Connectors

PRODUCT CATALOG

2015 EDITION

Richards MANUFACTURING CO.

More than 60 years of quality and service to the utility industry

Richards Manufacturing Company supplies a wide variety of products to utilities for overhead and underground transmission and distribution. In the following pages you will find a wide selection of our standard electrical products reflecting many years of engineering and manufacturing excellence. Many nonstandard and specialty products are designed, manufactured and tested to meet our customers' requirements. If you do not find the product you need in this catalog, please contact the factory. In addition to the products described in this catalog, Richards provides:

Gas Products

Richards supplies natural gas utilities with a wide variety of meter accessories, manifold assemblies, and prefabricated meter assemblies. Please refer to our gas products catalog for more details.

Bus Bar Fabrication

Richards Manufacturing Company maintains a large inventory of copper and aluminum bus bars. Manufacturing processes include cutting, punching, drilling, milling, bending, and welding. Complete spot network bus vaults are designed and fabricated to meet space and ampacity requirements. Hot tinning and silver plating are part of our in-house capabilities.

Network Protectors – New And Reconditioned

Richards is the largest supplier of network protectors and related equipment in the world. We manufacture several different designs of new network protectors. We also recondition utility-owned network protectors and provide a wide variety of replacement parts for most existing designs.

High Voltage Products

Richards manufactures a variety of molded primary distribution connectors, including disconnectable splices up to 35kV and 600 Ampere Elbows up to 35kV. Richards also manufactures specialized 600 Ampere elbow connectors including compound elbows integrating various plugs into the elbow body.

Electronic Technology, Inc. (ETI)

ETI is a sister company to Richards with extensive engineering and manufacturing capabilities. ETI provides network protector manufacturing, reconditioning, and replacement parts. Products include microprocessor network protector relays, microprocessor capacitor bank controls and network monitoring transmitters, and receivers. Currently more than 30 major utilities are utilizing the ETI MNPR® or RCM™ to automate their underground networks.

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