⁵ / ₈ "	100
781011 18070 781011 18075	BA1-24 BA1-32	¹⁵ / ₁₆ " ¹⁵ / ₁₆ "	¹ / ₄ "-20 x 1 ¹ / ₂ " ¹ / ₄ "-20 x 2"	100 100
781011 02891	BA1-T	¹⁵ /16"	#8-32 x ⁵ /8" with Pal Nut	100
781011 02897	BA1-T-BN	¹⁵ /16" W	#8-32 x ⁵ /8" ith with Brass N	100 ut

BA1-9



BA1-95

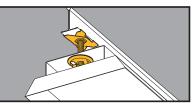


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116	

UPC/Part Number	Catalog Number	T-Bar Size	Stud Size	Box Qty.
782051 25585	BA1-9	9/16"	¹ / ₄ "-20 x ⁵ / ₈ "	100
782051 25587	BA1-95	⁹ /16" & 15/ ₁₆ "	¹ /4"-20 x ⁵ /8"	100



- Supports electrical fixtures from standard 15/16" T-Bars.
- BA-4-WN wing nut included.
- 1/4"-20 stud available in varying lengths.
- Static Load Capacity: 50 Lbs.



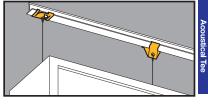
T-Bar Scissor Fasteners





UPC/Part Number	Catalog Number	Stud Length	Box Qty.
781011 04258	BAX-4-16	5/8"	100
781011 04262	BAX-4-16-24	1 ¹ /2"	100
781011 04263	BAX-4-16-32	2"	100
781011 04264	BAX-4-16-48	3"	100

- BA-4-16-H supports signs from 15/16" T-Bar.
- BA-4-16-H1 supports signs from 9/16" or 15/16" T-Bar.
- Static Load Capacity: 40 Lbs.



Sign Hangers



BA-4-16-H



BA-4-16-H1



UPC/Part	
Number	

Catalog Number

Stud Length



781011 18040

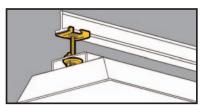
BA-4-16-H

Sign Hanger with White Finish 100

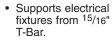
781011 04449

BA-4-16-H1

Sign Hanger 100 with Zinc Plated Finish



¹⁵/₁₆" Twist Fasteners



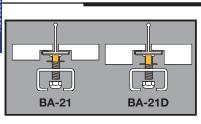
- 1/4"-20 stud available in varying lengths.
- Includes BA-4-WN wing nut with impression.
- Static Load Capacity: BA4-16 Series = 50 lbs. BA4-WN Series = 100 lbs.





BA-4-WN

UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
781011 18020	BA-4-16	Black	5/8"	100
781011 18055	BA-4-16-W	White	5/8"	100
781011 18025	BA-4-16-24	White	11/2"	100
781011 18030	BA-4-16-32	White	2"	100
781011 18035	BA-4-16-48	White	3"	100
781011 18060	BA-4-WN	Black		100



- T-Bar spacer provides flush mounting surface for tegular tile installations.
- Spacer must be used in combination with B-Line's BA-4-16 or BA-2-16 series fasteners.
- · Finish: Zinc Plated

T-Bar Spacers



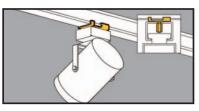
Number	Number	Description	Qty.
781011 95575	BA-21	¹ /4" Spacer	100
781011 99567	BA-21D	³ /8" Spacer	100



Acoustical 7

Acoustical Tee

- Supports electrical fixtures from ¹⁵/₁₆" T-Bar.
- #8-32 stud available in varying lengths.
- Static Load Capacity: 25 Lbs.



¹⁵/₁₆" Twist Fasteners





UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
781011 18000	BA-2-16	Black with Pal Nut	5/8" t	100
781011 04259	BA-2-16-7	Black with Pal Nut	⁷ /16"	100
781011 18010	BA-2-16-W	White with Pal Nut	5/8" t	100
781011 04261	BA-2-16-7-W	White with Pal Nut	⁷ /16"	100





UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
781011 18000	BA-2-16-BN w	Black ith Brass N	5/8" ut	100
781011 04260	BA-2-16-7-BN W	Black ith Brass N	⁷ /16" ut	100
781011 18015	BA-2-16-WBN W	White ith Brass N	5/8" ut	100
781011 99566	BA-2-16-7-WB	N White ith Brass N	⁷ /16" ut	100





- Supports electrical fixtures from ⁹/16" T-Bar.
- Stud size: 1/4"-20 x ⁵/8".
- Static Load Capacity: 40 Lbs.

⁹/₁₆" Twist Fasteners





UPC/Pa	rt
Numbe	r

Catalog
Number

Finish

Stud Length

Box Qty.

781011 03458 781011 03461 BA-4-9 BA-4-9-W Black White 5/8" 5/8" 100 100

- Supports electrical fixtures and track lighting from ⁹/16" T-Bar.
- Stud size: #8-32 x length.
- Static Load Capacity: 25 Lbs.

9/16" Twist Fasteners

BA-2-9 Series with Pal Nut





BA-2-9-BN Series with Brass Nut

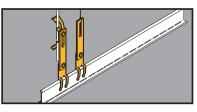


UPC/Part	Catalog	Finish	Stud	Box
Number	Number		Length	Qty.
781011 03467	BA-2-9	Black	5/8"	100
781011 03466	BA-2-9-7	Black	⁷ /16"	100
781011 03459	BA-2-9-W	White	5/8"	100
781011 03465	BA-2-9-BN	Black	5/8"	100
781011 03464	BA-2-9-7-BN	Black	7/16"	100
781011 03460	BA-2-9-WBN	White	5/8"	100



Acoustical Tee

- Secures independent support wires to ceiling grid as required by NEC Article 300.11.
- Slotted design permits adjustment when securing rods.
- Bright yellow color, Per NEC 300.11 (A), is easily identified by inspectors.



Drop Wire/Rod Securing Clip



BA-311



BA-311-W2 Shown

UPC/Part Number	Catalog Number	Description	Box Qty.
781011 99569	BA311	#12 thru #8 Wire	100
781011 99570	BA311-W2	#12 thru ¹ /4" Plain or Threaded Rod	100
781011 99571	BA311-W6	³ /8" Plain or Threaded Rod	100





Seismic Fixture Clamps

- BA-SFC Series provides seismic restraint for light fixtures within a suspended ceiling.
- B-Line's BA-SFC reduces labor by attaching light fixtures to the T-bar frame and eliminating extra drop wires or chains.
- Provides positive attachment of fixtures to ceiling grid members, in compliance with ICBO Acceptance Criteria 184 (AC 184).
- Satisfies NEC 410.16(C) which requires positive attachment for secure fastening of luminaries.
- Load rating: 200 lbs.

UPC/Part Number	Catalog Number	Description Box Qty.
782051 45911	BA-SFC	Seismic Fixture Clamp 25 sets attaches one (4 clamps standard 2' x 4' light per set) fixture to T-bar ceiling
782051 45912	BA-SFC-E *	For attachment of two standard 2' x 4' light (4 clamps fixtures end-to-end onto T-bar ceiling
782051 45913	BA-SFC-S *	For attachment of two 25 sets standard 2' x 4' light (4 clamps fixtures side-by-side onto T-bar ceiling
782051 45914	BA-SFC-CF *	For attachment of standard 2' x 2' light fixtures onto T-bar per set)
782051 45915	BA-SFC-CFS	Seismic Fixture Clamp for reinforcement of main runner connection points 100 sets (2 clamps per set)

^{*} BASFC is required to complete installation.



Seismic Fixture Clamps cont.



高



BA-SFC

BA-SFC-E

BA-SFC-S

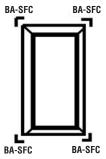




BA-SFC-CF

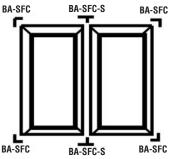
BA-SFC-CFS

Single Fixture Installation



Parts Required: 1 pc. BA-SFC Installation Kit

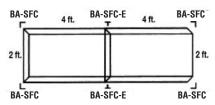
Two Fixtures (Side by Side)



Parts Required:

1 pc. BA-SFC Installation Kit 1 pc. BA-SFC-S Installation Kit

Two Fixtures (End to End)

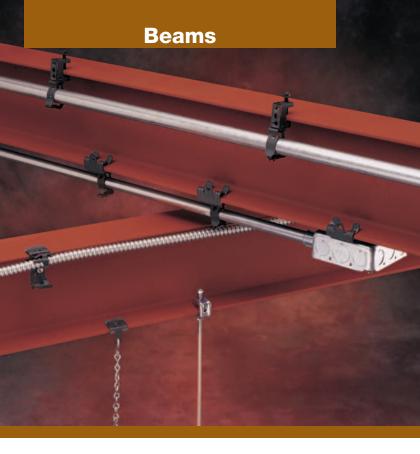


Parts Required:

1 pc. BA-SFC Installation Kit 1 pc. BA-SFC-E Installation Kit









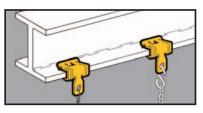






Beams

- Permits fast and easy installation on bulb tees and beams.
- Clearance hole for ¹/₄" bolt in tab.
- Simply installed with a hammer.





Flange Beam Fasteners



UPC/Part	
Number	

Catalog Number Flange Thickness Static Load Cap.

Box Qty.

781011 18290

BE-1-2

3/32" - 9/64"

4" 160 lbs.

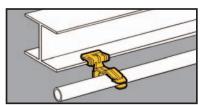
100



BE-2-4



UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
781011 18295	BE-2-4	1/8" - 1/4"	200 lbs.	100
781011 18300	BE-5-8	⁵ /16" - ¹ /2"	200 lbs.	100
781011 18305	BE-9-12	9/16" - 3/4"	200 lbs.	100



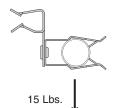
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

Push-Type Conduit To Beam Fasteners



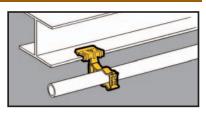
UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
781011 19275	BP-8-E-2-4	¹ /2" EMT	1/8" - 1/4"	100
781011 19280	BP-8-E-5-8	1/2" EMT	⁵ /16" - ¹ /2"	100
781011 19285	BP-8-E-9-12	¹ /2" EMT	9/16" - 3/4"	100
781011 19375	BP-12-E-2-4	³ /4" EMT 2" IMC, Rig	¹ /8" - ¹ /4"	100
781011 19380	BP-12-E-5-8	³ /4" EMT 2" IMC, Rig	⁵ / ₁₆ " - ¹ / ₂ " id	100
781011 19385	BP-12-E-9-1	2 ³ /4" EMT 2" IMC, Rig		100
781011 19465	BP-16-E-2-4	1" EMT 4" IMC, Rig		100
781011 19470	BP-16-E-5-8	1" EMT 4" IMC, Rig	⁵ / ₁₆ " - ¹ / ₂ " id	100
781011 19475	BP-16-E-9-1	2 1" EMT 4" IMC, Rig	⁹ /16" - ³ /4" id	100

Ultimate Static Load Capacity





- Unique Guide-Rite®
 Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.





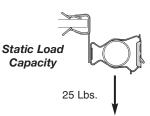




UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box
Nullibel	Number	Size	THICKHESS	Qty.
781011 18430	BG-6-E-2-4*	3/8"	1/8" - 1/4"	100
781011 18435	BG-6-E-5-8*	3/8"	⁵ /16" - ¹ /2"	100
781011 18440	BG-6-E-9-12*	3/8"	9/16" - 3/4"	100
781011 18505	BG-8-12-E-2-4	1/2", 3/4"	1/8" - 1/4"	100
781011 18510	BG-8-12-E-5-8	1/2", 3/4"	⁵ /16" - ¹ /2"	100
781011 18515	BG-8-12-E-9-1	2 1/2", 3/4"	9/16" - 3/4"	100
781011 18575	BG-16-E-2-4	1"	1/8" - 1/4"	100
781011 18580	BG-16-E-5-8	1"	⁵ /16" - ¹ /2"	100
781011 18585	BG-16-E-9-12	1"	9/16" - 3/4"	100
781011 18660	BG-20-E-2-4	1 ¹ /4"	1/8" - 1/4"	100
781011 18665	BG-20-E-5-8	1 ¹ /4"	⁵ /16" - ¹ /2"	100
781011 18670	BG-20-E-9-12	1 ¹ /4"	9/16" - 3/4"	100
781011 18705	BG-24-E-2-4	1 ¹ /2"	1/8" - 1/4"	50
781011 18710	BG-24-E-5-8	1 ¹ /2"	⁵ /16" - ¹ /2"	50
781011 18715	BG-24-E-9-12	1 ¹ /2"	9/16" - 3/4"	50
781011 18745	BG-32-E-2-4	2"	1/8" - 1/4"	50
781011 18750	BG-32-E-5-8	2"	⁵ /16" - ¹ /2"	50
781011 18755	BG-32-E-9-12	2"	9/16" - 3/4"	50
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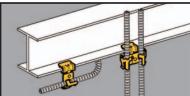
Patent #4958792

 * BG-6 will accept the following range Ø.420 - Ø.675:
 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit









Cable To Beam Fasteners

- Attaches MC, AC, sizes 14/2 through 10/3 or ³/8" FMC to beam flanges ¹/8" to ³/4" thick.
- Fasteners will rotate 360°.
- Simply installed with a hammer.



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UPC/Part Number	Catalog Number	Type of Runs	Flange Thickness	Box Qty.
781011 01192	BX4-E-2-4	Single	1/8" - 1/4"	100
781011 01193	BX4-E-5-8	Single	⁵ /16" - ¹ /2"	100
781011 01194	BX4-E-9-12	Single	⁹ /16" - ³ /4"	100



UPC/Part Number	Catalog Number	Type of Runs	Flange Thickness	Box Qty.
781011 01213	BX4M-E-2-4	Double	1/8" - 1/4"	100
781011 01214	BX4M-E-5-8	Double	⁵ /16" - ¹ /2"	100
781011 01215	BX4M-E-9-12	Double	9/16" - 3/4"	100

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- · Load Capacity: 50 lbs.



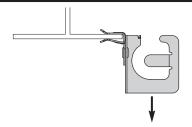
MC/AC Cable Carrier to Beam Fastener



BRC5-2-E24



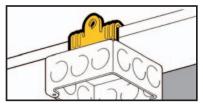
UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
782051 44093 782051 44096 782051 44099 782051 44102 782051 44094 782051 44097 782051 44100 782051 44103	BRC51-E12 BRC51-E24 BRC51-E58 BRC51-E912 BRC52-E12 BRC52-E24 BRC52-E24 BRC52-E58 BRC52-E912	3/32" - 9/64" 1/8" - 1/4" 5/16" - 1/2" 9/16" - 3/4" 3/32" - 9/64" 1/8" - 1/4" 5/16" - 1/2" 9/16" - 3/4"	25 25 25 25 25 25 25 25 25
782051 44095 782051 44098 782051 44101 782051 44104	BRC53-E12 BRC53-E24 BRC53-E58 BRC53-E912	3/32" - 9/64" 1/8" - 1/4" 5/16" - 1/2" 9/16" - 3/4"	25 25 25 25 25



Static Load Capacity

50 Lbs.

Beams



Universal Beam Fasteners

 Suspend boxes or fixtures from beam flanges ¹/₈" to ³/₄" thick.

 Provided with ¹/₄"-20 thread impression for quick and secure attachment.

 Simply installed with a hammer.



			_
781011 19600	BU-2-4	1/8" - 1/4"	100
781011 19605	BU-5-8	⁵ /16" - ¹ /2"	100
781011 19610	BU-9-12	9/16" - 3/4"	100



UPC/Part

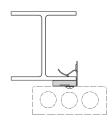


Catalog

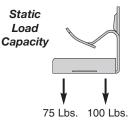
1/4"-20 x 3/8" Staked Stud

Flange

Number	Number	Thickness	Qty.
781011 19615	BU-2-4-S	1/8" - 1/4"	100
781011 19620	BU-5-8-S	⁵ /16" - ¹ /2"	100
781011 19625	BU-9-12-S	⁹ /16" - ³ /4"	100









- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- · Load Capacity: 50 lbs.

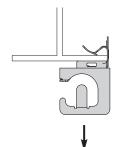


MC/AC Cable Carrier to Beam Fastener





UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
782051 44066	BRC51-U24	1/8" - 1/4"	25
782051 44069	BRC51-U58	⁵ /16" - ¹ /2"	25
782051 44072	BRC51-U912	⁹ /16" - ³ /4"	25
782051 44067	BRC52-U24	1/8" - 1/4"	25
782051 44070	BRC52-U58	⁵ /16" - ¹ /2"	25
782051 44073	BRC52-U912	⁹ /16" - ³ /4"	25
782051 44068	BRC53-U24	1/8" - 1/4"	25
782051 44071	BRC53-U58	⁵ /16" - ¹ /2"	25
782051 44074	BRC53-U912	⁹ /16" - ³ /4"	25



Static Load Capacity

75 Lbs.





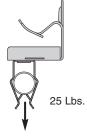
Push-Type Conduit To Beam Fasteners

- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
781011 19310	BP-8-U-2-4	¹ /2" EMT	1/8" - 1/4"	100
781011 19315	BP-8-U-5-8	1/2" EMT	5/16" - 1/2"	100
781011 19320	BP-8-U-9-12	2 ¹ /2" EMT	9/16" - 3/4"	100
781011 19405	BP-12-U-2-4	³ /4" EMT 2" IMC, Rig		100
781011 19410	BP-12-U-5-8	3 ³ /4" EMT 2" IMC, Rig		100
781011 19415	BP-12-U-9-1	2 3/4" EMT 2" IMC, Rig		100
781011 19490	BP-16-U-2-4	1" EMT 4" IMC, Rig		100
781011 19495	BP-16-U-5-8	3 1" EMT /4" IMC, Rig	⁵ / ₁₆ " - ¹ / ₂ "	100
781011 19500	BP-16-U-9-1	2 1" EMT 4" IMC, Rig	⁹ /16" - ³ /4" id	100

Ultimate Static Load Capacity





- Unique Guide-Rite® Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- · Simply installed with a hammer and pliers.









UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
Number	Number	OIZC	THICKIESS	Gty.
781011 18450	BG-6-U-2-4*	3/8"	1/8" - 1/4"	100
781011 18455	BG-6-U-5-8*	3/8"	5/ ₁₆ " - 1/2"	100
781011 18460	BG-6-U-9-12*	3/8"	9/16" - 3/4"	100
781011 18525	BG-8-12-U-2-4	1/2", 3/4"	1/8" - 1/4"	100
781011 18530	BG-8-12-U-5-8	1/2", 3/4"	⁵ /16" - ¹ /2"	100
781011 18535	BG-8-12-U-9-1	2 1/2", 3/4"	9/16" - 3/4"	100
781011 18625	BG-16-U-2-4	1"	1/8" - 1/4"	100
781011 18630	BG-16-U-5-8	1"	⁵ /16" - ¹ /2"	100
781011 18635	BG-16-U-9-12	1"	9/16" - 3/4"	100
781011 18680	BG-20-U-2-4	1 ¹ /4"	1/8" - 1/4"	100
781011 18685	BG-20-U-5-8	1 ¹ /4"	⁵ /16" - ¹ /2"	100
781011 18690	BG-20-U-9-12	11/4"	9/16" - 3/4"	100
781011 18720	BG-24-U-2-4	11/2"	1/8" - 1/4"	50
781011 18725	BG-24-U-5-8	1 ¹ /2"	⁵ / ₁₆ " - ¹ / ₂ "	50
781011 18730	BG-24-U-9-12	1 ¹ /2"	9/16" - 3/4"	50
781011 18760	BG-32-U-2-4	2"	1/8" - 1/4"	50
781011 18765	BG-32-U-5-8	2"	⁵ /16" - ¹ /2"	50
781011 18770	BG-32-U-9-12	2"	9/16" - 3/4"	50
D-1 #40E0700				

Patent #4958792

* BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit









Beam Fasteners With Anchor Straps

- Anchor strap provides secure attachment to beam flanges.
- Suspends threaded rod from beam flanges.
- 8" anchor straps are provided for ¹/8" to ¹/4" thick flanges.
- 13" anchor straps are provided for ⁵/₁₆" to ³/₄" thick flanges.



Static Load Capacity 75 Lbs.



UPC/Part Number	Catalog Number	Stud Size	Flange Thickness	Box Qty.
781011 04942	BU-2-4-S-AS	¹ /4"-20 x ³ /8"	1/8" - 1/4"	50
781011 04943	BU-5-8-S-AS	¹ /4"-20 x ³ /8"	⁵ /16" - ¹ /2"	50
781011 04944	BU-9-12-S-AS	¹ /4"-20 x ³ /8"	⁹ /16" - ³ /4"	50



Static Load Capacity 160 Lbs.

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UPC/Part Number	Catalog Number	Threaded Rod Size	Flange Thickness	Box Qty.
781011 04948	BH4-E-2-4-AS	1/4"-20	1/8" - 1/4"	50
781011 04949	BH4-E-5-8-AS	1/4"-20	⁵ /16" - ¹ /2"	50
781011 04950	BH4-E-9-12-AS	¹ /4"-20	9/16" - 3/4"	50
781011 04951	BH6-E-2-4-AS	³ /8"-16	1/8" - 1/4"	50
781011 04952	BH6-E-5-8-AS	³ /8"-16	5/16" - 1/2"	50
781011 04953	BH6-E-9-12-AS	³ /8"-16	9/16" - 3/4"	50



- Anchor strap provides secure attachment to beam flanges.
- Unique Guide-Rite[®]
 Fastener provides for fast and easy installation.
- 8" anchor straps are provided for ¹/₈" to ¹/₄" thick flanges.
- 13" anchor straps are provided for ⁵/₁₆" to ³/₄" thick flanges.





Conduit To Beam Fasteners With Anchor Straps



Static Load Capacity

75 Lbs.



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
781011 04966	BG-8-12-U-2-4-AS	1/2", 3/4"	1/8" - 1/4"	50
781011 04967	BG-8-12-U-5-8-AS	1/2", 3/4"	⁵ /16" - ¹ /2"	50
781011 04968	BG-8-12-U-9-12-A	S ¹ /2", ³ /4"	9/16" - 3/4"	50
781011 04969	BG-16-U-2-4-AS	1"	1/8" - 1/4"	50
781011 04970	BG-16-U-5-8-AS	1"	⁵ /16" - ¹ /2"	50
781011 04971	BG-16-U-9-12-AS	1"	⁹ /16" - ³ /4"	50



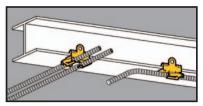
Static Load Capacity

25 Lbs.



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
781011 04972	BG-8-12-E-2-4-AS	1/2", 3/4"	1/8" - 1/4"	50
781011 04973	BG-8-12-E-5-8-AS	1/2", 3/4"	5/16" - 1/2"	50
781011 04974	BG-8-12-E-9-12-A	S 1/2", 3/4"	9/16" - 3/4"	50
781011 04975	BG-16-E-2-4-AS	1"	1/8" - 1/4"	50
781011 04976	BG-16-E-5-8-AS	1"	5/16" - 1/2"	50
781011 04977	BG-16-E-9-12-AS	1"	9/16" - 3/4"	50





- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.

Cable To Beam Fasteners



c(VL) us

UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
781011 01197	BX4-U-2-4	Single Runs	1/8" - 1/4"	100
781011 01198	BX4-U-5-8	Single Runs	⁵ /16" - ¹ /2"	100
781011 01199	BX4-U-9-12	Single Runs	9/16" - 3/4"	100

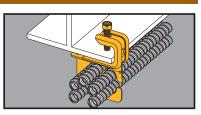


UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
781011 01206	BX4M-U-2-4	Double Runs	1/8" - 1/4"	100
781011 01207	BX4M-U-5-8	Double Runs	5/16" - 1/2"	100
781011 01208	BX4M-U-9-12	Double Runs	⁹ /16" - ³ /4"	100



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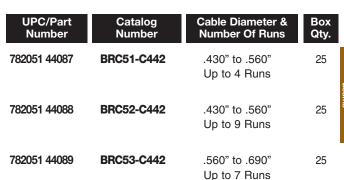
- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges from ¹/₈" thru ⁵/₈" thick.
- Load Capacity: 50 lbs.



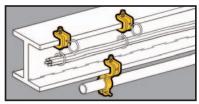
MC/AC Cable Carrier to Beam Fastener



BRC5-1-C442

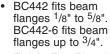






Beam Fasteners





- · Finish: Zinc Plated
- Static Load Capacity: BC442 = 100 Lbs. BC442-6 = 200 Lbs.



UPC/Part Number	Catalog Number	Description	Box Qty.
781011 18278	BC442	Accepts 1/4"-20 Threaded Rod or 1/4"-20 Threaded Bridle Rings	
781011 04283	BC442-6	Accepts ³ /8"-16 Threaded Rod	25

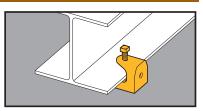




UPC/Part Number	Catalog Number	Condu Rigid	it Size EMT	Box Qty.
781011 19850	BL1400-C442	1/2"	1/2"	50
781011 19851	BL1410-C442	3/4"	3/4"	50
781011 19852	BL1420-C442	1"	1"	50
781011 19853	BL1425-C442		1 ¹ /4"	50
781011 19854	BL1430-C442	1 ¹ /4"	1 ¹ /2"	50
781011 19855	BL1440-C442	1 ¹ /2"		25
781011 19856	BL1450-C442	2"	2"	25



- Can be used with 1/4"-20 and 3/8"-16 threaded rod or bridle rings.
- Fits beam flanges through ¹/₂" thick.
- Safety Factor of 5.
- · Finish: Zinc-Plated



Beam Fasteners





UPC/Part Number	Catalog Number	Rod Size	Static Load Cap.	Box Qty.
781011 55333	B444- ¹ /4	1/4"-20	150 lbs.	50
781011 55338	B444- ⁵ /16	⁵ /16"-18	150 lbs.	50
781011 55343	B444- ³ /8	³ /8"-16	350 lbs.	25



Conduit To Beam Fasteners

- Fits beam flanges thru 1/2" thick.
- Accepts "S" hooks, 1/4" and 3/8" threaded rod, 1/4"-20 or #10-24 threaded bridle rings.
- Supports conduit and electrical boxes.





UPC/Part	
Number	

Catalog Number

Flange **Thickness**

Static Load Cap Qty.

781011 18275

BC₁

Thru ¹/2"

100 Lbs.

100

Guide-Rite® Fastener





UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap.	Box Qty.
781011 18490	BG-8-12-C2	1/2", 3/4"	100 Lbs.	100
781011 18570	BG-16-C2	1"	100 Lbs.	100
781011 18655	BG-20-C2	11/4"	100 Lbs.	100
781011 18700	BG-24-C2	11/2"	100 Lbs.	100
781011 18740	BG-32-C2	2"	100 Lbs.	100





Conduit To Beam Fasteners

Guide-Rite® Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap.	Box Qty.
781011 18485	BG-8-12-C1	1/2", 3/4"	25 Lbs.	100
781011 18565	BG-16-C1	1"	25 Lbs.	100
781011 18650	BG-20-C1	1 ¹ /4"	25 Lbs.	100
781011 18695	BG-24-C1	1 ¹ /2"	25 Lbs.	50
781011 18735	BG-32-C1	2"	25 Lbs.	50



Push-Type

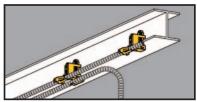
UPC/Part Number	Catalog Number	Conduit Size	Ultimate Static Load Cap.	Box Qty.
781011 19260 781011 19360	BP-8-C2 BP-12-C2	¹ /2" EMT ³ /4" EMT ¹ /2" IMC, Rigid	25 Lbs. 25 Lbs.	100 100
781011 19455	BP-16-C2	1" EMT 3/4" IMC, Rigid	25 Lbs.	100



Push-Type

UPC/Part Number	Catalog Number	Conduit Size	Ultimate Static Load Cap.	Box Qty.
781011 19255	BP-8-C1	¹ /2" EMT	25 Lbs.	100
781011 19355	BP-12-C1	³ /4" EMT ¹ /2" IMC, Rigid	25 Lbs.	100
781011 19450	BP-16-C1	1" EMT 3/4" IMC, Rigid	25 Lbs.	100





Cable To Beam Fasteners





BX4M-C2

360°.



Attaches MC, AC, sizes 14/2 through 10/3

or ³/8" FMČ to beam flanges thru 1/2" thick. Fasteners will rotate

Requires only a

UPC/Part Number

Catalog Number

Flange Thickness Qty.

781011 01190

BX4-C2

Single Runs

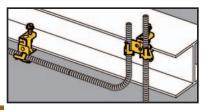
100

781011 01210

BX4M-C2

Double Runs

100



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

Cable To Beam Fasteners





BX4M-C1



UPC/Part Number

Catalog Number

Flange Thickness Qty.

781011 01191

BX4-C1

Single Runs

781011 01209

100

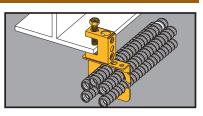
BX4M-C1

Double Runs 100

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges thru ¹/2" thick.
- · Load Capacity: 50 lbs.



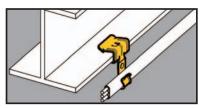
MC/AC Cable Carrier to Beam Fastener



BRC5-x-C2



UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
782051 44090	BRC51-C2	.430" to .560" Up to 4 Runs	25
782051 44091	BRC52-C2	.430" to .560" Up to 9 Runs	25
782051 44092	BRC53-C2	.560" to .690" Up to 7 Runs	25



Cable To Beam Fasteners

- Attaches Type NM cable to beam flanges ¹/8" to ¹/2" thick.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- Simply installed with a hammer.

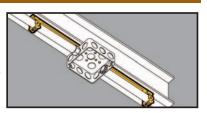




UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
781011 03550	BRC3-E-2-4	¹ /8" to ¹ /4"	100
781011 03551	BRC3-E-5-8	⁵ /16" to ¹ /2"	100
781011 03552	BRC3-E-9-12	⁹ /16" to ³ /4"	100



- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flangles ¹/8" to ¹/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.



Guide-Rite[®] Conduit & Box Support Fasteners



 See Ruff-IN brochure for pre-fab box assemblies.



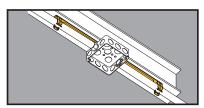


UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
781011 03583	BG6-S18-U24 *	3/8"	¹ /8" to ¹ /4"	25
781011 03584	BG6-S18-U58 *	3/8"	⁵ /16" to ¹ /2"	25
781011 03579	BG812-S18-U24	1/2", 3/4"	1/8" to 1/4"	25
781011 03580	BG812-S18-U58	1/2", 3/4"	⁵ /16" to ¹ /2"	25
781011 03581	BG16-S18-U24	1"	1/8" to 1/4"	25
781011 03582	BG16-S18-U58	1"	⁵ /16" to ¹ /2"	25
			Patent #49	58792

With Multiple Con	duit Plate			
782051 52813	BG6-S18-U24-MC3 *	3/8"	1/8" to 1/4"	25
782051 52814	BG6-S18-U58-MC3 *	3/8"	⁵ /16" to ¹ /2"	25
782051 52815	BG812-S18-U24-MC3	1/2", 3/4"	1/8" to 1/4"	25
782051 52816	BG812-S18-U58-MC3	1/2", 3/4"	⁵ /16" to ¹ /2"	25
782051 52817	BG16-S18-U24-MC3	1"	¹ /8" to ¹ /4"	25
782051 52823	BG16-S18-U58-MC3	1"	5/16" to 1/2"	25

^{*} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit





Push-Type Conduit & Box Support Fasteners

 See Ruff-IN brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flangles ¹/8" to ¹/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.





UPC/Part Number	Catalog Number	Conduit Size EMT IMC/Rigid	Flange Thickness	Box Qty.
782051 23635	BP8-S18-U24	3/8"	1/8" to 1/4"	25
782051 23638	BP8-S18-U58	3/8"	⁵ /16" to ¹ /2"	25
782051 23636	BP12-S18-U24	1/2", 3/4"	1/8" to 1/4"	25
782051 23639	BP12-S18-U58	1/2", 3/4"	⁵ /16" to ¹ /2"	25
782051 23637	BP16-S18-U24	1"	¹ /8" to ¹ /4"	25
782051 23640	BP16-S18-U58	1"	⁵ /16" to ¹ /2"	25

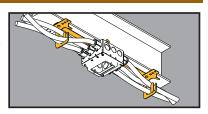
With Multiple Conduit Plate

With Midiaple Con	duit i late			
782051 52824	BP8-S18-U24-MC3	3/8"	¹ /8" to ¹ /4"	25
782051 52826	BP8-S18-U58-MC3	3/8"	⁵ /16" to ¹ /2"	25
782051 52827	BP12-S18-U24-MC3	1/2", 3/4"	1/8" to 1/4"	25
782051 52828	BP12-S18-U58-MC3	1/2", 3/4"	⁵ /16" to ¹ /2"	25
782051 52825	BP16-S18-U24-MC3	1"	¹ /8" to ¹ /4"	25
782051 52964	BP16-S18-U58-MC3	1"	⁵ /16" to ¹ /2"	25

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating,



- Riveted assembly provides support for electrical box and cable run on either side of box.
- Cable retension tab is open for easy loading and contains cable when bent in place.
- See Ruff-IN brochure for pre-fab box assemblies.



Multi-Run Cable Carrier & Box Support Fastener





UPC/Part Number	Catalog Number	Cable Size # of Runs	Flange Thickness	Box Qty.
782051 52829	BRC51-S18-U24	.43"56" up to 4 runs	¹ /8" to ¹ /4"	25
782051 52830	BRC51-S18-U58	.56"69" up to 7 runs	⁵ /16" to ¹ /2"	25
782051 52834	BRC53-S18-U24	.43"56" up to 4 runs	¹ /8" to ¹ /4"	25
782051 52835	BRC53-S18-U58	.56"69" up to 7 runs	⁵ /16" to ¹ /2"	25









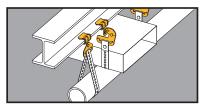


Read safety/installation instruction sheets in packages before use.



- Suspends straps thru 1¹/2" wide from beam flanges ¹/8" to ³/4" thick.
- Suspends straps parallel or at right angles to beams.
- Simply installed with a hammer.
- Static Load Capacity: 200 Lbs.

Parallel



Strap Hangers





Right Angle



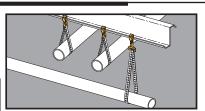
UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
781011 04930	BHE-1-2	Parallel	¹ /16" to ¹ /8"	100
781011 18870	BH-2-4	Parallel	¹ /8" to ¹ /4"	100
781011 18880	BH-5-8	Parallel	⁵ /16" to ¹ /2"	100
781011 18890	BH-9-12	Parallel	⁹ /16" to ³ /4"	100
781011 04115	BH-1-2-R	Right Angle	¹ /16" to ¹ /8"	100
781011 18875	BH-2-4-R	Right Angle	¹ /8" to ¹ /4"	100
781011 18885	BH-5-8-R	Right Angle	⁵ /16" to ¹ /2"	100
781011 18895	BH-9-12-R	Right Angle	⁹ /16" to ³ /4"	100

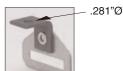
"Z" Purlin Hangers











BH-H7

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UPC/Part Number	Catalog Number	Description	Box Qty.
781011 03385	BH-F12	Right Angle	100
781011 03384	BH-F12-R	Parallel	100
781011 19922	ВН-Н7	Parallel	100

Rod To Beam Hangers

- Suspend wire or plain and threaded rod from beam flanges ¹/8" to ³/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.



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UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
781011 18900	BH1-E-2-4	1/8" - 1/4"	#8 Wire or ¹ /4" Plain Rod	100
781011 18905	BH1-E-5-8	5/16" - 1/2"	#8 Wire or ¹ /4" Plain Rod	100
781011 18910	BH1-E-9-12	9/16" - 3/4"	#8 Wire or ¹ /4" Plain Rod	100

Number	Number	Thickness	Size	Qty.
781011 18940	BH2-E-2-4	1/8" - 1/4"	3/8"	100
781011 18945	BH2-E-5-8	⁵ /16" - ¹ /2"	3/8"	100
781011 18950	BH2-E-9-12	9/16" - 3/4"	3/8"	100



Rod To Beam Hangers

With Thread Impression

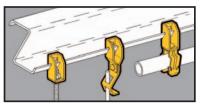


Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
H4-E-2-4	1/8" - 1/4"	1/4"	100
H4-E-5-8	⁵ /16" - ¹ /2"	1/4"	100
H4-E-9-12	9/16" - 3/4"	1/4"	100
H6-E-2-4	1/8" - 1/4"	3/8"	100
H6-E-5-8	⁵ /16" - ¹ /2"	3/8"	100
H6-E-9-12	9/16" - 3/4"	3/8"	100
	H4-E-2-4 H4-E-5-8 H4-E-9-12 H6-E-2-4 H6-E-5-8 H6-E-9-12	1/8" - 1/4" H4-E-5-8 5/16" - 1/2" H4-E-9-12 9/16" - 3/4" H6-E-2-4 1/8" - 1/4" H6-E-5-8 5/16" - 1/2"	H4-E-2-4

Note: BH4 and BH	3 have thread	impressions.
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UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
781011 19020	BH5-E-2-4*	1/8" - 1/4"	¹ / ₄ " or ³ / ₈ "	100
781011 19025	BH5-E-5-8*	⁵ /16" - ¹ /2"	¹ / ₄ " or ³ / ₈ "	100
781011 19030 *Nuts Required.	BH5-E-9-12*	⁹ /16" - ³ /4"	¹ /4" or ³ /8"	100





"Z" Purlin Hangers

 Compensates for angle of purlin lip.

- Allows for parallel conduit runs or vertical support drops.
- Riveted fasteners will rotate 360°.
- Maximum Purlin thickness of ³/₃₂".

BF13





BF12

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UPC/Part Number	Catalog Number	Description	Static Load Cap. Lbs.	Box Qty.
781011 18345	BF13	With ¹ / ₄ " Hole	100	100
781011 18340	BF12	For "S" Hooks	100	100

Guide-Rite® Fastener BG Series





Push-Type BP Series

UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap. Lbs.	Box Qty.
781011 18445	BG-6-F13*	3/8"	100	100
781011 18520	BG-8-12-F1	3 1/2", 3/4"	100	100
781011 18590	BG-16-F13	1"	100	100
781011 18675	BG-20-F13	1 ¹ /4"	100	50
781011 19290	BP-8-F13	¹ /2" EMT	25	100
781011 19390	BP-12-F13	³ / ₄ " EMT ¹ / ₂ " IMC, Rigid	25	100
781011 19480	BP-16-F13	1" EMT ³ /4" IMC, Rigid	25	50

^{*} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit





Universal Beam Fasteners



UPC/Part Number	Catalog Number	Description	Static Load Cap.	Box Qty.
781011 18920	BH1-F12	#8 Wire or ¹ /4" Plain Rod	100 Lbs.	100
781011 18960	BH2-F12	³ /8" Plain Rod	100 Lbs.	100





UPC/Part Number	Catalog Number	Threaded Rod Size	Static Load Cap.	Box Qty.
781011 19000	BH4-F12	1/4"	100 Lbs.	100
781011 19080	BH6-F12	3/8"	100 Lbs.	100
781011 19040	BH5-F12*	1/4" & 3/8"	100 Lbs.	100

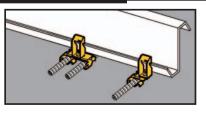
*Nuts Required.

Note: BH4 and BH6 have thread impressions.

- Compensates for angle of purlin lip.
- Attaches MC, AC, sizes 14/2 through 10/3 or ³/8" FMC to "Z" Purlins up to ³/32" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.





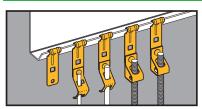


Cable To "Z" Purlin Flange Hangers

BX4M-F13



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
781011 01188	BX4-F13	Single Runs	Thru ³ /32"	100
781011 01204	BX4M-F13	Double Runs	Thru ³ /32"	100



"Z" Purlin Flange Hangers

- Suspend wire, or plain and threaded rod from "Z" Purlins.
- Fits "Z" Purlins ¹/₁₆" to ¹/₄" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.





UPC/Part Number Catalog Number

Description

Box Qty.

781011 04271

BF4

For "S" Hooks, Bolting Straps and Wrap Wire 100



UPC/Part Number Catalog Number

Description

Box Qty.

781011 04164

BT3

Installation Tool for BF4 Hangers (Insert ¹/2" Rigid conduit for installation) 1

Read safety/installation instruction sheets in packages before use.



Hangers

"Z" Purlin Flange Hangers





UPC/Part Number	Catalog Number	Description	Box Qty.
781011 04274	BH1-F4	#8 Wire or ¹ /4" Plain Rod	100
781011 04276	BH2-F4	³ /8" Plain Rod	100



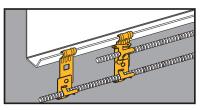


UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
781011 04286	BH4-F4	1/4"	100
781011 04280	BH6-F4	3/8"	100
781011 04278	BH5-F4*	1/4" - 3/8"	100

* Nuts required.

Note: BH4 & BH6 have thread impressions.

COOPER B-Line



- Attaches MC, AC, sizes 14/2 thru 10/3 or 3/8" FMC to "Z" Purlins.
- Fits "Z" Purlin flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.

Cable To "Z" Purlin Flange Hangers





UPC/Part Number Catalog Number

Description

Box Qty.

781011 04931

BX4-F4

Single Runs

100

These products are designed for positioning only. No load rating.



UPC/Part Number

Catalog Number

Description

Box Qty.

781011 04932

BX4M-F4

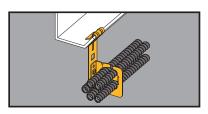
Double Runs

100

This product is designed for positioning only. No load rating.



- Secures and supports multiple runs of MC/AC cable to 'Z' purlins.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- · Load Capacity: 50 lbs.



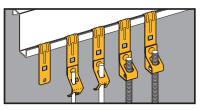
MC/AC Cable Carrier to 'Z' Purlin Flange Hanger





UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
782051 44084	BRC51-F4	.430" to .560" Up to 4 Runs	25
782051 44085	BRC52-F4	.430" to .560" Up to 9 Runs	25
782051 44086	BRC53-F4	.560" to .690" Up to 7 Runs	25





- Suspend wire, or plain and threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

Vertical Flange Hangers



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UPC/Part Number

Catalog Number

Description

Box Qtv.

781011 04270

BF3

For "S" Hooks, Bolting Straps and Wrap Wire

100



UPC/Part Number

Catalog Number

Description

Box Qty.

1

781011 04164

BT3

Installation Tool for BF3 Hangers (Insert 1/2" Rigid conduit for installation)



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Vertical Flange Hangers





UPC/Part Number	Catalog Number	Description	Box Qty.
781011 04273	BH1-F3	#8 Wire or ¹ /4" Plain Rod	100
781011 04275	BH2-F3	³ /8" Plain Rod	100



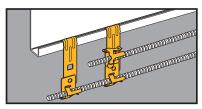


4¹/₄" Overall Height

UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
781011 04285	BH4-F3	1/4"	100
781011 04279	BH6-F3	3/8"	100
781011 04933	BH5-F3*	1/4", 3/8"	100

* Nuts required.





Cable To Vertical Flange Hangers

- Attaches MC, AC, sizes 14/2 through 10/3 or ³/8" flexible conduit FMC to vertical flanges ¹/16" to ¹/4" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.



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UPC/Part Number Catalog Number Description

Box Qty.

781011 04281

BX4-F3

Single Runs

100

This product is designed for positioning only. No load rating.



200

UPC/Part Number Catalog Number

Description

Box Qty.

781011 04282

BX4M-F3

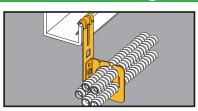
Double Runs

100

This product is designed for positioning only. No load rating.



- Secures and supports multiple runs of MC/AC cable to vertical flanges.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- · Load Capacity: 50 lbs.



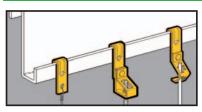
MC/AC Cable Carrier To Vertical Flange Hanger





UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
782051 44081	BRC51-F3	.430" to .560" Up to 4 Runs	25
782051 44082	BRC52-F3	.430" to .560" Up to 9 Runs	25
782051 44083	BRC53-F3	.560" to .690" Up to 7 Runs	25





- Suspend wire, or plain or threaded rod from vertical flanges.
- Fits vertical flanges
 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

Vertical Flange Hangers





UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
781011 18310	BF1	1/16" - 5/32"	For "S" Hooks, Bolting Straps and Wrap Wire	100
781011 18315	BF2	5/32" - 1/4"	For "S" Hooks, Bolting Straps and Wrap Wire	100





UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
781011 18915	BH1-F1	¹ / ₁₆ " - ⁵ / ₃₂ "	#8 Wire or 1/4" Plain Rod	100
781011 18925	BH1-F2	5/32" - 1/4"	#8 Wire or	100





Vertical Flange Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Plain Rod Size	Box Qty.
781011 18955	BH2-F1	¹ /16" to ⁵ /32"	3/8"	100
781011 18965	BH2-F2	⁵ /32" to ¹ /4"	3/8"	100

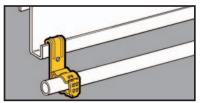




UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
781011 18995	BH4-F1	¹ /16" to ⁵ /32"	1/4"	100
781011 19075	BH6-F1	¹ /16" to ⁵ /32"	3/8"	100
781011 19005	BH4-F2	⁵ /32" to ¹ /4"	1/4"	100
781011 19085	BH6-F2	5/32" to 1/4"	3/8"	100

UPC/Part Number	Catalog Number	Flange Thickness	Plain Rod Size	Box Qty.
781011 19035	BH5-F1*	¹ /16" to ⁵ /32"	1/4", 3/8"	100
781011 19045 * Nuts required.	BH5-F2*	⁵ /32" to ¹ /4"	1/4", 3/8"	100





Conduit To Vertical Flange Hangers

- Supports ³/₈" to 1" conduit from vertical flanges ¹/₁₆" to ¹/₄" thick.
- Patented Guide-Rite® feature ensures fastener will close and lock every time.
- Simply installed with a hammer and pliers.
- Static Load Capacity: 25 Lbs.

Guide-Rite® Fastener



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.	
781011 19957	BG-6-F1*	3/8"	1/16" - 5/32"	100	
781011 19960	BG-6-F2*	3/8"	5/32" - 1/4"	100	
781011 19958	BG-8-12-F1	1/2" & 3/4"	1/16" - 5/32"	100	
781011 19961	BG-8-12-F2	1/2" & 3/4"	5/32" - 1/4"	100	
781011 19959	BG-16-F1	1"	¹ / ₁₆ " - ⁵ / ₃₂ "	100	
781011 19962	BG-16-F2	1"	5/32" - 1/4"	100	
			Patent #40	58702	

Patent #4958792

* BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit



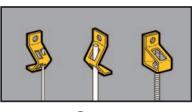


UPC/Part Number	Catalog Number	Wire Size	Flange Thickness	Box Qty.
781011 03556	BRC3-F1	14/2 & 12/2 With Ground	1/16" - 5/32"	100
781011 03557	BRC3-F2	14/2 & 12/2 With Ground	5/32" - 1/4"	100

Note: These products are designed for positioning only. No load rating.



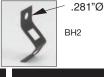
- BH1, BH2: Supports wire or plain rod.
- BH7, BH8: For wire or chain drop from concrete or wood.
- BH4, BH5, BH6 supports 1/4" or 3/8"
- threaded rod. Static Load Capacity: 160 Lbs.



Components



.281"Ø





UPC/Part Number

Catalog Number

Description

Box

781011 18800 781011 18805 BH₁ BH₂ #8 Wire or 1/4" Plain Rod For 3/8" Plain Rod

100 100

BH4 BH₆



.281"Ø



.281"Ø BH5

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UPC/Part Number 781011 18815

Catalog Number **BH4**

Description

Box Qty.

100

100

781011 18825

BH6

BH5*

For 1/4" Threaded Rod For 3/8" Threaded Rod

100

781011 18820 * Nuts required.

Note: BH4 & BH6 have thread impressions.

BH7





BH8

For 1/4" & 3/8"

Threaded Rod



Qty.

100

100

UPC/Part Number 781011 18830

781011 18835

781011 18840

Catalog Number **BH7**

BH7-6

BH8

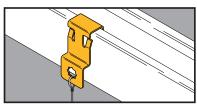
Description

Angle Bracket With .281"Ø Holes

Angle Bracket 100 With .281"Ø & .406"Ø Holes Offset Bracket 100

781011 18845 **BH8-6**

With .281"Ø Holes Offset Bracket With .281"Ø & .406"Ø Holes



Strut Fasteners



- Great for retrofit and add-on applications.
- BSC4 provides a 1/4" mounting hole along the side of a standard strut member.
- Riveted assemblies allow for easy attachment of conduit, cable and rod.



UPC/Part Number

Catalog Number

Description

Load Capacity Box

782051 46573

BSC4

Strut Clip

60 lbs.

100



Number 782051 46581

UPC/Part

BH4-SC4

Catalog

Number

Rod Size

Load Capacity

Box Qty.

782051 46582

1/4"-20

60 lbs.

100

BH6-SC4

3/8"-20

60 lbs.

100









BG_-SC4

BL14__-SC4

UPC/Part Number	Catalog Number	•		Box Qty.
782051 46577	BG6-SC4	MC/AC & ³ /8"	25 lbs.	100
782051 46578 782051 46579	BG812-SC4 BP8-SC4	1/2" & 3/4"	25 lbs. 15 lbs.	100
782051 46580	BP12-SC4	3/4"	15 lbs.	100
782051 46588	BL1400-SC4	1/2"	60 lbs.	100
782051 46589	BL1410-SC4	3/4"	60 lbs.	100
782051 46590	BL1420-SC4	1"	60 lbs.	100

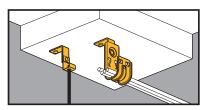


BX4M_-SC4



BRC5_-SC4

UPC/Part Number	Catalog Number	Cable Size Runs	Load Capacity	Box Qty.
782051 46584	BX4M-SC4	14/2 - 10/3 up to 2 runs		100
782051 46585	BRC51-SC4	.43"56" up to 4 runs	50 lbs.	100
782051 46586	BRC52-SC4	.43"56" up to 9 runs	50 lbs.	100
782051 46587	BRC53-SC4	.56"69" up to 7 runs	50 lbs.	100



Drive Pin Fasteners



BPNA

- Special support bracket allows clearance for powder actuated tools.
- Exclusive 1¹/₄" drive pin now pre-installed.
- Pins rated for concrete up to 4000 psi.
- Static Load Capacity: 30 Lbs. unless specified. Limited by fastener assembly. Pin rating must be considered before installation.



BCH21-PNA BCH32-PNA



BH-PNA



BH1-PNA BH2-PNA

UPC/Part Number	Catalog Number	Description	Box Qty.
782051 25583	BPNA	Angle Bracket	100
782051 28090	BCH12-PNA	3/4" Cable Hook	100
782051 25584	BCH21-PNA	1 ⁵ /16" Cable Hook	50
782051 25586	BCH32-PNA	2" Cable Hook	50
782051 25588	BCH64-PNAB	4" Cable Hook	25
782051 25611	BH-PNA	Strap Hanger Cable Hook	100
782051 25593	BH1-PNA	#8 Wire or ¹ /4" Plain Rod	100
782051 25596	BH2-PNA	³ /8" Plain Rod	100



Drive Pin Fasteners



BH_-PNA



BG_-PNA



BP_-PNA



BL14__-PNA



BX4-PNA



BX4M-PNA

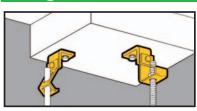
UPC/Part Number	Catalog Number	Description	Box Qty.
782051 25604	BH4-PNA*	¹ /4" Threaded Rod	100
782051 25606	BH6-PNA*	³ /8" Threaded Rod	100
782051 25605	BH5-PNA**	¹ /4" or ³ /8" Threaded Rod	100
782051 25613	BG6-PNA***	³ /8" Conduit	100
782051 25615	BG8-12-PNA	¹ /2" & ³ /4" Conduit	100
782051 25616	BG16-PNA	1" Conduit	100
782051 25623	BP8-PNA	¹ /2" EMT	100
782051 25624	BP12-PNA	3/4" EMT	100
782051 25630	BP16-PNA	1" EMT	100
782051 25620	BL1400-PNA	¹ /2" Conduit	100
782051 25621	BL1410-PNA	3/4" Conduit	100
782051 25622	BL1420-PNA	1" Conduit	100
782051 25590	BX4-PNA	Single Run MC, AC or FMC	100
782051 25591	BX4M-PNA	Double Run MC, AC or FMC	100

^{*} With threaded impressions. ** Nuts required.

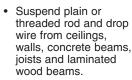


^{***} BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and ⁵/16 or ³/8 flexible conduit





Angle Bracket Fasteners



- Clearance hole for ¹/₄" bolt provided.
- Static Load Capacity: 160 Lbs.



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UPC/Part Number	Catalog Number	Description	Box Qty.
781011 18930	BH1-H7	#8 Wire or ¹ /4" Plain Rod	100
781011 18970	BH2-H7	³ /8" Plain Rod	100







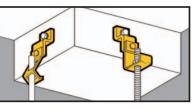
UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
781011 19010	BH4-H7	1/4"-20	100
781011 19090	BH6-H7	³ /8"-16	100
781011 19050	BH5-H7*	¹ /4"-20 or ³ /8"-16	100

^{*} Nuts required.

Note: BH4 & BH6 have thread impressions.



- Suspend plain or threaded rod and drop wire from ceilings, walls, beams, and joists.
- Clearance hole for ¹/₄" bolt provided.
- Static Load Capacity: 160 Lbs.



Offset Bracket Fasteners





UPC/Part Number	Catalog Number	Description	Box Qty.
781011 18935	BH1-H8	#8 Wire or ¹ /4" Plain Rod	100
781011 18975	BH2-H8	³ /8" Plain Rod	100



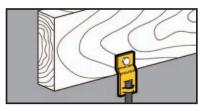


Number	Number	Rod Size	Qty.
781011 19015	BH4-H8	1/4"-20	100
781011 19095	BH6-H8	³ /8"-16	100
781011 19055	BH5-H8*	¹ /4"-20 or ³ /8"-16	100

^{*} Nuts required.

Note: BH4 & BH6 have thread impressions.

ngers



- Suspend ³/8" threaded rod from ceilings, walls, beams, and joists.
- Finish: Zinc Plated
- Static Load Capacity: 610 Lbs.

Threaded Rod Hangers

.406"Ø



UPC/Part	
Number	

Catalog Number

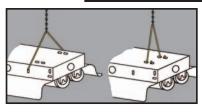
Description

Box Qty.

781011 01661

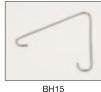
B3223-3/8

Offset Eye Socket 100



- For hanging industrial class fluorescent lighting fixtures.
- Use with Jack Chain and "S" Hooks.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

Light Fixture Hangers





BHID

рпіс

781011	01236

UPC/Part

Number

Catalog Number

Description

Box Qty.

100

BH15

Side Mount Fluorescent Light Fixture Hanger

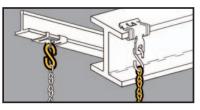
781011 01237

BH16

Top Mount Fluorescent Light Fixture Hanger 100



- For support of light fixtures and signs.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated



BH9 BH9-10



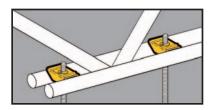
Jack Chain & "S" Hooks



BH10

UPC/Part Number	Catalog Number	Description	Box Qty.
781011 18850	ВН9	#12 Single Jack Chain	100 ft.
781011 02901	BH9-10	#10 Single Jack Chain	100 ft.
781011 18855	BH10	#11 "S" Hook	50

- · Allows centering on all open web joists with round bottom chords.
- Static Load Capacity: BH11 = 200 Lbs. BH12 = 100 Lbs.



Wedge Hangers





BH12



	-	
	(Ui)	١
L	(1)	U

UPC/Part	Catalog	Description	Box
Number	Number		Qty.
781011 18860	BH11	With ³ /8" Clearance Hole	100

781011 18865

BH12

100

With 1/4"-20 Thread Impression





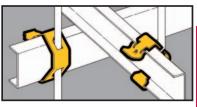






Lathers Channel

- For fastening standard lathers channels to wires and plain rods.
- Fits ¹/2" through ⁵/8" channel flange widths.
- Accepted for use by the City of New York Department of Buildings. MEA 383-91-M.
- Static Load Capacity: 160 Lbs.



Rod & Wire Fasteners





Side Mounts

BL-24-4 C Us

UPC/Part Number	Catalog Number	Channel Size	Rod/Wire Size	Box Qty.
781011 19882	BL-24-2	1 ¹ /2"	#8 Wire	100
781011 19883	BL-24-4	1 ¹ /2"	¹ /4" Rod	100
781011 19885	BL-32-4	2"	¹ /4" Rod	100



Center Mount



UPC/Part	
Number	



Channel Size Rod/Wire Size Box Qty.

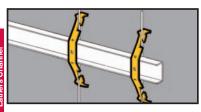
781011 19884

BL-24-4C

1¹/2"

1/4" Rod

100



Rod & Wire Fasteners

- For fastening standard 11/2" lathers channel to wires and plain rods.
- Wire size: #8 and #9.
- Rod size: 3/16" and 1/4".
- Fits ⁹/16" thru ⁵/8" channel flange widths.
- Static Load Capacity: 100 Lbs.





UPC/Part Number Catalog Number

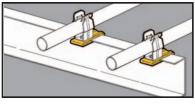
Description

Box Qty.

781011 19880

BL1

Channel to Rod & Wire 100



Flange Fasteners

- Serves as a mounting base for conduit fasteners or electrical boxes.
- Attaches to either flange of lathers channel with ¹/₄"-20 screw (furnished).
- Fits channel flange widths up to ⁵/8".





UPC/Part Number Catalog Number

Description

Box Qty.

781011 19881

BL2

Flange Fastener with Screw

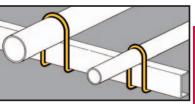
100

Note: This product is designed for positioning only. No load rating.

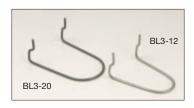


Lathers Channel

- Fastens EMT to 1¹/2" lathers channel.
- Static Load Capacity: 50 Lbs.
- · Finish: Zinc Plated

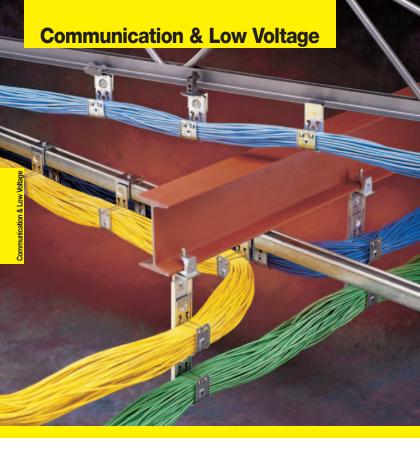


Conduit Fasteners





UPC/Part Number	Catalog Number	EMT Conduit Size	Box Qty.
781011 19902	BL3-8	1/2"	100
781011 19903	BL3-12	3/4"	100
781011 19904	BL3-16	1"	100
781011 19905	BL3-20	1 ¹ /4"	100



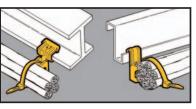








- Supports cable ties up to ⁹/32" wide from flanges ¹/16" to ³/4" thick.
- 8" cable tie included.
- Simply installed with a hammer.



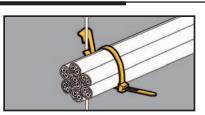
Cable Fasteners





UPC/Part	Catalog	Description	Box
Number	Number		Qty.
781011 19970	BE-2-4-CT2	¹ /8" to ¹ /4"	100
781011 19971	BE-5-8-CT2	⁵ /16" to ¹ /2"	100
781011 19972	BE-9-12-CT2	⁹ /16" to ³ /4"	100
781011 19968	BF1-CT2	¹ /16" to ⁵ /32"	100
781011 19969	BF2-CT2	⁵ /32" to ¹ /4"	100

- Supports cable ties up to ⁹/₃₂" wide from drop wires.
- 8" cable tie included.





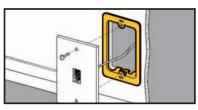




UPC/Part Number	Catalog Number	Description	Box Qty.
781011 02866	BW2-CT2	#12 wire thru 1/4" plain or threaded rod	100
781011 95603	BW6-CT2	³ /8" plain or threaded rod	100

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.





Cover Plate Mounting Brackets

- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Accepts Decora^{®*} style cover plates.
- Maximum 1¹/₄" drywall thickness.
- · Finish: Pre-galvanized



BB10



BB10-2







UPC/Part Number	Catalog Number	Description	Box Qty.
781011 18150	BB10	Single Gang Bracket	50
781011 18152	BB10-2	Mounts 2 Single Plates	10
781011 19878	BB10-3	Mounts 3 Single Plates	10
781011 19879 Patent # Re.33305	BB10-4	Mounts 4 Single Plates	10







Catalog Number

Description

Box Qty.

781011 18130

BB20

Double Gang Bracket 10

Patent # Re.33305

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.

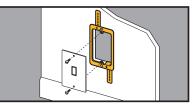


^{*} Decora® is a registered trademark of Leviton Corporation.

- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Maximum 1¹/₄" drywall thickness.

BB10L

· Finish: Pre-galvanized







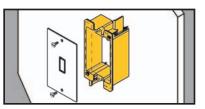


BB20L



UPC/Part Number	Catalog Number	Description	Box Qty.
781011 90895	BB10L	Single Gang Bracket	50
781011 90896	BB20L	Double Gang Bracket	50

- · Provides attachment base for low voltage outlets.
- · Replaces electrical box in Class 2 low voltage installations.
- Design eliminates sharp edges from bracket.
- · Maximum wall thickness: 3/4"









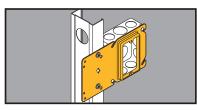
UPC/Part Number

Number

Description

782051 39235 BB₁₀P Single Gang Bracket

Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating,



Uni-Mount™ Box Support/Cover Plate Mounting Brackets

- Uni-MountTM offers a secure box support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Replaces electrical boxes in Class 2 low voltage installations.
- Guide tabs ensure consistent alignment on studs.
- · Finish: Pre-galvanized



Single Gang



UPC/Part Number	Catalog Number	Description	Box Qty.
782051 22768	BB40-08	¹ /2" Raise	50
782051 22771	BB40-10	5/8" Raise	50
782051 22772	BB40-12	³ / ₄ " Raise	50





Double Gang

UPC/Part Number	Catalog Number	Description	Box Qty.
782051 22773	BB45-08	¹ /2" Raise	50
782051 22774	BB45-10	⁵ /8" Raise	50
782051 22775	BB45-12	³ /4" Raise	50

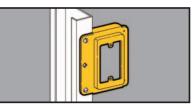
Read safety/installation instruction sheets in packages before use. These products are designed for positioning only. No load rating.



Communication & Low Vo

Communication & Low Voltage

- Locates communication outlets before drywall is installed.
- Replaces electrical box in Class 2 low voltage installations.
- For ¹/₂" and ⁵/₈" drywall applications.
- · Finish: Pre-galvanized



Cover Plate Mounting Bracket





Į	JPC/Part
	Number

Catalog Number

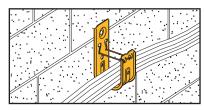
Description

Box Qty.

781011 19873

BB15

Single Gang Stud Bracket 25



Cable Hooks

- Supports Cat. 5/5e/6, fiber optic, innerduct and low voltage cabling requirements.
- Qwik-Latch[™] cable retainers included with hooks.
- Static Load Capacity: 30 Lbs.
- Finsih: Pre-Galvanized







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BCH21

c(UL)us



BCH32



BCH64

UPC/Part Number	Catalog Number	Hook Size	Capacity Up To	Box Qty.
782051 28060	BCH12	3/4"	16 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 10 CAT6	50
781011 04713	BCH21	1 ⁵ /16"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6	50
781011 04717	BCH32	2"	80 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6	50
781011 04721	BCH64	4"	300 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6	25

Patent #5961081

For special finish colors see page 151

(See pages 234-235 for technical data.)





 Powder coated cable hooks are available in a range of colors to help meet your cable identification requirements.

Painted Cable Hooks

- Standard riveted assemblies are available with painted cable hooks.
- Part numbers can be made by adding the paint color suffix after the cable hook part number.
- Minimum order quantity 500 pieces.
- Standard lead time is 5-10 working days.

Bright White - BW Brown - BR Computer White - CW Equipment Blue - BL Flat Black - FB Green - GR Orange - OR Regal Red - RR Safety Yellow - YL Telcom Gray - TG

Part # Example: Painted Cable Hook Part Number - BCH32BW Painted Cable Hook Assembly - BCH32BW-U24

- Exclusive Qwik-LatchTM retainers are included on all cable hook purchases.
- Provides secure containment of cables and offers quick open/close feature to add or remove cables.
- · Finish: Pre-galvanized

Patent #5961081





Replacement Cable Retainers



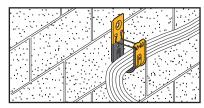
Retainer in open position



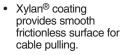
Push retainer down to lock

UPC/Part Number	Catalog Number	Cable Retainer For Hook Size	Box Qty.
781011 04847	BCHR21	1 ⁵ /16"	50
781011 04848	BCHR32	2"	50
781011 04849	BCHR64	4"	50





X-Hook Low Friction Cable Hooks



- Great for use in corners, drop-outs or direction change.
- X-Hook has lower coefficient of friction than Teflon[®].
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.



BCH64X

New Xylan® coating reduces cable friction. Ideal for pulling cable.



Cable rollers are too expensive and require installation and removal.

UPC/Part Number	Catalog Number	Hook Size	Capacity	Box Qty.
782051 29940	BCH21X	1 ⁵ /16"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6	50
782051 29941	BCH32X	2"	80 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6	50
782051 29942	BCH64X	4"	300 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6	25

Note: For cable hook assemblies with X-Hooks add an X to the part number.

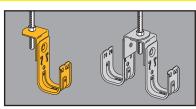
Example: BCH32X-U-2-4

(See pages 234-235 for technical data.)





- .505" diameter hole designed to support cable from ³/₈" or ¹/₂" threaded rod.
- Allows back-to-back and multi-tier installations.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



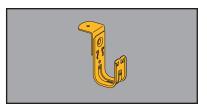


Cable To ATR Fasteners



UPC/Part Number	Catalog Number	Hook Size	Hole Size	Box Qty.
781011 04725	BCH21-AB	1 ⁵ /16"	.505" Diameter	50
781011 04729	BCH32-AB	2"	.505" Diameter	50
781011 04732	BCH64-AB	4"	.505" Diameter	25

- Designed for direct attachment to structures.
- Supports cable from 1/4" threaded rod.
- .265" diameter hole accepts anchors, screws or common nails.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- · Finish: Pre-galvanized





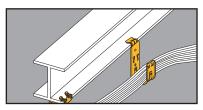
Angle Bracket Cable Fasteners



UPC/Part Number	Catalog Number	Hook Size	Hole Size	Box Qty.
782051 28089	BCH12-RB	3/4"	.265" Diameter	50
781011 04735	BCH21-RB	1 ⁵ /16"	.265" Diameter	50
781011 04738	BCH32-RB	2"	.265" Diameter	50
781011 04742	BCH64-RB	4"	.265" Diameter	25

(See pages 234-235 for technical data.)





Cable To Beam Fasteners

- Permits fast and easy installation on beam flanges.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



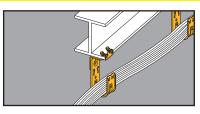


UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
782051 28067	BCH12-E-2-4	3/4"	¹ /8" to ¹ /4"	50
782051 28072	BCH12-E-5-8	3/4"	⁵ /16" to ¹ /2"	50
782051 28073	BCH12-E-9-12	3/4"	⁹ /16" to ³ /4"	50
781011 04803	BCH21-E-2-4	1 ⁵ /16"	1/8" to 1/4"	50
781011 04805	BCH21-E-5-8	1 ⁵ /16"	⁵ /16" to ¹ /2"	50
781011 04807	BCH21-E-9-12	1 ⁵ /16"	⁹ /16" to ³ /4"	50
781011 04825	BCH32-E-2-4	2"	¹ /8" to ¹ /4"	25
781011 04827	BCH32-E-5-8	2"	⁵ /16" to ¹ /2"	25
781011 04829	BCH32-E-9-12	2"	⁹ /16" to ³ /4"	25

(See pages 234-235 for technical data.)



- Permits fast and easy installation on beam flanges.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



Cable To Beam Fasteners



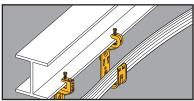
Allows 360° Rotation



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
782051 28062	BCH12-U-2-4	3/4"	¹ /8" to ¹ /4"	50
782051 28064	BCH12-U-5-8	3/4"	⁵ /16" to ¹ /2"	50
782051 28066	BCH12-U-9-12	3/4"	⁹ /16" to ³ /4"	50
781011 04809	BCH21-U-2-4	1 ⁵ /16"	¹ /8" to ¹ /4"	50
781011 04811	BCH21-U-5-8	1 ⁵ /16"	⁵ /16" to ¹ /2"	50
781011 04813	BCH21-U-9-12	1 ⁵ /16"	⁹ /16" to ³ /4"	50
781011 04831	BCH32-U-2-4	2"	¹ /8" to ¹ /4"	50
781011 04833	BCH32-U-5-8	2"	⁵ /16" to ¹ /2"	50
781011 04835	BCH32-U-9-12	2"	⁹ /16" to ³ /4"	50
781011 04864	BCH64-U-2-4	4"	¹ /8" to ¹ /4"	25
781011 04865	BCH64-U-5-8	4"	⁵ /16" to ¹ /2"	25
781011 04866	BCH64-U-9-12	4"	⁹ /16" to ³ /4"	25

(See pages 234-235 for technical data.)





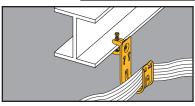
Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
 - Finish: Pre-galvanized



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
782051 28077	BCH12-C442	3/4"	¹ /8" to ⁵ /8"	50
781011 04823	BCH21-C442	1 ⁵ /16"	¹ /8" to ⁵ /8"	50
781011 04845	BCH32-C442	2"	¹ /8" to ⁵ /8"	50
781011 04868	BCH64-C442	4"	¹ /8" to ⁵ /8"	25



Cable To Beam Fasteners



- 360° rotation allows cable to run in any direction.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- · Finish: Pre-galvanized

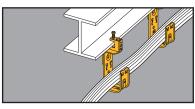
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UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
782051 41850	BCH12-C442A	3/4"	¹ /8" to ⁵ /8"	50
782051 41851	BCH21-C442A	1 ⁵ /16"	¹ /8" to ⁵ /8"	50
782051 41852	BCH32-C442A	2"	¹ /8" to ⁵ /8"	50
782051 41853	BCH64-C442A	4"	¹ /8" to ⁵ /8"	25

(See pages 234-235 for technical data.)



- 360° rotation allows cable to run in any direction.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



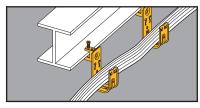


Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
782051 28074	BCH12-C2	3/4"	thru ¹ /2"	50
781011 04821	BCH21-C2	1 ⁵ /16"	thru ¹ /2"	50
781011 04843	BCH32-C2	2"	thru ¹ /2"	50
781011 04867	BCH64-C2	4"	thru ¹ /2"	25

- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- · Finish: Pre-galvanized





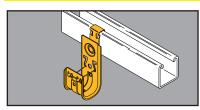
Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
782051 41303	BCH12-C1	3/4"	thru ¹ /2"	50
781011 95578	BCH21-C1	1 ⁵ /16"	thru ¹ /2"	50
781011 95560	BCH32-C1	2"	thru ¹ /2"	50
782051 41304	BCH64-C1	4"	thru ¹ /2"	25

(See pages 234-235 for technical data.)





Cable Hook To Strut Attachment

- BSC4 provides a simple snap-on attachment to strut, eliminating the need for tools or drilling.
- Great for retrofit applications.
- Load Capacity: 30 Lbs.
- · Finish: Pre-galvanized

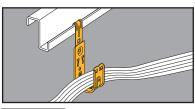


UPC/Part Number	Catalog Number	Cable Hook Size	Box Qty.
782051 46573	BCH12-SC4	3/4"	50
782051 46574	BCH21-SC4	1 ⁵ /16"	50
782051 465745	BCH32-SC4	2"	50
782051 465746	BCH64-SC4	4"	25

(See pages 234-235 for technical data.)



- Supports cable from vertical flanges.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



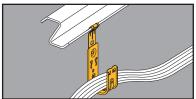


Cable To Flange Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
782051 28078	BCH12-F3	3/4"	¹ /16" to ¹ /4"	50
781011 04815	BCH21-F3	1 ⁵ /16"	¹ /16" to ¹ /4"	50
781011 04837	BCH32-F3	2"	¹ /16" to ¹ /4"	50
781011 04869	BCH64-F3	4"	¹ /16" to ¹ /4"	25

- Supports cable from angled flanges.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized





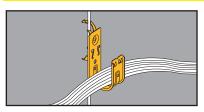
Cable To Flange Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
782051 28079	BCH12-F4	3/4"	¹ /16" to ¹ /4"	50
781011 04817	BCH21-F4	1 ⁵ /16"	¹ /16" to ¹ /4"	50
781011 04839	BCH32-F4	2"	¹ /16" to ¹ /4"	50
781011 04870	BCH64-F4	4"	¹ /16" to ¹ /4"	25

(See pages 234-235 for technical data.)





Cable To Wire and Rod Fasteners



- Supports cable from #12 wire thru ³/8" threaded rod.
- Qwik-Latch cable retainer included with each hook.
- W2 series attaches to #12 wire thru ¹/₄" plain or threaded rod.
- W6 series attaches to ³/8" plain or threaded rod.
- Static Load Capacity: 25 Lbs.
- Finish: Pre-galvanized



UPC/Part Number	Catalog Number	Description	Box Qty.
782051 28081	BCH12-W2	3/4"	50
781011 04819	BCH21-W2	1 ⁵ /16"	50
781011 04841	BCH32-W2	2"	50
782051 28082	BCH12-W6	3/4"	50
781011 95567	BCH21-W6	1 ⁵ /16"	50
781011 95569	BCH32-W6	2"	50

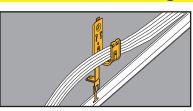
(See pages 234-235 for technical data.)



Communication & Low Vo

Communication & Low Voltage

- Supports cable above ceiling grid and allows 360° rotation.
- Provides compliance with the EIA/TIA requirements.
- Permits dropwire attachment if required.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



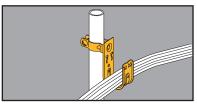
Cable To T-Bar Fasteners





UPC/Part Number	Catalog Number	Description	Box Qty.
782051 28083	BCH12-A28	3/4"	50
781011 04857	BCH21-A28	1 ⁵ /16"	50
781011 04858	BCH32-A28	2"	50

(See pages 234-235 for technical data.)

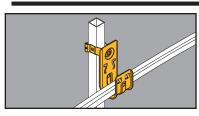


Cable To Floor **Support Fasteners**



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Floor Post Size	Box Qty.
782051 28085	BCH12-L1410	3/4"	1" O.D.	50
781011 04851	BCH21-L1410	1 ⁵ /16"	1" O.D.	50
781011 04855	BCH32-L1410	2"	1" O.D.	50
781011 04871	BCH64-L1410	4"	1" O.D.	25



Cable To Floor Support **Fasteners**

c(UL)us



- Supports cable from square computer floor post.
- Organizes cable off the floor for a neat installation.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Floor Post Size	Box Qty.
782051 28086	BCH12-G-8-12	3/4"	1" Square	50
781011 72487	BCH21-G-8-12	1 ⁵ /16"	1" Square	50
781011 72489	BCH32-G-8-12	2"	1" Square	50
781011 72491	BCH64-G-8-12	4"	1" Square	25

(See pages 234-235 for technical data.)

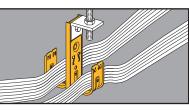


Communication & Low V

Communication & Low Voltage

- Factory assembled multi-tier fasteners speed up installation.
- Unique design prevents hook and assembly rotation when pulling cable.
- All support bars furnished in 6063-T6 aluminum.
- · Shown with optional BCHK2 kit.
- Qwik-Latch cable retainer included with each hook.
- Static Load Capacity: (per hook) 30 Lbs.
- Finish: Pre-galvanized

1D



Double-Sided Multi-Tier Cable Fasteners





2D

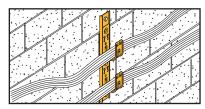


UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
781011 04758	BCH21-1D	1 ⁵ /16"	1 Tier, 2-Sided, 5 ¹ /2" High	20
781011 04762	BCH32-1D	2"	1 Tier, 2-Sided, 6 ³ /16" High	25
781011 04874	BCH64-1D	4"	1 Tier, 2-Sided, 9" High	10
781011 04766	BCH21-2D	1 ⁵ /16"	2 Tier, 2-Sided, 9 ¹ / ₄ " High	10
781011 04770	BCH32-2D	2"	2 Tier, 2-Sided, 11" High	10
781011 04875	BCH64-2D	4"	2 Tier, 2-Sided, 18 ¹ / ₄ " High	10

Patent #5961081

(See pages 234-235 for technical data.)





Single-Sided Multi-Tier Cable Fasteners





- Factory assembled multi-tier fasteners speed up installation.
- Available in two-six tier assemblies.
- Unique design prevents hook and assembly rotation when pulling cable.
- Qwik-Latch cable retainer included with each hook.
- All support bars furnished in 6063-T6 aluminum.
- Static Load Capacity: 30 Lbs. (per hook)

3S

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UPC/Part Number	Catalog Number	Hook Size Description Box Qty.
781011 04773	BCH21-2S	1 ⁵ /16" 2 Tier, 1-Sided, 10 11" Overall Height
781011 04776	BCH32-2S	2" 2 Tier, 1-Sided, 10 12 ³ /4" Overall Height
781011 95300	BCH64-2S	4" 2 Tier, 1-Sided, 10 19 ⁵ /16" Overall Height
781011 04779	BCH21-3S	1 ⁵ /16" 3 Tier, 1-Sided, 10 14 ³ /4" Overall Height
781011 04782	BCH32-3S	2" 3 Tier, 1-Sided, 10 17 ¹ /2" Overall Height
781011 95303	BCH64-3S	4" 3 Tier, 1-Sided, 10 28 ¹ /16" Overall Height

Patent #5961081

(See pages 234-235 for technical data.)



6S

5S



4S





UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
781011 04785	BCH21-4S		4 Tier, 1-Sided, 18 ¹ /2" Overall Heigl	10 ht
781011 04788	BCH32-4S	2"	4 Tier, 1-Sided, 21 ³ /4" Overall Heigl	10 ht
781011 97872	BCH64-4S	4" 36	4 Tier, 1-Sided, 6 ¹³ /16" Overall Heiç	10 ght
781011 04791	BCH21-5S		5 Tier, 1-Sided, 21 ³ /4" Overall Heigl	10 ht
781011 04794	BCH32-5S	2"	5 Tier, 1-Sided, 27" Overall Height	10
781011 04797	BCH21-6S	1 ⁵ /16"	6 Tier, 1-Sided, 26" Overall Height	10
781011 04800	BCH32-6S	2" 3	6 Tier, 1-Sided, 31 ³ /4" Overall Heigl	10 ht

(See pages 234-235 for technical data.)

Patent #5961081





Shown with BRC5 Brackets



Shown with Cable Hooks

Multi-Tier Support Bar

- The BCH-HBA combines a tiered support bar and angle bracket into one piece.
- More flexibility! The BCH-HBA can be supported from ³/16", ¹/4", ⁵/16" or ³/8" rod.
- Mounts up to three BCH21 or BCH32 cable hooks or two BCH64 cable hooks per side.
- Mounts up to three BRC5 MC/AC cable support brackets per side.
- · Load Capacity: 180 lbs.



UPC/Part Number Catalog Number

Description

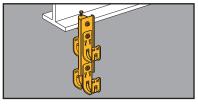
Box Qty.

782051 43819

BCH-HBA

Multi-Tier Support Bar

40



Multi-Tier Cable Hook Kits



 Support bars furnished in 6063-T6 aluminum.



UPC/Part Number Catalog Number

Description

Qty.

781011 99572

BCH-HB21

Support Bar for BCH21 and BCH32

BCH21 and BCH32 8¹/₄" long with .281Ø holes

781011 99574

BCH-HB64

Support Bar for BCH64

20

13⁵/16" long with .281Ø holes

(See pages 234-235 for technical data.)



Multi-Tier Attachment Kits

 BCHK1 includes: Beam clamp (B444-¹/₄) and ¹/₄"-20 x ¹/₂" hex head cap screw



BCHK1

 BCHK2 includes: Angle bracket (.320"Ø and .390"Ø holes) and 1/4"-20 x 1/2" hex head cap screw



BCHK2

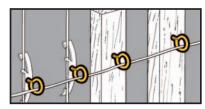
 BCHK3 includes:
 1 each BCHK1 Kit and BCHK2 Kit



ВСНК3

UPC/Part Number	Catalog Number	Kit Description	Flange Thickness	Box Qty.
781011 04872	BCHK1	Beam Clamp	Thru ¹ /2"	10
781011 04860	ВСНК2	Angle Bracket		10
781011 04873	вснкз	Beam Clamp with Angle Bracket (swivels 360°)	Thru ¹ /2"	10





Threaded Bridle Rings

 Supports low voltage communication cables from beams or rods when used with other fasteners.

 Ultimate Static Load Capacity: 50 Lbs.

Finish: Zinc Plated



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UPC/Part Number	Catalog Number	Ring Size	Thread Size x Thread Length	Box Qty.	
781011 19550	BR-8-T	1/2"	#10-24 x ⁹ /16"	100	
781011 19555	BR-12-T	3/4"	#10-24 x ⁹ /16"	100	
781011 19560	BR-20-T	11/4"	#10-24 x ⁹ /16"	100	
781011 19570	BR-32-T	2"	#10-24 x ⁹ /16"	100	
781011 19565	BR-20-4T	1 ¹ /4"	¹ / ₄ "-20 x ⁹ / ₁₆ "	100	
781011 19575	BR-32-4T	2"	¹ /4"-20 x ⁹ /16"	100	
781011 19889	BR-64-4T	4"	¹ /4"-20 x ⁹ /16"	50	



Lag Screw for Wood Beams

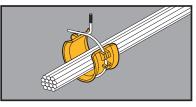


UPC/Part Number	Catalog Number	Ring Size	Thread Size x Thread Length	Box Qty.
781011 19875	BR-16-3W	1"	⁹ /16" x ⁹ /16"	100
781011 19886	BR-24-4W	1 ¹ /2"	1/4" x ²⁷ /32"	100
781011 19876	BR-32-4W	2"	1/4" x 7/8"	100



- The convenience of a bridle ring with the cable-bearing surface of a hook.
- 2" saddle is available separately. Can be easily attached before or after cable installation.

BRS-32A





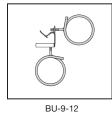
BRS-64A

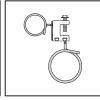


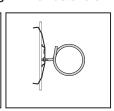
BRS-32

UPC/Part Number	Catalog Number	Thread Size x Thread Length/ Description	Box Qty.
7820511 22761	BRS-32A	¹ /4"-20 x ⁷ /8" 2" Ring Assembly.	50
7820511 22762	BRS-64A	¹ /4"-20 x 1" 4" Ring Assembly.	25
7820511 22759	BRS-32	2" Saddle Only	50

Also available for use with the following B-Line Fasteners.

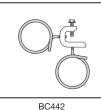




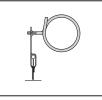


BC1

BW2

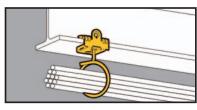






BH4-F3

BA5-4T



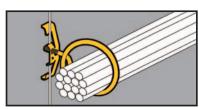
Bridle Ring/Beam Fastener Assy.

- Supports low voltage communication cables from beam flanges ¹/₈" to ³/₄" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity:
 15 lbs.





UPC/Part Number	Catalog Number	Description	Box Qty.
781011 02921	BR-32-4T-U-2-4	1/8" to 1/4"	50
781011 02923	BR-32-4T-U-5-8	⁵ /16" to ¹ /2"	50
781011 02924	BR-32-4T-U-9-12	⁹ /16" to ³ /4"	50



Bridle Ring/Rod & Wire Fastener Assy.

- Supports low voltage communication cables from drop wire.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.





UPC/Part

Number	Number	Description	Qty.
781011 02929	BR-32-4T-W2	#12 Wire Thru 1/4" Plain or	50
		Threaded Rod	

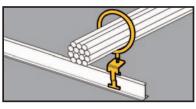
Catalog



Communication & Low Vo

Communication & Low Voltage

- Supports low voltage communication cables above the T-Bar.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- For positioning only -No Load Rating



Bridle Ring/T-Bar Fastener Assembly

N

UPC/Part Number

Catalog Number

Description

Box Qty.

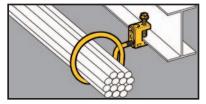
781011 02934

BR-32-4T-A6

2" Ring Size

50

- Supports low voltage communication cables from beam flanges thru ¹/₂" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity: 15 lbs.



Bridle Ring/Beam Fastener Assembly





UPC/Part Number Catalog Number

Description

Box Qty.

781011 02937

BR-32-4T-C1

2" Ring Size

50





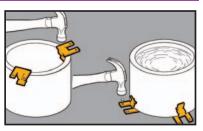








- Allows for rigid attachment of pipe sleeves to wall and floor forms for concrete pouring.
- Accommodates Schedule 40, Schedule 80, or ⁵/16" and smaller wall thickness.



Pipe Sleeve Fasteners



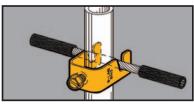
UPC/Part Number	Catalog Number	Sleeve Diameter	Wall Thickness	Box Qty.
781011 18285	BD40	All Dia.	⁵ /16" & Under	100
781011 18285	BD40	2" to 6"	Schedule 40 Pipe	100



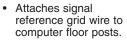


UPC/Part Number	Catalog Number	Sleeve Diameter	Wall Thickness	Box Qty.
781011 18300	BE-5-8	6"	Schedule 80 Pipe	100
781011 18300	BE-5-8	8" to 10"	Schedule 40 Pipe	100
781011 18305	BE-9-12	9" to 14"	Schedule 80 Pipe	100





Reference Wire Fasteners



- Fits #8 thru #4 stranded wire. (.146" O.D. thru .232" O.D.).
- Fits ³/4" to 1" round or square posts.





UPC/Part Number Catalog Number

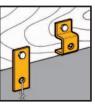
Description

Box Qty.

781011 01659

BM5

Single Reference Grid Wire Fastener 100





- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



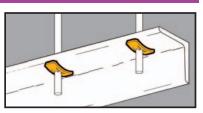
BD4

BA28B

UPC/Part Number	Catalog Number	Description	Box Qty.
781011 01686	BD2	Flat Bracket	100
781011 18280	BD4	Offset Bracket	100
781011 01449	BA28B	Angle Bracket	50



- Push Nuts designed for use with plain rod.
- "U" Nuts provide 1/4"-20 thread impression for unthreaded hole.
- No installation tools required.



Accessory Nuts



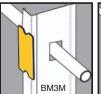
BN-2, BN-4, BN-6 Push Nuts

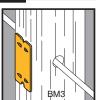


BN1 "U" Nuts With Thread Impression

UPC/Part Number	Catalog Number	Rod/Wire Size	Static Load Capacity	Box Qty.
781011 19115	BN-2	#8 Wire	100 lbs. thru ³ /8" hole	100
781011 19120	BN-4	¹ /4" Plain Rod	100 lbs. thru ³ /8" hole	100
781011 19125	BN-6	³ /8" Plain Rod	200 lbs. thru 1/2" hole	100
781011 19110	BN1	¹ /4" Threaded Rod	50 lbs. on ⁹ /32" hole	100

- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- BM3M comes with industrial grade double stick tape on back for easy installation on metal stud.
- BM3 used on wood studs.
- · Complies with NEC Article 300-4.





Nail Plates





вмз





Just Peel Tape and Stick To Stud

UPC/Part Number	Catalog Number	Description	Box Qty.
782051 26251	вмзм	Nail Plate	100
781011 04927	вмз	Nail Plate	100







- KwikWire system replaces jack chain or ATR to support lighting, ductwork, cable tray, etc.
- Can be quickly installed around beams - No drilling required.
- Ideal for sloped ceilings - can hang objects at up to 60° angles.
- Simple height adjustments are made by releasing locking tab, no tools required.
- Spools of wire can be cut to length in field, reducing waste and up front planning.



UPC/Part Number	Catalog Number	For Use With Wire Rope Diameters	Box Qty.
782051 40719	BKC100	¹ / ₁₆ " & ³ / ₃₂ "	100
782051 40723	BKC200	¹ /8" & ³ /16"	50











k*Wire*™ **Wire Rope** 7 x 19 7 x 7

Number	Dia.	Load - Lbs.	Qty.
BKW063 (1)	¹ /16"	96	500 ft
BKW094 (1)	3/32"	184	500 ft
BKW125 (1)	1/8"	340	500 ft
BKW188 (2)	³ /16"	840	250 ft
	Number BKW063 (1) BKW094 (1) BKW125 (1)	Number Dia. BKW063 (1) 1/16" BKW094 (1) 3/32" BKW125 (1) 1/8"	Number Dia. Load - Lbs. BKW063 (1) 1/16" 96 BKW094 (1) 3/32" 184 BKW125 (1) 1/8" 340

(1) Wire rope construction Type 7 x 7 (2) Wire rope construction Type 7 x 19 **Uncoated Galvanized Wire**



- B-Line KwikPak[™] includes a supply of kwik-clamps and a spool of wire rope.
- KwikPaks are shipped in a specially designed dispenser box to ease field cutting of wire.







UPC/Part Number	Catalog Number	Kit Includes	Box Qty.
782051 40749		BKC100 (100 pcs.) 6"Ø Wire Rope (500 t	1 ft.)
782051 40751		BKC100 (100 pcs.) 2"Ø Wire Rope (500 t	1 ft.)
782051 40761		BKC200 (50 pcs.) 3"Ø Wire Rope (500 f	1 t.)
782051 40763		BKC200 (50 pcs.) 6"Ø Wire Rope (250	1 ft.)

KwikWire™ Clamp Working Loads*

Clamp Part No.	Wire Rope Dia.	Lbs. Safety Factor 5
BKC100	¹ / ₁₆ " ³ / ₃₂ "	0-75 25-150
BKC200	3/32" 1/8" 3/16"	25-150 25-250 50-640

* Working loads shown are for hanging vertically.
For suspending at 15°, 30°, 45° or 60° angles from vertical use the following percentage of the working loads from the chart:
15° = 96%, 30° = 86%, 45° = 70%, 60° = 50%





- KwikWire hanger combines the versatility of a bolt with an adjustable wire rope solution.
- Can be quickly installed in existing anchors or metal brackets with a nut.
- Ideal for supporting light fixtures, wire basket cable tray, HVAC ducts, and sign/banner supports.
- See page 176 for wire rope spools.



UPC/Part Number	Thread Size	Wire Rope Dia. in. (mm)	Loading* SF5 lbs. (kg)
BKF100-4	1/4"-20	¹ /16" (1.5 mm) ³ /32" (2.5 mm)	45 (20kg) 90 (40kg)
BKF100-6	³ /8"-16	¹ / ₁₆ " (1.5 mm) ³ / ₃₂ " (2.5 mm)	45 (20kg) 90 (40kg)
BKFSK	Sampl	e Kit	



KwikWire[™] Hanger Instructions



Screw KwikWire Hanger into installed hanger support



Push cable wire up through the bottom of KwikWire Hanger



Continue pushing through until 1/4" minimum is extending out the side of the KwikWire Hanger



To adjust up - pull or push more cable wire through KwikWire Hanger



To adjust down - push up on bottom of KwikWire Hanger and allow cable wire to feed down



When hanging the cable wire is complete, cut off any excess cable wire if desired

Accessories







BKCP

B601-62 BKC

kwikWire Accessories

UPC/Part Number	Catalog Number	Description	Qty.
782051 40766	ВКСР	Air Duct Corner Protector	100
781011 56059	B601-62	Air Duct Support	50
782051 40297 <i>Danger: Never use</i>	BKCC cutters on energiz	Wire Rope Cutter ed circuits, wire, or cable.	1
Note: Additional acce BF Series (pgs.		E Series (pg. 79), BPNA Series (pg. 118)	

KwikWire™ System Recommendations:

- Do not exceed the safe working load of the products shown in their charts
- KwikWire™ Clamp load ratings are guaranteed only when used in combination with B-Line/Cooper supplied wire rope
- · Do not use for overhead lifting or hoisting
- Do not use if cable or components are visibly distorted or worn, remove damaged cable end prior to inserting in KwikWire™ Clamp
- Do not paint cable near working area of KwikWire Clamp connector
- Do not apply lubricant
- · Keep product clean and free of dirt
- · Do not use on coated wire rope
- Do not use in chlorinated or caustic atmospheres
- For use in dry locations
- Cooper's BKCC tool is recommended for cutting wire rope to prevent fraying
- For use on vertical applications only

Application Photos







Read safety/installation instruction sheets in packages before use.



Accessories



UPC/Part Number	Catalog Number	Description	Box Qty.
781011 01687	SHHMS ¹ /4 x ¹ /2	¹ / ₄ "-20 x ¹ / ₂ " Slotted Hex Head	100
		Machine Screw	



UPC/Part	Catalog	Description	Box
Number	Number		Qty.
781011 42103	MSQN ¹ /4	1/4"-20 Machine Square Nut	100



UPC/Part	Catalog	Description	Box
Number	Number		Qty.
781011 10675	BWHS-9	Sheet Metal Screw #8 x ⁹ /16"	1000

Note: BWHS-9 can be used with all fasteners requiring attachments with sheet metal screws.



UPC/Part Number	Catalog Number	Description	Qty.
781011 04925	BWHS-9D	#8 x ¹ /2" Self-Drilling	1000
		Sheet Metal Screw	

Note: BWHS-9 can be used with all fasteners requiring attachments with sheet metal screws except BB2-16, BB2-16D, BB2-24 & BB2-24D.











Glossary

			,
Prefix - Description	Screw Dia.	Length	Suffix
ACB - Concrete Anchor Bolt	4 - #4	75 - ³ /4"	AN - Acorn Nut
ACPD - Bang-IT	6 - #6	81 - 13/16"	CH - Combo Head
ACPW - Wood-Knocker	8 - #8	87 - 7/8"	F - Flat
ACS - Concrete Screw	10 - #10	100 - 1"	FL - Flanged
ADA - Drive Anchor	12 - ¹ /8"	118 - 1 ³ /18"	H - Hex
ADE - Double Expansion Anchor	18 - ³ /16"	125 - 1 ¹ /4"	HN - Hex Nut
ADH - Hollow-Base Drop-IN	25 - ¹ /4"	150 - 1 ¹ /2"	HS - Hole Saw
ADI - Drop-In	31 - ⁵ /16"	175 - 1 ³ /4"	K - Kit
ADM - Mini Drop-In	37 - ³ /8"	187 - 1 ⁷ /8"	M - Mushroom
ADN - Drive Nail	50 - ¹ /2"	200 - 2"	OH - Oval Head
AMS - Machine Screw	62 - ⁵ /8"	225 - 2 ¹ /4"	PH - Pan Head
APC - Conical Anchor	75 - ³ /4"	250 - 2 ¹ /2"	RH - Rod Hanger
APD - Plastic Driller	87 - ⁷ /8"	275 - 2 ³ /4"	RS - Slotted Round
APDM - Plastic Driller - Mini		300 - 3"	Head
APH - Plastic Hollow Wall Ancho	r	325 - 3 ¹ /4"	SS4 - 304 Stainless
APS - Plastic Screw Anchor		350 - 3 ¹ /2"	Steel
ARC - Rapid Rod Concrete		375 - 3 ³ /4"	T - Tool
ARS - Rapid Rod Steel		400 - 4"	WH - Wire Hanger
ARW - Rapid Rod Wood		425 - 4 ¹ /4"	
ASA - Sleeve Anchor		450 - 4 ¹ /2"	
ASE - Single Expansion Anchor		500 - 5"	
ATB - Toggle Bolt		525 - 5 ¹ /4"	
ATM - Self-Tapping Machine		550 - 5 ¹ /2"	
Screw Anchor		600 - 6"	
AWA - Wedge Anchor		700 - 7"	
AWSD - Seismic Wedge Anchor			
AWS - Wall Screw			

Read safety/installation instruction sheets in packages before use.

AZD - Zinc Driller AZDM - Zinc Driller-Mini

Rapid Rod Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Steel rapid rods can be installed with a screw gun or hammer drill.
- · UL & FM approved.
- · Made of Zinc Plated carbon steel.

Rapid Rod Hangers Steel

Steel Rapid Rod - Data					
Point Style	#3	#5			
Self-Drilling Range (in.)	20 ga ³ /16	3/16 - 1/2			
Screw Size (UNC) *	1/4"-20	1/4"-20			
Thread Length (in.) *	1 ³ /16	31/32			

^{*} Dimensions for self-drilling (embedded) portion of anchor.

Steel Ra	Steel Rapid Rod - Load Data						
Rod/ Anchor		Mir	nimum Ste	el Gauge	Thickness		
Size	20 (.036")	18 (.048")	16 (.060")	14 (.075")	12 (.105")	³ /16"	1/4"
1/4	100	155	245	290	390	800	1260
1/4 w/nut	390	390	440	440	510	960	510
3/8	100	155	245	290	390	490	490
3/8 w/nut	365	365	365	365	365	365	365
1/2	120	175	230	390	510	820	1260

Loads shown for ASTM A36 steel beams and ASTM A572 steel purlins include a safety factor of 4.

For UL & FM listings, steel rapid rod must be installed with a retaining nut. UL & FM load rating for ³/8" rapid rod is 365 lbs. and can support up to a maximum 4" pipe.

UL & FM load rating for $^{1}/_{2}$ " rapid rod is 900 lbs. and can support up to a maximum 6" pipe.



Rapid Rod Hangers



UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
Steel Rod Hange	r - Point Style #3 Fo	r Purlir	IS	
782051 53317	ARS-25-100	1/4"	¹ /4" X 1"	100
782051 53318	ARS-37-200	3/8"	¹ /4" X 2"	100
782051 53320	ARS-37-100HN **	3/8"	1/4" X 1" w/nuts	100
782051 53321	ARS-37-150	3/8"	¹ /4" X 1 ¹ /2"	100
782051 53322	ARS-37-150HN **	3/8"	¹ /4" X 1 ¹ /2" w/nuts	100
Steel Rod Hange	r - Side Mount - Poir	t Style	#3 For Purlins	
782051 53323	ARS-25-100SW	1/4"	¹ /4" X 1"	100
782051 53324	ARS-37-100SW	3/8"	¹ /4" X 1" w/nuts	100
Steel Rod Hange	r - Point Style #5 Fo	r Bean	ns	
782051 53325	ARS-25-150HD	1/4"	#12-24 X 1 ¹ /2"	100
782051 53326	ARS-37-150HDHN	**3/8"	#12-24 X 1 ¹ /2" w/nuts	100

^{**} For UL & FM listings, steel rapid rod should be installed with a retaining nut.

ARS-50-150HDHN **1/2" #12-24 X 11/2" w/nuts 100

782051 53327

UPC/Part Number	Catalog Number	Tool Description	Box Qty.
Tool			
782051 53287	7187	Universal Steel & Wood Socket	1

Rapid Rod Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Wood rapid rods can be installed with a screw gun or hammer drill.
- Concrete rapid rods can be installed with an adjustable torque, battery powered screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers - Concrete

Concrete Rapid Rod - Data	1/4"	3/8"	1/2"
ANSI Drill Bit (in.)	1/4	1/4	3/8
Thread Length (in.)	1 ¹ /8	1 ³ /8	21/2
Min. Embedment Depth (in.)	1 ¹ /4	1 ¹ /2	2 ³ /4
Load Capacity Tension (lbs.) *	485	650	1510
Load Capacity Shear (lbs.) *	610	660	1580

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory. FM approved load capacity for ³/₈" anchor is 365 lbs., maximum 4" pipe size. FM approved load capacity for ¹/₂" anchor is 950 lbs., maximum 8" pipe size.

Rapid Rod Hangers - Wood

Wood Rapid Rod - Data	1/4" Thread Forming	3/8" Thread Forming
Pre-Drill Diameter (in.)	1/8	1/8
Point Style	Type 17	Type 17

Wood Rapid Rod - Embedment & Load Data					
Rod/Anchor					
Size	Embedment Depth	Fir	Pine	Spruce	
1/4	1"	170	160	160	
3/8	2"	375	375	375	
1/2	2 ¹ /2"	665	775	775	

Minimum load ratings are based on a safety factor of 4.

UL approved load capacity for 3/8" rod sizes and 1/4" screw size is 260 lbs., maximum 3" pipe. UL approved load capacity for 3/8" rod sizes and 3/8" screw size is 375 lbs., maximum 4" pipe. FM approval only applies to 3/8" x 21/2" screw size. Approved for 365 lbs., up to 4" pipe.



Rapid Rod Hangers



782051 53290

782051 53360

782051 53361

7198

5874

5866



UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.	
Concrete Rod Ha	anger - ANSI Wedge	-Bolt OT	Thread Shank	Style	
782051 53328	ARC-25-125	1/4"	¹ /4" X 1 ¹ /4"	100	
782051 53329	ARC-37-150	3/8"	¹ /4" X 1 ¹ /2"	100	
782051 53330	ARC-50-275	1/2"	³ /8" X 2 ³ /4"	50	
For side mount con with ¹ /4" drill bit.	crete applications use	ARW-25-1	00SW or ARW-3	7-200SW	
UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.	
Wood Rod Hang	er - Point Style Type	e 17			
782051 53331	ARW-25-200	1/4"	1/4" X 2"	100	
782051 53332	ARW-37-100	3/8"	¹ /4" X 1"	100	
782051 53333	ARW-37-200	3/8"	1/4" X 2"	100	
782051 53334	ARW-37-250	3/8"	3/8" X 2 ¹ /2"	100	
782051 53335	ARW-50-250	1/2"	³ /8" X 2 ¹ /2"	100	
Wood Rod Hange	er - Side Mount - P	oint Style	Type 17		
782051 53336	ARW-25-100SW	1/4"	¹ /4" X 1"	100	
782051 53337	ARW-37-200SW	3/8"	1/4" X 2"	100	
UPC/Part Number	Catalog Number		od ize	Box Qty.	
Tools					
782051 53287			el & Wood Socke		
782051 53288	7195		crete Socket	1	
782051 53289	7197	³ /8" Concrete Socket 1			

Read safety/installation instruction sheets in packages before use.

1/2" Concrete Socket

Concrete Tapper Sleeve Assy.

1/4" X 6" Hex Shank SDS Drill Bit



1

1

Drop-in Anchors

- · Designed for use in solid concrete.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- UL & FM approved.
- Available in Zinc Plated finish or Stainless Steel.







Drop-In Anchors - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	40	80
Thread Size (UNC)	¹ /4"-20	³ /8"-16	¹ /2"-13	⁵ /8"-11	³ /4"-10
Min. Embedment Depth (in.)	1	1 ⁹ /16	2	21/2	3 ³ /16
Load Capacity Tension (lbs) *	495	1045	1440	1860	3600
Load Capacity Shear (lbs) *	530	1145	1600	3095	3920

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

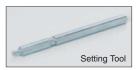
factor of 4.0. For additional loading information contact factory.					
UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Thread Depth	Box Qty.
Drop-in Anchor	- Smooth Wall -	Steel			
781011 03218	ADI-25	1/4"	1"	⁷ /16"	100
781011 03219	ADI-37	3/8"	1 ⁹ /16"	5/8"	50
781011 03220	ADI-50	1/2"	2"	¹³ /16"	50
781011 03221	ADI-62	5/8"	21/2"	1 ¹³ /16"	25
781011 03222	ADI-75	3/4"	3 ³ /16"	13/8"	10
Drop-in Anchor	- Smooth Wall -	Stainle	ss Steel		
781011 03223	ADI-25SS4	1/4"	1"	⁷ /16"	100
781011 03224	ADI-37SS4	3/8"	1 ⁹ /16"	5/8"	50
781011 03226	ADI-50SS4	1/2"	2"	¹³ /16"	50
781011 03227	ADI-62SS4	5/8" 3/4"	21/2"	1 ¹³ /16" 1 ³ /8"	25
781011 03228	ADI-75SS4		3 ³ /16"	19/8"	10
Drop-in Anchor	- Flanged - Stee	el			
782051 53297	ADI-25FL	1/4"	1"	⁷ /16"	100
782051 53298	ADI-37FL	3/8"	1 ⁹ /16"	5/8"	50
782051 53299	ADI-50FL	1/2"	2"	¹³ /16"	50
UPC/Part Number	Catalog Number		Rod Size	Pin Length	Box Qty.
Setting Tools					
781011 03229	6305		1/4"	39/64"	1
781011 03231	6307		3/8"	61/64"	1
781011 03232	6309		1/2"	1 ³ /16"	1
781011 03233	6311		5/8"	1 ⁵ /16"	1
781011 03234	6313		3/4"	1 ⁶¹ /64"	1
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Mini Drop-in Anchors

- Carbon steel machine bolt anchor for use in shallow embedment applications.
- Can be used in solid concrete and precast hollow core plank, in addition to post-tensioned concrete slabs and concrete pours over metal deck.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Setting tool scores flange when set to verify proper expansion
- · Available in zinc plated finish.





Mini Drop-In Anchors - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8
Max. Tightening Torque (ft-lbs)	3	5	10
Thread Size (UNC)	1/4"-20	³ /8"-16	¹ /2"-13
Min. Embedment Depth (in.)	5/8	3/4	1
Load Capacity Tension (lbs) *	350	530	840
Load Capacity Shear (lbs) *	415	1055	1220

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part	Catalog	Rod	Thread	Box
Number	Number	Size	Depth	Qty.
Mini Drop-in An	chor - Steel			
782051 53300	ADM-25	1/4"	3/8"	100
782051 53302	ADM-37	3/8"	13/ ₃₂ "	50
782051 53304	ADM-50	1/2"	5/8"	50
Setting Tools 782051 53301 782051 53303 782051 53305	6336 6323 6338	1/4" 3/8" 1/2"	 	1 1 1



Hollow Base Drop-in Anchors

- For use in hollow base materials such as hollow concrete block, brick with weep holes, and precast hollow core plank.
- · Can also be used in solid base materials.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- · Available in Zinc Plated finish.





Hollow Base Drop-In - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	5/8	3/4
Max. Tightening Torque (ft-lbs)	5	10	20
Thread Size (UNC)	1/4"-20	³ /8"-16	¹ /2"-13
Thread Length In Cone (in.)	3/8	5/8	3/4
Min. Embedment Depth (in.)	3/4	1	1 ¹ /2
Load Capacity Tension (lbs) *	285	520	1005
Load Capacity Shear (lbs) *	300	640	1005

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part	Catalog	Rod	Overall	Sleeve	Box
Number	Number	Size	Length	Length	Qty.
Hollow Base Dr	op-In				
782051 53291	ADH-25	1/4"	7/8"	⁵ /8"	100
782051 53293	ADH-37	3/8"	1 ⁵ /16"	¹⁵ /16"	50
782051 53295	ADH-50	1/ <u>2</u> "	1 ³ /4"	1 ¹ /4"	50
Setting Tools 782051 53292 782051 53294 782051 53296	9323 9343 9353	1/4" 3/8" 1/2"	 	 	1 1 1



Box

Qty.

100

Anchors

Concrete Screw Bolts

- For use in racking, shelving, material handling, structural anchorage, masonry and food & beverage facilities.
- · One piece heavy-duty anchor with a finished hex-head.
- · Fits standard fixture hole dimensions in fabricated steel.
- Fast installation and immediate loading reduces downtime.
- For proper performance, screw anchors must be installed with the corresponding bits. The bits have a matched tolerance range designed to provide optimum performance.



Concrete Screw Bolts - Data	1/4"	3/8"
ACB Drill Bit Size (in.)	1/4	3/8
Concrete Screw Tolerance Range (in.)	0.255 - 0.259	0.385 - 0.389
Min. Embedment Depth (in.)	1	1 ¹ /2
Load Capacity Tension (lbs) *	335	630
Load Capacity Shear (lbs) *	520	1170

^{*} Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.

For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

Anchor

Length

1/4" v 13/4"

Thread

_ength

15/g"

Catalog

Number

ACR-25-175

UPC/Part

Number

782051 53247

Screw Type Anchor - Steel

782051 53248 782051 53249	ACB-25-110 ACB-25-225 ACB-25-300	1/4" x : 1/4" x :	21/4"	2" 2 ³ /4"	100 100 100
782051 53250 782051 53251 782051 53252 782051 53253	ACB-37-175 ACB-37-250 ACB-37-300 ACB-37-400	³ /8" x ³	2 ¹ /2" < 3"	1 ¹ /2" 2 ¹ /4" 2 ³ /4" 3 ³ /4"	50 50 50 50
					15
UPC/Part Number	Catalog Number	Drill Size		Overal Length	
Number					
Number	Number				
Number Drill Bits - Strai	Number ght Shank Type	Size	Length	Length	
Number Drill Bits - Strai 782051 53254	Number ght Shank Type 1372 1380	Size	Length	Length	
Number Drill Bits - Strai 782051 53254 782051 53256	Number ght Shank Type 1372 1380	Size	Length	Length	

Note: Matched tolerance bits must be used for installation.



Concrete Screws

- Light to medium duty anchor for use in concrete, masonry block and brick base materials.
- Concrete screws are engineered with matched tolerance bits and installation tools to optimize performance.
- · High low thread design for greater stability and grip.
- No hole spotting required.
- One drill bit is packaged in each box of concrete screws.
- Blue fluorocarbon coating for corrosion resistance.



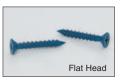


Straight Shank Drill Bit

SDS Hex Drill Bit



Hex Head - Data	³ /16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	⁵ /16
Head Height (in.)	7/64	9/64
Head Width (in.)	1/4	⁵ /16
Washer O.D. (in.)	11/32	13/32
Washer Thickness (in.)	1/32	1/32
Hex Driver (in.)	1/4	⁵ /16



Flat Head - Data	³ /16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	⁵ /16
Phillips Head O.D. (in.)	3/8	1/2
Phillips Head Height (in.)	9/64	3/16
Phillips Bit Size	2	3

Embedment	Nominal Anchor Dia. / Loading*			
Depth	3/16" Tension	3/16" Shear	¹ /4" Tension	1/4" Shear
1"	90	175	265	205
1 ¹ /4"	175	230	335	355
1 ³ /8"	215	230	370	385
1 ¹ /2"	255	230	405	355
1 ³ /4"	375	235	435	370

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.



Concrete Screws

UPC/Part Number	Catalog Number		S	ize	Box Qty.
Hex Head Concre	ete Screws				
781011 03342	ACS-18-125H		3/16" >	(1 ¹ /4"	100
781011 03343	ACS-18-175H		3/16" >	(1 ³ /4"	100
781011 03344	ACS-18-225H		³ /16" >	(2 ¹ /4"	100
781011 03346	ACS-18-275H		³ /16" >	(2 ³ /4"	100
781011 03347	ACS-18-325H		³ /16" >	(3 ¹ /4"	100
781011 03348	ACS-18-375H		³ /16" >		100
781011 03349	ACS-18-400H		³ /16"	X 4"	100
781011 03351	ACS-25-125H		1/4" X	1 ¹ /4"	100
781011 03352	ACS-25-175H		1/4" X	13/4"	100
781011 03353	ACS-25-225H			21/4"	100
781011 03354	ACS-25-275H			2 ³ /4"	100
781011 03356	ACS-25-325H			31/4"	100
781011 03357	ACS-25-375H			33/4"	100
781011 03358	ACS-25-400H		1/4"	X 4"	100
Flat Head Concre			27	e 44 (.))	400
782051 53259	ACS-18-125F			(1 ¹ /4"	100
782051 53260 782051 53261	ACS-18-175F ACS-18-225F		³ /16" > ³ /16" >		100
782051 53261 782051 53262	ACS-18-275F		³ /16" <i>\</i>		100 100
782051 53262	ACS-25-125F			11/4"	100
782051 53263 782051 53264	ACS-25-125F ACS-25-175F		,	13/4"	100
782051 53265	ACS-25-175F		,	2 ¹ /4"	100
782051 53266	ACS-25-275F			23/4"	100
	2 1 1		,		
UPC/Part Number	Catalog Number	Bit	Size	Usable Length	Box Qty.
Straight Shank D	rill Bits				
782051 53267	2782	5/32"	X 4 ¹ /2"	3"	1
782051 53269	2786	3/16"	X 4 ¹ /2"	3"	1
SDS Hex Drill Bits					
782051 53268	2793	5/20	" X 5"	3"	1
782051 53270	2796		" X 5"	3"	1
102031 33210	2190	9/16		<u> </u>	'
UPC/Part Number	Catalog Number		Descrip	tion	Box Qty.
Setting Tool					
781011 03453	2791	Conc	rete Scre	w Tool Kit	1



Wedge Expansion Anchors

- Heavy and medium duty all purpose anchor.
- For use in solid concrete and grout filled block.
- · Anchors can be installed through the fixture, no need for hole spotting.
- · Interlocking clip wedges prevent anchor spinning during installation.
- Wire hanger hole size 9/32" diameter, head height 3/4".
- UL & FM approved.

 Available in Zinc Plated Carbon Steel or Type 304 Stainless Steel.



Wedge Expansion Anchor - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8
Fixture Clearance Hole (in.)	5/16	⁷ /16	9/16	11/16
Thread Size (UNC)	1/4"-20	³ /8"-16	¹ /2"-13	5/8"-11
Washer O.D. (in.)	5/8	13/16	1 ¹ /16	13/4
Wrench Size	⁷ /16	9/16	3/4	¹⁵ /16
Max. Tightening Torque (ft-lbs)	8	28	60	90
Min. Embedment Depth (in.)	1 ¹ /8	1 ⁵ /8	2 ¹ /4	23/4
Load Capacity Tension (lbs) *	360	760	1390	2075
Load Capacity Shear (lbs) *	405	940	1700	2975

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.

Wire Hanger Wedge Anchor - Data	1/4"
ANSI Drill Bit Size (in.)	1/4
Min. Embedment Depth (in.)	1 ¹ /8
Head Height (in.)	3/4
Load Capacity Tension (lbs) *	360
Load Capacity Shear (lbs) *	405

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part	Catalog	Size	Hole	Box
Number	Number		Size	Qty.
Wire Hanger 781011 03106	AWA-25-200WH	¹ /4" X 2"	9/32"	100



Wedge Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Wedge Anchor				
781011 03068	AWA-25-175	1/4" X 13/4"	3/4"	100
781011 03069	AWA-25-175 AWA-25-225	1/4" X 2 ¹ /4"	1 ¹ /4"	100
781011 03070	AWA-25-325	1/4" X 3 ¹ /4"	2 ¹ /4"	100
781011 03071	AWA-37-225	3/8" X 2 ¹ /4"	11/4"	50
781011 03071	AWA-37-225 AWA-37-275	³ /8" X 2 ³ /4"	1 ·/4 1 ⁵ /8"	50
781011 03072	AWA-37-273 AWA-37-300	³ /8" X 3"	17/8"	50
782051 53364	AWA-37-350	³ /8" X 3 ¹ /2"	23/8"	50
781011 03074	AWA-37-375	3/8" X 3 ³ /4"	2 ⁵ /8"	50
781011 03075	AWA-37-500	³ /8" X 5"	3 ⁷ /8"	50
782051 53366	AWA-50-275	1/2" X 2 ³ /4"	13/8"	50
781011 03077	AWA-50-275 AWA-50-375	1/2" X 3 ³ /4"	2 ³ /8"	50
782051 45636	AWA-50-450	1/2" X 4 ¹ /2"	3 ¹ /8"	50
781011 03079	AWA-50-550	1/2" X 5 ¹ /2"	4 ¹ /8"	50
781011 03080	AWA-50-700	1/2" X 7"	5 ⁵ /8"	25
781011 03081	AWA-62-350	5/8" X 3 ¹ /2"	2"	25
781011 03081	AWA-62-450	⁹ / ₈ " X 4 ¹ / ₂ "	2 3"	25 25
781011 03083	AWA-62-500	5/8" X 5"	3 ¹ /2"	25
781011 03084	AWA-62-600	⁵ /8" X 6"	4 ¹ /2"	25
781011 03085	AWA-62-700	5/8" X 7"	5 ¹ /2"	25
Wedge Anchor -		70 70 7	0 12	
781011 03146	AWA-25-175SS4	1/4" X 13/4"	3/4"	100
781011 03147	AWA-25-175554 AWA-25-225SS4	1/4" X 21/4"	1 ¹ /4"	100
781011 03148	AWA-25-325SS4	1/4" X 3 ¹ /4"	2 ¹ /4"	100
781011 03149	AWA-37-225SS4	3/8" X 2 ¹ /4"	11/4"	50
781011 03149 781011 03150	AWA-37-225554 AWA-37-275SS4	⁹ / ₈ X 2 ¹ / ₄ ³ / ₈ " X 2 ³ / ₄ "	1 ·/4 15/8"	50 50
781011 03151	AWA-37-275554 AWA-37-300SS4	³ /8" X 3"	1 ⁹ /8"	50
782051 53365	AWA-37-350SS4	³ / ₈ " X 3 ¹ / ₂ "	2 ³ /8"	50
781011 03152	AWA-37-375SS4	3/8" X 3 ³ /4"	2 ⁵ /8"	50
781011 03153	AWA-37-500SS4	³ /8" X 5"	31/8"	50
781011 03154	AWA-50-275SS4	1/2" X 23/4"	13/8"	50
781011 03155	AWA-50-375SS4	1/2" X 3 ³ /4"	2 ³ /8"	50
782051 53367	AWA-50-450SS4	1/2" X 4 ¹ /2"	2 /6 3 ¹ /8"	50
781011 03157	AWA-50-550SS4	¹ /2" X 5 ¹ /2"	4 ¹ /8"	50
782051 53368	AWA-50-700SS4	1/2" X 7"	5 ⁵ /8"	25
782051 53369	AWA-62-350SS4	5/8" X 3 ¹ /2"	2"	25
782051 53370	AWA-62-450SS4	5/8" X 4 ¹ /2"	3"	25
782051 53779	AWA-62-500SS4	5/8" X 5"	3 ¹ /2"	25
782051 53371	AWA-62-600SS4	⁵ /8" X 6"	4 ¹ /2"	25
782051 43044	AWA-62-700SS4	⁵ /8" X 7"	5 ¹ /2"	25



Seismic Wedge Anchors

- Fully threaded, torque-controlled, wedge anchor which is designed for consistent performance in cracked and uncracked concrete.
- For use in concrete, structural sand lightweight concrete, and concrete over metal deck.
- · Nominal drill bit size is the same as the anchor diameter.
- ICC-ES listed, ESR-2502, Category 1
- Zinc plated carbon steel body with stainless steel expansion clip from premium performance.
- Qualified for seismic and wind loading.



Seismic Wedge Anchor - Data	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	7/16	9/16	11/16	13/16
Minimum Hole Depth (in.)	2 ⁵ /8	23/4	41/4	5
Minimum Concrete Thickness (in.)	4	41/2	53/4	7
Max. Tightening Torque (ft-lbs)	20	40	60	110
Min. Embedment Depth (in.)	23/8	21/2	37/8	41/2

For loading information, see ICC-ES ESR-2502.



Seismic Wedge Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Seismic Wedge	Anchor			
782051 53398	AWSD-37-300	³ /8" X 3"	1 ³ /4"	50
782051 53399	AWSD-37-350	³ /8" X 3 ¹ /2"	21/4"	50
782051 53400	AWSD-37-375	³ /8" X 3 ³ /4"	21/2"	50
782051 53401	AWSD-37-500	³ /8" X 5"	3 ³ /4"	50
782051 53402	AWSD-50-375	¹ /2" X 3 ³ /4"	2 ¹ /8"	50
782051 53403	AWSD-50-450	¹ /2" X 4 ¹ /2"	27/8"	50
782051 53404	AWSD-50-550	¹ /2" X 5 ¹ /2"	37/8"	50
782051 53405	AWSD-50-700	¹ /2" X 7"	5 ³ /8"	50
782051 53406	AWSD-62-475	⁵ /8" X 4 ³ /4"	27/8"	25
782051 53407	AWSD-62-500	⁵ /8" X 5"	31/8"	25
782051 53408	AWSD-62-600	⁵ /8" X 6"	41/8"	25
782051 53409	AWSD-62-700	⁵ /8" X 7"	5 ¹ /8"	25
782051 53410	AWSD-75-550	³ /4" X 5 ¹ /2"	31/4"	20
782051 53411	AWSD-75-625	³ /4" X 6 ¹ /4"	4"	20
782051 53425	AWSD-75-700	³ /4" X 7"	43/4"	20

Drive Anchor

- One-piece, tamper-proof vibration resistant anchor for use in concrete.
- Anchor is formed with an 's' shaped configuration at the working end of the anchor to create an expansion mechanism.
- Anchor is pre-expanded so no secondary tightening operation is required.
- · FM approved.
- · Made of Zinc Plated carbon steel.



Mushroom Head - Data	³ /16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	⁵ /16
Head Height (in.)	7/64	7/64
Head Size O.D. (in.)	⁷ /16	1/2
Min. Embedment Depth (in.)	7/8	7/8
Load Capacity Tension (lbs.) *	215	235
Load Capacity Shear (lbs.) *	330	470



Rod Hanger - Data	1/4"	3/8"
ANSI Drill Bit Size (in.)	3/16	1/4
UNC Thread Size	1/4"-20	³ /8"-16
Head Height (in.)	1/2	5/8
Head Size O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	1 ¹ /4	13/4
Load Capacity Tension (lbs.) *	315	500
Load Capacity Shear (lbs.) *	245	525



Wire Hanger - Data	³ /16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Tie-Wire Hole (in.)	3/16	9/32
Head Height (in.)	37/64	41/64
Head Width (in.)	⁹ / _{64 x} ⁷ / ₁₆	³ /16 x ⁹ /16
Min. Embedment Depth (in.) 1 ¹ /8	1 ¹ /8
Load Capacity Tension (lbs.)*	265	290
Load Capacity Shear (lbs.)*	240	330

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.



100

Anchors

Drive Anchors

UPC/Part	Catalog	Size	Box
Number	Number	55	Qty.
Mushroom Head			
782051 53271	ADA-18-100	³ /16" X 1"	100
782051 53272	ADA-18-125	³ /16" X 1 ¹ /4"	100
782051 53273	ADA-18-150	³ /16" X 1 ¹ /2"	100
782051 53274	ADA-18-200	³ /16" X 2"	100
782051 53275	ADA-18-250	³ /16" X 2 ¹ /2"	100
782051 53276	ADA-18-300	³ /16" X 3"	100
782051 53278	ADA-25-100	¹ /4" X 1"	100
782051 53279	ADA-25-125	¹ /4" X 1 ¹ /4"	100
782051 53280	ADA-25-150	¹ /4" X 1 ¹ /2"	100
782051 53281	ADA-25-200	1/4" X 2"	100
782051 53282	ADA-25-250	1/4" X 21/2"	100
782051 53283	ADA-25-300	1/4" X 3"	100
UPC/Part	Catalog	Head Size	Box
Number	Number	rieau Size	Qty.
Rod Hanger			
782051 53284	ADA-25RH	1/4"	100
782051 53286	ADA-37RH	3/8"	100
		,,,	
UPC/Part	Cotolog		Box
Number	Catalog Number	Head Size	Qty.
Wire Hanger			
782051 53277	ADA-18WH	3/16"	100
10-001 00-11	APA IOIIII	/10	100

Read safety/installation instruction sheets in packages before use.

1/4"



ADA-25WH

782051 53285

Sleeve Type Expansion Anchors

- For use in concrete and masonry substrates.
- Suitable for solid and hollow core materials.
- Fits standard fixture holes no need to undersize anchors for proper fit.
- Sleeve has 360° contact area and reduces concrete stress.
- UL & FM approved.
- Available in Zinc Plated Steel or Type 304 Stainless Steel.







Hex Nut (HN) Style

Acorn Nut (AN) Style

Slotted Round Head (RS) Style

Sleeve Type Expansion - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	5/16	⁷ /16	9/16	¹¹ /16	15/16
Plow Bolt Size (UNC)	#10-24	5/16"-18	³ /8"-16	¹ /2"-13	5/8"-11
Min. Embedment Depth (in.)	5/8	1 ⁵ /8	21/4	2 ¹ /4	21/4
Load Capacity Tension (lbs) *	155	670	1255	1465	2105
Load Capacity Shear (lbs) *	300	610	1055	1800	2900

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.







Wire Hanger (WH) Style

Sleeve Type Expansion - Data		Wire Hanger		
	1/4"	3/8"	1/2"	⁵ /16"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	⁵ /16
Fixture Clearance Hole (in.)	NA	NA	NA	1/4
Plow Bolt Size (UNC)	#10-24	⁵ /16"-18	³ /8"-16	1/4"-20
Coupling Height (in.)	7/8	1	1 ¹ /4	NA
Min. Embedment Depth (in.)	5/8	1 ⁵ /8	21/4	1 ¹ /2
Load Capacity Tension (lbs) *	155	670	1255	520
Load Capacity Shear (lbs) *	300	610	1055	380

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading go to www.cooperbline.com.





Sleeve Type Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Hex Nut Style				
781011 02995	ASA-37-187HN	3/8" X1 ⁷ /8"	1 ⁵ /8"	50
781011 02996	ASA-37-300HN	3/8" X 3"	15/8"	50
782051 53346	ASA-37-400HN	3/8" X 4"	1 5/8"	50
781011 02997	ASA-50-225HN	1/2" X 21/4"	21/8"	25
781011 02998	ASA-50-300HN	1/2" X 3"	21/4"	25
781011 02999	ASA-50-400HN	1/2" X 4"	21/4"	25
782051 53351	ASA-50-525HN	¹ /2" X 5 ¹ /4"	21/4"	25
781011 03002	ASA-50-600HN	¹ /2" X 6"	2 ¹ /4"	10
781011 03003	ASA-62-225HN	⁵ /8" X 2 ¹ /4"	21/8"	25
781011 03004	ASA-62-300HN	⁵ /8" X 3"	23/4"	25
781011 03005	ASA-62-425HN	⁵ / ₈ " X 4 ¹ / ₄ "	23/4"	10
781011 03006	ASA-62-600HN	⁵ /8" X 6"	2 ³ /4"	10
781011 03007	ASA-75-250HN	³ / ₄ " X 2 ¹ / ₂ "	21/8"	10
781011 03008	ASA-75-425HN	3/4" X 4 ¹ /4"	33/8"	10
781011 03009	ASA-75-625HN	³ /4" X 6 ¹ /4"	3 ³ /8"	10
Hex Nut Style -	Stainless Steel			
782051 53343	ASA-37-187HNSS4	³ /8" X 1 ⁷ /8"	1 ⁵ /8"	50
782051 53345	ASA-37-300HNSS4	3/8" X 3"	1 5/8"	50
782051 53347	ASA-50-225HNSS4	1/2" X 2 ¹ /4"	21/8"	25
782051 53349	ASA-50-300HNSS4	1/2" X 3"	21/4"	25
782051 53350	ASA-50-400HNSS4	1/2" X 4"	21/4"	25
782051 53352	ASA-62-425HNSS4	⁵ /8" X 4 ¹ /4"	23/4"	10
782051 53353	ASA-75-400HNSS4	3/4" X 4"	3 ³ /8"	10
Acorn Nut Style				
782051 53341	ASA-25-62AN	1/4" X 5/8"	1/2"	100
781011 02991	ASA-25-137AN	¹ /4" X 1 ³ /8"	11/8"	100
781011 02992	ASA-25-225AN	1/4" X 21/4"	1 ¹ /8"	100
Slotted Round F	lead Style			
782051 53338	ASA-25-112RS	1/4" X 1 ¹ /8"	1"	100
782051 53340	ASA-25-200RS	1/4" X 2"	1 ¹ /8"	100
UPC/Part Number	Catalog Number	Size	Drill Dia.	Box Qty.
Rod Hanger				
782051 53339	ASA-25-150RH	¹ /4" X 1 ¹ /2"	⁵ /16"	50
782051 53344	ASA-37-187RH	3/8" X 1 ⁷ /8"	3/8"	50
782051 53348	ASA-50-225RH	¹ / ₂ " X 2 ¹ / ₄ "	1/2"	25
Wire Hanger				
782051 53342	ASA-31-150WH	⁵ /16" X 1 ¹ /2"	⁵ /16"	100



Double Expansion Anchors

- For use in concrete, block, brick or stone.
- Double expansion anchor is particularly suited for base materials of questionable strength (job site tests are recommended).
- Internally threaded anchor for easy removability and service work.
- · Made of Zamac Alloy material.



Double Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	³ /8"-16	¹ /2"-13	⁵ /8"-11
Thread Length In Cone (in.)	1/2	5/8	3/4	7/8
Min. Embedment Depth (in.)	1 ¹ /4	1 ³ /4	21/4	21/2
Load Capacity Tension (lbs) *	415	875	1625	1750
Load Capacity Shear (lbs) *	405	1000	1540	2855

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Diameter	Anchor Length	Box Qty.
Double Expansion	on Anchor			
781011 03251	ADE-25	1/4"	1 ³ /8"	50
781011 03253	ADE-37	3/8"	2"	50
781011 03254	ADE-50	1/2"	21/2"	25
781011 03256	ADE-62	5/8"	2 ³ /4"	25



Single Expansion Anchors

- · For use in concrete, block, brick or stone.
- · Recommended for floor and wall attachments.
- · Not recommended for overhead applications.
- Internally threaded anchor for easy removability and service work.
- · Made of Zamac Alloy material.



Single Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	³ /8"-16	¹ /2"-13	⁵ /8" -11
Thread Length In Cone (in.)	⁵ /16	⁵ /16	⁷ /16	5/8
Min. Embedment Depth (in.)	1 ³ /8	1 ⁵ /8	21/2	23/4
Load Capacity Tension (lbs) *	500	725	1225	2050
Load Capacity Shear (lbs) *	405	950	1540	2855

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
Single Expansio	n			
781011 03245	ASE-25	1/4"	1 ⁵ /16"	50
781011 03247	ASE-37	3/8"	11/2"	50
781011 03248	ASE-50	1/2"	2 ¹ /16"	25
781011 03249	ASE-62	5/8"	25/8"	25



Wood Knocker Anchors

- Wood-Knocker concrete inserts are installed onto wooden forms used to support newly poured concrete floor slabs, roof slabs or walls.
- When the forms are stripped, the color-coded flange is visibly embedded in the concrete surface.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- · Lowest in-place cost.



Wood Knocker - Data	1/4"	3/8"	1/2"	5/8"	3/4"
Insert Thread Length (in.)	3/8	5/8	¹¹ /16	¹⁵ /16	1 ¹ /8
Plastic Flange Diameter (in.)	1 ³ /8	1 ³ /8	1 ³ /8	1 ⁵ /8	1 ⁵ /8
Thread Size (UNC)	1/4"-20	³ /8"-16	¹ /2"-13	⁵ /8" -11	³ /4"-10
Overall Length (in.)	1 ⁷ /8	1 ⁷ /8	1 ⁷ /8	1 ⁷ /8	1 ⁷ /8
Min. Insert Spacing (in.)	9	9	9	12	12
Min. End Distance (in.)	6	6	6	9	9
Load Capacity Tension (lbs) *	930	1200	1200	1160	1160
Load Capacity Shear (lbs) *	370	1330	1840	2800	2800

^{*} Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum embedment depth is 2".

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
Wood Knocker				
782051 31147	ACPW-25	1/4"	Brown	100
782051 31149	ACPW-37	3/8"	Green	100
782051 31151	ACPW-50	1/2"	Yellow	100
782051 31152	ACPW-62	5/8"	Red	50
782051 31153	ACPW-75	3/4"	Purple	50





Bang-It Anchors

- Bang-It concrete inserts are designed for installation in and through metal composite deck used to support newly poured concrete floors or roof slabs.
- After installation, the protective sleeve of the insert protrudes below the surface of the deck, allowing overhead attachment of threaded rod.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is bing installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- · Lowest in-place cost.



Bang-It - Data	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
Metal Hole Saw Diameter (in.)	13/16	13/16	13/16	1 ³ /16	1 ³ /16	1 ³ /16
Drilling Speed (rpm)	700-900	700-900	700-900	500-700	500-700	500-700
Insert Thread Length (in.)	3/8	5/8	¹¹ /16	¹⁵ /16	1 ¹ /8	1 ⁵ /16
Length of Sleeve (in.)	33/8	3 ³ /8	33/8	33/8	3 ³ /8	33/8
Thread Size (UNC)	1/4"-20	³ /8"-16	¹ /2"-13	⁵ /8"-11	3/4"-10	7/8"-9
Embedment Depth (in.)	2	2	2	2	2	2
Upper Deck Tension Load (lbs) *	835	1435	1775	2200	2200	2200
Lower Deck Tension Load (lbs) *	835	1115	1115	1115	1115	1115
Upper Deck Shear Load (lbs) *	620	620	620	740	740	740
Lower Deck Shear Load (lbs) *	625	840	840	840	840	840

^{*} Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum insert spacing of 12", minimum end spacing 12".

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
Bang-It				
782051 31154	ACPD-25	1/4"	Brown	100
782051 31156	ACPD-37	3/8"	Green	100
782051 31157	ACPD-50	1/2"	Yellow	100
782051 31158	ACPD-62	5/8"	Red	50
782051 31166	ACPD-75	3/4"	Purple	50
782051 53258	ACPD-87	7/8"	Black	50
Tools				
782051 31169	ACPD-81HS	¹³ /16" Carbide for ¹ /4", ³ /		1
782051 311671	ACPD-118HS	1 ¹³ /16" Carbid	1	



Machine Screw Anchors

- · For use in concrete, block, brick or stone.
- · Not recommended for use in overhead applications.
- · Readily accepts machine bolts.
- Internally threaded anchor for easy removability and service work.
- · Anchor installation requires shallow embedment.
- · Made of Zamac Alloy material.



Machine Screw Anchor - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8
Max. Tightening Torque (ft-lbs)	5	10	15
Thread Size (UNC)	1/4"-20	³ /8"-16	¹ /2"-13
Min. Embedment Depth (in.)	7/8	1 ¹ /4	1 ¹ /2
Load Capacity Tension (lbs) *	585	775	1095
Load Capacity Shear (lbs) *	355	825	1135

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Diameter	Box Qty.
Machine Screw A	nchor		
781011 03239	AMS-25	1/4"	100
781011 03242	AMS-37	3/8"	50
781011 03243	AMS-50	1/2"	50
Setting Tool			
782051 09765	9221	1/4"	1
782051 09767	9231	3/8"	1
782051 09768	9241	1/2"	1



Self-Tapping Machine Screw Anchors

- For use in normal-weight concrete, structural sand lightweight concrete and concrete over metal deck.
- Anchor design allows for shallow embedment and mechanically interlocks with base material.
- Internally threaded anchor for easy adjustment and removability of threaded rod or bolt.
- Fast anchor installation with a powered impact wrench.
- Suitable for overhead applications such as suspending cable tray, strut, pipe hangers and conduit.
- FM Approved.
- ICC-ES listed, ESR-2272
- · Made of Zinc Plated carbon steel.
- · Setting tool included.



Self-Tapping Machine Screw - Data	
ANSI Drill Bit Size (in.)	1/2
Min. Concrete Thickness (in.)	4
Max. Tightening Torque (ft-lbs)	8
Min. Embedment Depth (in.)	1 ⁵ /8
Load Capacity Tension (lbs) *	540
Load Capacity Shear (lbs) *	825

^{*} Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.

For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

UPC/Part Number	Catalog Number	Size	Thread Depth	Box Qty.
Self-Tapping Ma	nchine Screw Anchor			
782051 53362	ATM-37	3/8	¹¹ /16"	50
Tool				
782051 53363	6407 SD	3/8		1



Drive Nail Anchors

- · For use in concrete, block or brick.
- Anchor is recommended for light duty, tamper-proof applications.
- · Not recommended for overhead applications.
- Made of Zamac Alloy material.



Drive Nail - Data	³ /16"	1/4"
ANSI Drill Bit Size (in.)	³ /16	1/4
Fixture Clearance Hole (in.)	1/4	⁵ /16
Head Height (in.)	7/64	9/64
Head Size, O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	3/4	5/8
Load Capacity Tension (lbs) *	125	150
Load Capacity Shear (lbs) *	175	205

^{*} Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Size	Box Qty.
Drive Nail Anchor			
781011 02964	ADN-18-87	³ /16" x ⁷ /8"	100
781011 02965	ADN-25-75	1/4" x 3/4"	100
781011 02966	ADN-25-100	¹ /4" x 1"	100
781011 02967	ADN-25-125	¹ /4" x 1 ¹ /4"	100
781011 02968	ADN-25-150	¹ /4" x 1 ¹ /2"	100
781011 02969	ADN-25-200	1/4" x 2"	100
782051 53306	ADN-25-300	¹ /4" x 3"	100



Toggle Bolts

- The toggle bolt is a spring wing type hollow wall anchor designed for use in block, wallboard and other hollow base materials.
- Anchor is a two-part assembly consisting of a machine screw and a spring wing toggle.
- Adjustable to accommodate various wall thicknesses up to 2¹/2".
- · Combo round head bolt is provided.
- Made of zinc plated carbon steel.



Toggle Bolt - Data	3/16"		1/4"		3/8"	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	35	35	55	55	60	65
1/2" Wallboard	45	50	60	60	65	75
5/8" Wallboard	60	60	65	65	75	80
³ / ₄ " Wallboard	75	70	80	75	85	90
Hollow Concrete Masonry *	70	70	70	120	195	140

Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Drill Diameter	Size	Box Qty.
Toggle Bolt				
782051 53354	ATB-18-300	1/2"	³ /16" x 3"	50
782051 53355	ATB-18-400	1/2"	³ /16" x 4"	50
782051 53356	ATB-25-300	5/8"	1/4" x 3"	50
782051 53357	ATB-25-400	5/8"	¹ /4" x 4"	50
782051 53358	ATB-37-300	7/8"	³ /8" x 3"	25
782051 53359	ATB-37-400	7/8"	³ /8" x 4"	25



Wall Screws

- One-piece, all steel anchor with high-profile threads for easy fastening into wallboard and other masonry base materials.
- Deep cutting, corkscrew-like threads provide for smooth entry and a strong hold.
- No pre-drilling is required when fastening into wallboard or wood.
- Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled ³/16" ANSI hole.
- Installed with a No. 8 drill bit or No. 2 Phillips driver.
- · Made of case hardened carbon steel with chrome finish.



Wall Screw - Data	Minimum Embedment Depth	Load Cap. Tension (lbs.)*	Load Cap. Shear (lbs.) *
Concrete *	3/4"	90	260
1/2" Wallboard	NA	20	60
5/8" Wallboard	NA	35	90
³ / ₄ " Plywood	NA	65	150
Grout-Filled Concrete Masonry	1"	55	165
Hollow Concrete Masonry	1"	60	165
Brick Masonry	3/4"	70	120

^{*} Based on concrete compression strength of 4000 psi. Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading contact factory.

UPC/Part Number	Catalog Number	Size	Head Type	Box Qty.
Wall Screw				
782051 53372	AWS-CH	³ /16" x 1 ¹ /4"	Combo	100
782051 53373	AWS-OH	³ /16" x 1 ¹ /4"	Oval	100
782051 53374	AWS-PH	³ /16" x 1 ¹ /4"	Pan	100



Plastic Screw Anchors

- One-piece anchor designed for light duty applications in wallboard, concrete and masonry.
- · Works in hollow or solid base materials.
- Suitable for screws with various thread sizes and styles screws may be installed with a screw gun.



Plastic Screw Anchor - Data	APS-4	APS-6	APS-8
Drill Diameter (in.)	³ /16	1/4	⁵ /16
Screw Size Range	#4-#10	#6-#12	#8-#14
Min, Thread Length (in.)	1 ³ /16	1 ³ /8	1 ¹³ /16
Min. Hole Diameter (in.)	1 ³ /8	1 ⁹ /16	2
Min. Wall Thickness (in.)	1/4	3/8	1/2
Min. Embedded Thread Length (in.)	1 ⁷ /8	2	2 ⁹ /16
Load Capacity Tension (lbs) *	18	20	22
Load Capacity Shear (lbs) *	32	40	45

^{*} Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number		
Plastic Screw And	chors		
782051 53315	APS-4	#4 - #10	100
782051 53316	APS-6	#6 - #12	100
782051 53319	APS-8	#8 - #14	100



Plastic Hollow Wall Anchors

- Heavy duty hollow wall anchor designed for use in plaster, wallboard, concrete block, or hollow tile.
- Pre-assembled anchor consisting of a carbon steel wing and a locking cap/ratchet leg assembly molded from engineered plastic.
- When compared to traditional toggles, this anchor can be installed in a smaller hole and does not require a fixture or screw to set it.
- Adjustable to accommodate various wall thickness up to 21/2"



Plastic Hollow Wall - Data	³ /16"	1/4"	3/8"	1/2"
Thread Size (UNC)	³ /16"-24	1/4"-20	³ /8"-16	¹ /2"-13
Max. Tightening Torque (ft-lbs)	5	5	5	5
Minimum Clearance (in.)	1 ⁷ /8"	1 ⁷ /8"	1 ⁷ /8"	1 ⁷ /8"

Plastic Hollow	3/16"		1/4"		3/8"		1/2"	
Wall - Data	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	30	60	35	70	35	70	35	75
1/2" Wallboard	35	70	35	75	40	75	40	90
5/8" Wallboard	50	95	55	105	55	105	55	110
3/4" Wallboard	50	110	55	120	60	120	60	120
Hollow Concrete Masonry *	215	150	270	285	285	465	345	595

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Anchor Size	Drill Dia.	Wall Thick.	Box Qty.
Plastic Hollow	Wall Anchor				
782051 53311	APH-18	³ /16" x 4"	1/2"	3/8" - 21/2"	50
782051 53312	APH-25	1/4" x 4"	1/2"	3/8" - 21/2"	50
782051 53313	APH-37	³ /8" x 4"	3/4"	3/8" - 21/2"	25
782051 53314	APH-50	1/2" x 4"	3/4"	3/8" - 21/2"	25



Self-Drilling Wallboard Anchors

- One-piece self drilling anchor designed for use in hollow wallboard for light to medium duty loads.
- Ideal for mounting electrical fixtures, phone systems, and miscellaneous hardware.
- APD/AZD designed for use in ³/₈" to 1" wallboard.
- APDM/AZDM designed for use in ³/8" to ⁵/8" wallboard.
- Kit includes 50 anchors, 50 screws and #2 Phillips Drive Bit.
- Available in engineered Nylon and Zamac Alloy.





Self-Drilling Wallboard Anchor - Data	APD/AZD	APDM/AZDM	
Anchor Length (in.)	1 ¹¹ /16	1 ⁵ /16	
Min. Screw Engagement (in.)	3/4	3/4	

Self-Drilling Wallboard	APD	/AZD	APDM/AZDM	
Anchor - Data	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
³ /8" Wallboard	15	15	10	15
1/2" Wallboard	15	20	15	15
5/8" Wallboard	20	25	20	20
³ /4" Wallboard	20	25	20	20

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
Self-Drilling Wallbo	oard Anchor		
781011 03314	APD-8K	#8 x 1"	50
781011 03318	AZD-8K	#8 x 1"	50
782051 53310	APDM-6K	#6 x 1"	50
782051 53375	AZDM-6K	#6 x 1"	50



Plastic Conical Anchors

- · Designed for use with lightweight fixtures.
- · Recommended for use in concrete, block and brick.
- Recommended for light duty static applications where holding power is not critical.
- · Not recommended for overhead use.
- · Kit includes 100 anchors, 100 screws and one drill bit.
- · Made of engineered plastic.





Plastic Conical Anchor - Data	#8		#10 - #12	
	Tension	Shear	Tension	Shear
	(lbs.)	(lbs.)	(lbs.)	(lbs.)
Nominal Weight Concrete *	110	70	140	90
Hollow Concrete Masonry **	60	45	70	55
Clay Brick Masonry ***	30	50	55	65
Minimum Embedment Depth	7/8"	7/8"	1"	1"

- * Based on concrete compression strength of 4000 psi.
- ** Based on hollow concrete masonry with minimum compression strength of 1500 psi.
- ** Based on clay brick masonry with minimum compression strength of 1500 psi.

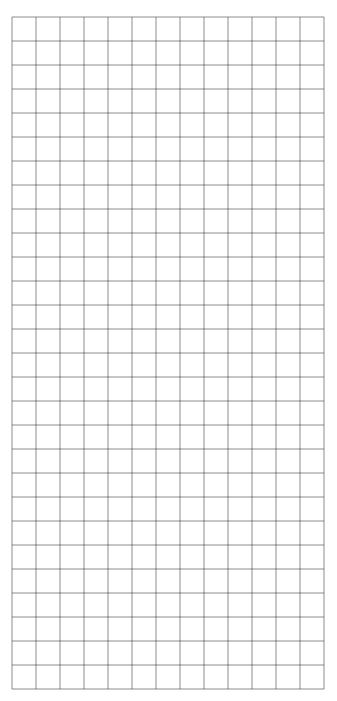
Loads contain an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
Plastic Conical Ar	nchor		
782051 53307	APC-8K	#8 x 1"	100
782051 53308	APC-10K	#10 x 1"	100
782051 53309	APC-12K	#12 x 1"	100



Anchore

Anchors



Read safety/installation instruction sheets in packages before use.

Code Compliance for Spring Steel Fasteners Based on the 2005 NEC®

B-Line has recognized the need for a reference source, detailing the National Electrical Code requirements for Spring Steel Fasteners. The following pages are reprinted portions of the 2005 NEC. These sections address nearly every aspect of fastener installations and offer design solutions for the electrical industry. If a topic has not been covered sufficiently to answer a specific question or if additional information is desired, contact B-Line's engineering department.

The following information has been carefully checked for accuracy and is believed to be correct and current. No warranty, either expressed or implied, is made as to either its applicability to, or its compatibility with, specific requirements, of this information, nor for damages consequent to its use. All design characteristics, specifications, tolerances and similar information are subject to change without notice.

To obtain a copy of the NEC® contact:
National Fire Protection Association

1 Batterymarch Park
P.O. Box 9101

Quincy, Massachusetts 02269-9101

1-800-344-3555

National Electrical Code® and NEC® are registered trademarks of the National Fire Protection Association, Inc. Quincy, MA 02269.



90.4 Enforcement. This Code is intended to be suitable for mandatory application by governmental bodies that exercise legal jurisdiction over electrical installations, including signaling and communications systems, and for use by insurance inspectors. The authority having jurisdiction for enforcement of the Code has the responsibility for making interpretations of the rules, for deciding upon the approval of equipment and materials, and for granting the special permission contemplated in a number of the rules.

By special permission, the authority having jurisdiction may waive specific requirements in this *Code* or permit alternate methods where it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety. *

This Code may require new products, constructions, or materials that may not yet be available at the time the Code is adopted. In such event, the authority having jurisdiction may permit the use of the products, constructions, or materials that comply with the most recent previous edition of this Code adopted by the jurisdiction.

Article 100 - Definitions

Listed. Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that the equipment, material, or services either meets appropriate designated standards or has been tested and found suitable for a specific purpose.

FPN: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is labeled. Use of the system employed by the listing organization allows the authority having jurisdiction to identify a listed product.

*Note: Local codes may override certain requirements of the National Electrical Code®. Consult your local inspector for further details.



300.4 Protection Against Physical Damage.

Where subject to physical damage, conductors shall be adequately protected.

- (A) Cables and Raceways through Wood Members.
 - (1) Bored Holes. . . . , holes shall be bored so that the edge of the hole is not less than 32mm (1¹/₄ in.) from the nearest edge of the wood member. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by screws or nails by a steel plate or bushing, at least 1.6 mm (¹/₁₆ in.) thick, and of appropriate length and width installed to cover the area of the wiring. (See Figure 1)

Exception No. 1: Steel plates shall not be required to protect RMC, IMC, RNC, or EMT.

Exception No. 2: A **listed** and marked steel plate less than 1.6 mm (1/16 in.) thick that provides equal or better protection against nail or screw penetration shall be permitted.

(2) Notches in Wood. . . . , cables or raceways shall be permitted to be laid in notches in wood studs, joists, rafters, or other wood members where the cable or raceway at those points is protected against nails or screws by a steel plate at least 1.6 mm (1/16 in.) thick, and of appropriate length and width, installed to cover the area of the wiring. The steel plate shall be installed before the building finish is applied. (See Figure 1)

Exception: See Exceptions 1 & 2 from (1) Bored Holes

- (B) Nonmetallic-Sheathed Cables and Electrical Nonmetallic Tubing through Metal Framing Members.
 - (1) Nonmetallic-Sheathed Cable. . . . where nonmetallic-sheathed cables pass through either factory or field punched, cut or drilled slots or holes in metal members, the cable shall be protected by listed bushings or listed grommets covering all metal edges that are securely fastened in the opening prior to installation of the cable. (See Figure 2)
 - (2) Nonmetallic-Sheathed Cable and Electrical Nonmetallic Tubing. Where nails or screws are likely to penetrate nonmetallic-sheathed cable or electrical nonmetallic tubing, a steel sleeve, steel plate, or steel clip not less than 1.6 mm (1/16 in.) in thickness shall be used to protect the cable or tubing. (See Figure 1)

Exception: See Exception 2 from (A)(1) Bored Holes



(D) Cables and Raceways Parallel to Framing Members and Furring Strips. . . . , the cable or race way shall be installed and supported so that the nearest outside surface of the cable or raceway is not less than 32 mm (1¹/4 in.) from the nearest edge of the framing member or furring strips where nails or screws are likely to penetrate. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by nails or screws by a steel plate, sleeve, or equivalent at least 1.6 mm (¹/₁₆ in.) thick (See Figures 1, 3, 4)

Exception 1: See Exception 1 from (A)(1) Bored Holes Exception No. 2: For concealed work in finished buildings, or finished panels for prefabricated buildings where such supporting is impracticable, it shall be permissible to fish the cables between access points.

Exception 3: See Exception 2 from (A)(1) Bored Holes

(E) Cables and Raceways Installed in Shallow Grooves. . . . , shall be protected by 1.6 mm (1/16 in.) thick steel plate, sleeve, or equivalent or by not less than 32 mm (11/4 in.) free space for the full length of the groove in which the cable or raceway is installed. (See Figure 1)

Exception: See Exceptions 1 & 2 from (A)(1) Bored Holes

Figure 1 - BM3 & BM3M



Figure 2 - BM1/BM2

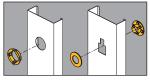
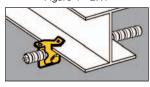


Figure 3 - BRC4 & BRC4M



Figure 4 - BX4





300.11 Securing and Supporting.

- (A) Secured in Place. Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sole support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and race ways shall not be supported by ceiling grids.
 - (1) Fire Rated Assemblies. Wiring located within the cavity of a fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided and shall be permitted to be attached to the assembly. Where independent support wires are used, they shall be distinguishable by color, tagging, or other effective means from those that are part of the fire-rated design.

Exception: The ceiling support system shall be permitted to support wiring and equipment that have been tested as part of the fire-rated assembly.

(2) Non-Fire-Rated Assemblies. Wiring located within the cavity of a non-fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided.

Exception: The ceiling support system shall be permitted to support branch-circuit wiring and associated equipment where installed in accordance with the ceiling system manufacturer's instructions.



Note: A previously acceptable practice, namely supporting cable and raceways by the ceiling grid, is no longer allowed. The intent of Article 300.11 is simple: an independent means of secure support must be provided for cable assemblies, raceways, boxes, etc. (See Figures 5 - 8)

Typical Drop Wire / Rod Applications

Additional drop wires, which are installed specifically for cable support, must be secured at both ends. When independent wires are used in fire-rated assemblies, they must be distinguishable from those wires that are part of the fire-rated assembly. B-Line's BA-311 series can be used to secure support wire to the ceiling grid. Its bright yellow color allows it to be easily recognized by inspectors. (See Figure 8)

Upper Attachments

Figure 5 - BE Series

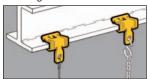


Figure 6 - BF3 Series & BF4 Series

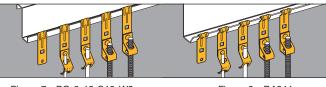


Figure 7 - BG-8-12-S18-W2

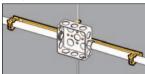
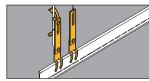


Figure 8 - BA311





310.15 Ampacities For Conductors Rated 0-2000 Volts.

(B) Tables

(2) Adjustment Factors.

(a) More Than Three Current-Carrying Conductors in a Raceway or Cable. Where the number of current-carrying conductors in a raceway or cable exceeds three, or where single conductors or multiconductor cables are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing and are not installed in raceways, the allowable ampacity of each conductor shall be reduced as shown in Table 310.15(B)(2)(a). Each current-carrying conductor of a paralleled set of conductors shall be counted as a currentcarrying conductor.

FPN No. 1: See Annex B, Table B.310.11, for adjustment factors for more than three current-carrying conductors in a raceway or cable with load diversity.

FPN No. 2: See 366.23(A), for correction factors for conductors in sheet metal auxiliary gutters and 376.22 for correction factors for conductors in metal raceways.

Exception No. 1: Where conductors of different systems, as provided in 300.3, are installed in a common raceway or cable, the derating factors shown in Table 310.15(B)(2)(a) shall apply only to the number of power and lighting conductors (Articles 210, 215, 220, and 230).

Exception No. 2: For conductors installed in cable trays, the provisions of 392.11 shall apply.

Exception No. 3: Derating factors shall not apply to conductors in nipples having a length not exceeding 600 mm (24 in.).

Exception No. 4: Derating factors shall not apply to underground conductors entering or leaving an outdoor trench if those conductors have physical protection in the form of rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit having a length not exceeding 3.05 m (10 ft) and if the number of conductors does not exceed four.



Exception No. 5: Adjustment factors shall not apply to Type AC cable or to Type MC cable without an overall outer jacket under the following conditions:

- (1) Each cable has not more than three current-carrying conductors.
- (2) The conductors are 12 AWG copper.
- (3) Not more than 20 current-carrying conductors are bundled, stacked, or supported on "bridle rings". (See Figure 9)

A 60 percent adjustment factor shall be applied where current-carrying conductors in these cables that are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing exceeds 20.

(b) More Than One Conduit, Tube, or Raceway Spacing between conduits, tubing, or raceways shall be maintained.

Figure 9 - Bridle Rings

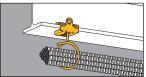
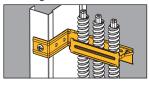


Figure 10 - BRC4M



- **314.23 Supports.** Enclosures within the scope of this article shall be supported in accordance with one or more of the provisions in 314.23 (A) through (H).
 - (C) Mounting in Finished Surfaces. An enclosure mounted in a finished surface shall be rigidly secured thereto by clamps, anchors, or fittings identified for the application. (See Figures 11 & 12)
 - (D) Suspended Ceilings. An enclosure mounted to structural or supporting elements of a suspended ceiling shall be not more than 1650 cm³ (100 in.³) in size and shall be securely fastened in place in accordance with either (D)(1) or (D)(2).
 - (1) Framing Members. An enclosure shall be fastened to the framing members by mechanical means such as bolts, screws, or rivets, or by the use of clips or other securing means identified for use with the type of ceiling framing member(s) and enclosure(s) employed. (See Figure 13)
 - (2) Support Wires. The installation shall comply with the provisions of 300.11(A). The enclosure shall be secured, using methods identified for the purpose to ceiling support wire(s), including any additional support wire(s) installed for that purpose. Support wire(s) used for enclosure support shall be fastened at each end so as to be taut within the ceiling cavity. (See Figure 14)
 - (E) Raceway Supported Enclosures, Without Devices, Luminaries (Fixtures), orLampholders.
 ... It shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs.
 Each conduit shall be secured within 900 mm (3 ft) of the enclosure, or within 450 mm (18 in.) of the enclosure if all conduit entries are on the same side. (See Figure 15)
 - (F) Raceway Supported Enclosures, With Devices, Luminaries (Fixtures), or Lampholders. . . . It shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 450 mm (18 in.) of the enclosure. (See Figure 15)

314.27 Outlet Boxes

(B) Maximum Luminaire (Fixture) Weight. Outlet boxes or fitting installed as required by 314.23 shall be per mitted to support luminaries (lighting fixtures) weighing 23 kg (50 lbs.) or less. A luminaire (lighting fixture) that weighs more than 23 kg (50 lbs.) shall be supported independently of the outlet box unless the outlet box is listed for the weight to be supported. (See Figure 13)



(D) Boxes at Ceiling-Suspended (Paddle) Fan Outlets. Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support of a ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported.



(See Figure 16)

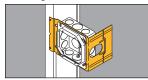


Figure 12 - BB9 & BB12



Figure 13 - BA50

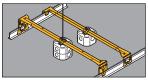


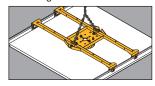
Figure 15 - BG-8-12-S18-U-2-4



Figure 14 - BG-8-12-S18-W2



Figure 16 - BA50F



Article 320 Armored Cable : Type AC

320.17 Through or Parallel to Framing Members. Type AC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

320.30 Securing and Supporting.

- (A) General. Type AC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings, designed and installed so as not to damage the cable.
- (B) Securing. Unless otherwise provided, Type AC cable shall be secured within 300 mm (12 in.) of every out let box, junction box, cabinet, or fitting and at intervals not exceeding 1.4 m (4¹/2 ft) where installed on or across framing members. (See Figures 19 -22)
- (C) Supporting. Unless otherwise provided, Type AC cable shall be supported at intervals not exceeding 1.4 m (4¹/₂ ft). Horizontal runs of Type AC cable installed in wooden or metal framing members or similar supporting means shall be considered supported where such support does not exceed 1.4 m (4¹/₂ ft) intervals.

Article 330 Metal-Clad Cable : Type MC

330.17 Through or Parallel to Framing Members. Type MC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. (See Figures 17 & 18)

330.30 Securing and Supporting.

- (A) General. Type MC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings or other approved means designed and installed so as not to damage the cable.
- (B) Securing. Unless otherwise provided, cables shall be secured at intervals not exceeding 1.8 m (6 ft). Cables containing four or fewer conductors sized no larger than 10 AWG shall be secured within 300 mm (12 in.) of every box, cabinet, fitting or other cable termination. (See Figure 19 - 22)
- (C) Supporting. Unless otherwise provided, cables shall be supported at intervals not exceeding 1.8 m (6ft). Horizontal runs of Type MC cable installed in wooden or metal framing members or similar supporting means shall be considered supported and secured where such support does not exceed 1.8 m (6 ft) intervals.

Article 334 Nonmetallic Sheathed Cables

334.17 Through or Parallel to Framing Members. Type NM, NMC, or NMS cable shall be protected in accordance with 300.4 where installed through or



parallel to framing members. Grommets used as required in 300.4(B)(1) shall remain in place and be **listed** for the purpose of cable protection. (See Figures 17 & 18)

- **334.30 Securing and Supporting.** Nonmetallic-sheathed cable shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings designed and installed so as not to damage the cable, at intervals not exceeding 1.4 m (4¹/₂ ft) and within 300 mm (12 in.) of every outlet box, junction box, cabinet, or fitting. Flat cables shall not be stapled on edge. Sections of cable protected from physical damage by raceway shall not be required to be secured within the raceway. (See Figures 19 22)
 - (A) Horizontal Runs Through Holes and Notches. In other than vertical runs, cables installed in accordance with 300.4 shall be considered to be supported and secured where such support does not exceed 1.4 m (4¹/₂ ft) intervals and the nonmetallicsheathed cable is securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other nonmetallic-sheathed cable termination.

FPN: See 314.17(C) for support where nonmetallic boxes are used.

Figure 17 - BM1/BM2

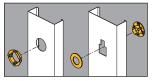


Figure 19 - BG-8-12-H7



Figure 21 - BX5

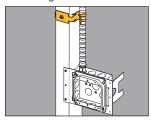


Figure 18 - BM3 & BM3M



Figure 20 - BRC4 & BRC4M

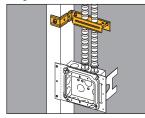


Figure 22 - BX4





Article 344 Rigid Metal Conduit : Type RMC

344.30 Securing and Supporting.

- (A) Securely Fastened. RMC shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box, device box, cabinet, conduit body, or other conduit termination. Fastening shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft). Where approved, conduit shall not be required to be securely fastened within 900 mm (3 ft) of the service head for above-the-roof termination of a mast. (See Figures 23 25)
- (B) Supports. RMC shall be supported in accordance with one of the following:
 - Conduit shall be supported at intervals not exceeding 3 m (10 ft).
 - (2) The distance between supports for straight runs of conduit shall be permitted in accordance with Table 344.30(B)(2),
 - (3) Exposed vertical risers from industrial machinery or fixed equipment shall be permitted to be supported at intervals not exceeding 6 m (20 ft)
 - (4) Horizontal runs of RMC supported by openings through framing members at intervals not exceeding 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Article 348 Flexible Metal Conduit: Type FMC

348.30 Securing and Supporting.

- (A) Securely Fastened. FMC shall be securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4 m (4¹/2 ft). (See Figures 23 - 25)
- (B) Supports. Horizontal runs of FMC supported by openings through framing members at intervals not greater than 1.4 m (4¹/2 ft) and securely fastened within 300 mm (12 in) of termination points shall be permitted. (See Figure 26)
 - * See NFPA 70-2005 for exceptions.

Article 358 Electrical Metallic Tubing - Type EMT

358.30 Securing and Supporting.

(A) Securely Fastened. EMT shall be securely fastened in place at least every 3 m (10 ft). In addition, each EMT run between termination points shall be securely within 900 mm (3 ft) of each outlet box, junction box,



device box, cabinet, conduit body, or other tubing termination. (See Figures 23 - 25)

Exception No. 1: Fastening of unbroken lengths shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft).

Exception No. 2: For concealed work in finished buildings or prefinished wall panels where such securing is impracticable, unbroken lengths (with out coupling) of EMT shall be permitted to be fished.

(B) Supports. Horizontal runs of EMT supported by openings through framing members at intervals not greater than 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Article 362 Electrical Nonmetallic Tubing - Type ENT

362.30 Securing and Supporting.

(A) Securely Fastened. ENT shall be securely fastened at intervals not exceeding 900 mm (3 ft). In addition, ENT shall be securely fastened in place within 900 mm (3 ft) of each outlet box, device box, junction box, cabinet, or fitting where it terminates. (See Figures 23 - 25)

Exception No. 1: Lengths not exceeding a distance of 1.8 m (6 ft) from a luminaire (fixture) terminal connection for tap connection to lighting luminaries (fixtures) shall be permitted without being secured.

Exception No. 2: Lengths not exceeding 1.8 m (6 ft) from the last point where the raceway is securely fastened for connection within an accessible ceiling to luminaire(s) [lighting fixture(s)] or other equipment.

(B) Supports. Horizontal runs of ENT supported by openings in framing members at intervals not exceeding 900 mm (3 ft) of termination points shall be permitted. (See Figure 26)

Figure 23 - BG-8-12-S18-U-2-4



Figure 25 - BG-8-12-B1

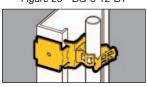


Figure 24 - BB38



Figure 26 - BX4



Article 410 Luminaries (Lighting Fixtures), Lampholders, and Lamps

410.16 Means of Support.

- (A) Outlet Boxes. Outlet boxes or fittings installed as required by 314.23 and complying with the provisions of 314.27(A) and 314.27(B) shall be permitted to support luminaries (fixtures).
- (C) Suspended Ceilings. Framing members of suspended ceiling systems used to support luminaries (fixtures) shall be securely fastened to each other and shall be securely attached to the building structure at appropriate intervals. Luminaries (fixtures) shall be securely fastened to the ceiling framing member by mechanical means such as bolts, screws, or rivets. Listed clips identified for use with the type of ceiling framing member(s) and luminaire(s) [fixture(s)] shall also be permitted. (See Figures 27 31)
- **410.104 Fastening.** Lighting track shall be securely mounted so that each fastening is suitable for supporting the maximum weight of luminaries (fixtures) that can be installed. Unless identified for supports at greater intervals, a single section 1.2 m (4 ft.) or shorter in length shall have two supports, and, where installed in a continuous row, each individual section of not more than 1.2 m (4 ft.) in length shall have one additional support. (See Figure 30)
- **422.18** Support of Ceiling-Suspended (Paddle) Fans Ceiling-suspended (paddle) fans shall be supported independently of an outlet box or by **listed** outlet box or outlet box systems identified for the use and installed in accordance with 314.27(D). (See Figure 32)

Article 800 Communication Circuits

800.24 Mechanical Execution of Work.

Communications circuits and equipment shall be installed in a neat and workmanlike manner. Cables installed exposed on the surface of ceilings and sidewalls shall be supported by the building structure in such a manner that the cable will not be damaged by normal building use. Such cables shall be secured by straps, staples, hangers, or similar fittings designed and installed so as not to damage the cable. The installation shall also conform with 300.4(D) and 300.11.

FPN: Accepted industry practices are described in ANSI/NECA/BICSI 568-2001, Standard for Installing Commercial Building Telecommunications Cabling, and other ANSI-approved installation standards.



Figure 27 - BA15



Figure 29 - BA40

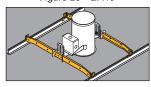


Figure 31 - BAX Series



Figure 28 - BA1

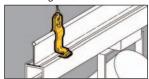
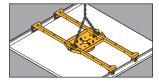


Figure 30 - BA 4-16 Series



Figure 32 - BA50F





TIA/EIA Requirements

ANSI/TIA/EIA-569-A

- 4. Horizontal pathways and related spaces
- 4.6 Ceiling pathway
- 4.6.2 Design guidelines
 - 4.6.2.1 Planning. The design shall provide a suitable means for supporting cable from the telecommunications closet to the work areas to be served. Cable shall not be laid directly on the ceiling tile or rails.
 - **4.6.2.2 Clearance.** A minimum of 75 mm (3 in.) clear vertical space shall be available above the ceiling tiles for the horizontal cabling and pathway. (See Figure 33)

4.6.5 Cable support

- 4.6.5.1 Where zone conduit or cable tray is not available in a suspended ceiling space and where telecommunications cables are allowed to be placed in the ceiling, adequate open-top cable supports, located on 1220-1525 mm (48-60 inch) centers, shall be provided. Where larger quantities of cables (50-75 cables) bunched together in the ceiling at a congested area, such as close to the telecommunications closet, special supports shall be designed and installed to carry the additional weight. (See Figures 33 & 34)
- 4.6.5.2 A suspended ceiling support rod or wire may be used to mount appropriate cable fasteners loaded with multiple cables up to the total weight for which the fastener is approved. The T-bar rail of a suspended ceiling may be used to mount appropriate cable fasteners loaded with cable up to a total weight of 0.7 kg/m (0.45 lb/ft). The fastener design shall not interfere with the inserting or removing of the ceiling tile. (See Figures 33 & 34)

NOTES

- A weight of 1.0 kg (2.2 lbs.) or 0.7 kg/m with spacing of support wire/rod at 1.5 m (5 ft.) is equivalent to a bundle of sixteen 4-pair 24 AWG UTP cables, including fasteners.
- If any side pull is exerted on the support wire, like a turn in direction of the cables, the level of the ceiling tee rail could be affected.



TIA/EIA Requirements

Figure 33 - BCHxx-A28

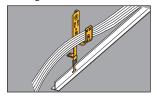


Figure 34 - BCHxx-W2





Cable Hook Technical Data

Single-Sided Single-Tier Cable Fasteners

Hook Size In.	'A' In.	'B' In.	'C' In.	'D' In.	'E' In.	'F' In.	'G' In.	'H' In.
1 ⁵ /16	1.62	3.62	2.81	1.69	1.31	2.00	1.37	.20
2	1.62	4.31	3.50	2.38	2.00	2.69	2.06	.20
4	2.00	6.81	5.56	4.55	4.00	4.84	4.06	.31

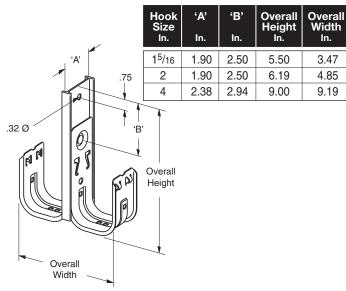
'A' .26 Ø

Load Capacity

Cable	Static Load Capacity (S.F. 3)			
Hook Size	Galvanized & Stainless Steel	Spring Steel		
ln.	Lbs.	Lbs.		
1 ⁵ /16	30	100		
2	30	100		
4	30	100		

Stated loads are per hook and should not be exceeded. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Double-Sided Single-Tier Cable Fasteners

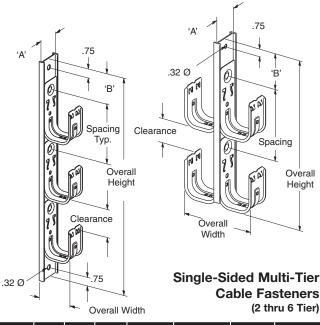




Cable Hook Technical Data

Double-Sided Double-Tier Cable Fasteners

Hook Size In.	'A' In.	'B' In.	Spacing In.	Clearance In.	Overall Height In.	Overall Width In.
1 ⁵ /16	1.90	2.50	3.75	1.94	9.25	3.47
2	1.90	2.50	4.75	2.25	10.94	4.85
4	2.38	2.94	9.38	4.50	18.20	9.19



Hook Size In.	No. Tiers In.	'A' In.	'B' In.	Spacing In.	Clearance In.	Overall Height In.	Overall Width
	2					11.00	
	3					14.75	
1 ⁵ /16	4	1.90	2.50	3.75	1.94	18.50	1.96
	5					22.25	
	6					26.00	
	2					12.75	
	3					17.50	
2	4	1.90	2.50	4.75	2.25	22.25	2.66
	5					27.00	
	6					31.75	
	2	2 20	2.04	0.75	2.10	19.33	4 00
4	3	2.38	2.94	8.75	3.19	28.08	4.82

Rigid Steel Conduit (Heavy Wall Conduit)

Nominal Conduit Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight Per 100 Ft. With Couplings Attached Lbs.	Weight of Conduit and Conductors Per 100 Ft.* Lbs.
3/8	0.675	0.493	51.5	65.1
1/2	0.840	0.632	79.0	101.1
3/4	1.050	0.836	105.0	145.8
1	1.315	1.063	153.0	219.3
1 ¹ /4	1.660	1.394	201.0	318.3
1 ¹ /2	1.900	1.624	249.0	408.8
2	2.375	2.083	332.0	593.8
21/2	2.875	2.489	527.0	901.0
3	3.500	3.090	682.0	1259.0
3 ¹ /2	4.000	3.570	831.0	1604.0
4	4.500	4.050	972.0	1967.0

Intermediate Metal Conduit (IMC)

Nominal Conduit Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight Per 100 Ft. With Couplings Attached Lbs.	Weight of Conduit and Conductors Per 100 Ft.* Lbs.
1/2	0.815	0.745	60.0	82.1
3/4	1.029	0.954	82.0	122.8
1	1.290	1.205	116.0	182.3
1 ¹ /4	1.638	1.553	150.0	267.3
1 ¹ /2	1.883	1.793	182.0	341.8
2	2.360	2.266	242.0	503.8
21/2	2.857	2.727	401.0	775.0
3	3.476	3.346	493.0	1069.0
31/2	3.971	3.841	573.0	1346.0
4	4.466	4.336	638.0	1632.0

Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.



Dimensions taken from ANSI C80.3 - 1977.

Electrical Metallic Tubing (EMT) - Thinwall Conduit

Nominal Conduit Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight Per 100 Ft. With Couplings Attached Lbs.	Weight of Conduit and Conductors Per 100 Ft.* Lbs.
3/8	0.577	0.493	23.0	36.6
1/2	0.706	0.622	28.5	50.6
3/4	0.922	0.824	43.5	84.3
1	1.163	1.049	64.0	130.3
1 ¹ /4	1.510	1.380	95.0	212.3
1 ¹ /2	1.740	1.610	110.0	269.8
2	2.197	2.067	140.0	401.8
21/2	2.875	2.731	205.0	579.0
3	3.500	3.356	250.0	826.3
3 ¹ /2	4.000	3.834	325.0	1098.0
4	4.500	4.334	370.0	1364.0

Rigid Aluminum Conduit

Nominal Conduit Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight Per 100 Ft. With Couplings Attached Lbs.	Weight of Conduit and Conductors Per 100 Ft.* Lbs.
1/2	0.840	0.632	27.4	49.5
3/4	1.050	0.836	36.4	77.2
1	1.315	1.063	53.0	119.3
1 ¹ /4	1.660	1.394	69.6	186.9
1 ¹ /2	1.900	1.624	82.2	242.0
2	2.375	2.083	115.7	377.5
21/2	2.875	2.489	182.5	556.5
3	3.500	3.090	238.9	815.2
31/2	4.00	3.570	287.7	1061.0
4	4.500	4.050	340.0	1334.0
5	5.563	5.073	465.4	2028.0
6	6.625	6.093	612.5	2870.0

Dimensions taken from ANSI C80.3 - 1977.

Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.



Schedule 40 PVC Plastic Pipe

Nominal Pipe Size In.	Outside Diameter In.	Wall Thickness In.	Weight of Pipe Lbs. Per Ft.	Weight of Water Lbs. Per Ft.
1/8	0.405	0.068	0.04	0.02
1/4	0.540	0.088	0.07	0.04
3/8	0.675	0.091	0.10	0.08
1/2	0.840	0.109	0.15	0.10
3/4	1.050	0.113	0.20	0.20
1	1.315	0.133	0.30	0.40
1 ¹ /4	1.660	0.140	0.40	0.60
1 ¹ /2	1.900	0.145	0.50	0.90
2	2.375	0.155	0.60	1.40
2 ¹ /2	2.875	0.203	1.00	2.10
3	3.500	0.216	1.30	3.20
3 ¹ /2	4.000	0.226	1.60	4.30
4	4.500	0.237	1.90	5.50

Electrical Non-Metallic Tubing (ENT)

Nominal Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight of Conduit Lbs. Per 100 Ft.	Weight of Conduit and Conductors Lbs. Per 100 Ft.
1/2	0.840	0.560	11.0	33.1
3/4	1.050	0.760	14.0	54.8
1	1.315	1.000	20.0	86.3
1 ¹ /4	1.660	1.402	19.0	136.3
1 ¹ /2	1.990	1.554	27.0	186.8
2	2.375	2.030	32.0	261.8

All Threaded Rod (ATR)

Thread Size	Root Area	Design Load (SF=5)
1/4"-20	0.027 in. ²	240 lbs.
⁵ /16"-18	0.045 in. ²	400 lbs.
³ /8"-16	0.068 in. ²	610 lbs.

Tabulated loads are based on an allowable tensile stress of 12000 psi reduced by 25% resulting in 9000 psi. From ANSI/MSS SP-58, Table 3.

Dimensions taken from ANSI B1.1 1982 Unified Inch Screw Threads. All threads are UNCR series.



MC -- Metal Clad Cable Specifications

Trade Size	Grounding Conductor AWG	Armor O.D. In.	Approximate Wt. Per 100 Ft. Lbs.
14-2 Solid	14	0.470	17.5
14-3 Solid	14	0.480	20.5
14-4 Solid	14	0.510	23.0
12-2 Solid	12	0.495	21.5
12-3 Solid	12	0.530	25.5
12-4 Solid	12	0.565	29.5
10-2 Solid	10	0.560	28.5
10-3 Solid	10	0.600	34.0
10-4 Solid	10	0.645	39.5
8-2 Stranded	10	0.710	45.0
8-3 Stranded	10	0.770	54.5
8-4 Stranded	10	0.835	64.5
6-2 Stranded	8	0.795	59.0
6-3 Stranded	8	0.865	72.0
6-4 Stranded	8	0.945	86.0
4-2 Stranded	8	0.945	78.5
4-3 Stranded	8	1.035	98.5
4-4 Stranded	8	1.135	119.5
3-3 Stranded	6	1.025	107.0
3-4 Stranded	6	1.120	126.0
2-2 Stranded	6	1.075	104.5
2-3 Stranded	6	1.180	134.0
2-4 Stranded	6	1.295	164.0

Category 5 Cable

Pair Count	AWG Size	O.D. In.	Weight Lbs. Per 100 Ft.
2	24	0.16	1.3
3	24	0.18	1.7
4	24	0.20	2.1
6	24	0.27	3.5
8	24	0.30	4.2
25	24	0.50	13.0

Type NM -- Non-Metallic Sheathed Cable

Size AWG	Number of Strands	Ground Wire Size	Approximate O.D. In.	Approximate Weight Lbs. Per 100 Ft.
				Lbs. Per 100 Ft.
		Without Gr	ound Wire	
14-2	Solid		.17 x .37	5.3
12-2	Solid		.19 x .40	7.0
10-2	Solid		.22 x .45	10.1
14-3	Solid		0.295	8.2
12-3	Solid		0.332	10.9
10-3	Solid		0.396	15.7
8-3	7		0.538	27.8
6-3	7		0.611	42.2
		With Gro	und Wire	
14-2	Solid	14	.17 x .37	6.4
12-2	Solid	12	.19 x .41	9.0
10-2	Solid	10	.22 x .49	13.3
8-2	7	10	.28 x .61	21.5
6-2	7	10	.32 x .73	31.3
14-3	Solid	14	.322	9.3
12-3	Solid	12	.363	12.9
10-3	Solid	10	.436	18.7
14-4	Solid	14	.450	11.6
12-4	Solid	12	.490	16.1
10-4	Solid	10	.550	23.3
8-3	7	10	.552	30.5
6-3	7	10	.611	45.0
4-3	7	8	.821	66.4
2-3	7	8	.946	93.0

Type THHN -- Insulated Single Conductor Building Wire

Trade Size	Approximate O.D. In.	Approximate Weight Lbs. Per 100 Ft.
14 AWG	0.11	1.7
12 AWG	0.13	2.5
10 AWG	0.16	4.0
8 AWG	0.22	6.5
6 AWG	0.25	9.7
4 AWG	0.32	15.5
3 AWG	0.35	19.1
2 AWG	0.38	23.6
1 AWG	0.45	30.4
1/0 AWG	0.49	37.5



AC -- Armored Cable Specifications

Trade Size	Armor O.D.	Approximate Weight
55	ln.	Lbs. Per 100 Ft.
14-2 Solid	0.433	18.0
14-3 Solid	0.453	20.0
14-4 Solid	0.486	25.0
12-2 Solid	0.467	21.0
12-3 Solid	0.489	24.5
12-4 Solid	0.520	29.0
10-2 Solid	0.476	25.0
10-3 Solid	0.500	29.5
10-4 Solid	0.541	38.0
8-2 Solid	0.570	34.5
8-3 Solid	0.601	41.5
8-4 Solid	0.654	48.0
8-2 Stranded	0.604	34.5
8-3 Stranded	0.637	42.0
8-4 Stranded	0.695	51.5
6-2 Stranded	0.700	44.5
6-3 Stranded	0.739	56.0
6-4 Stranded	0.807	68.5
4-2 Stranded	0.836	62.0
4-3 Stranded	0.885	80.0
4-4 Stranded	0.971	99.5
3-3 Stranded	0.990	94.0
3-4 Stranded	1.085	118.0
2-2 Stranded	0.956	81.5
2-3 Stranded	1.014	109.5
2-4 Stranded	1.115	138.0

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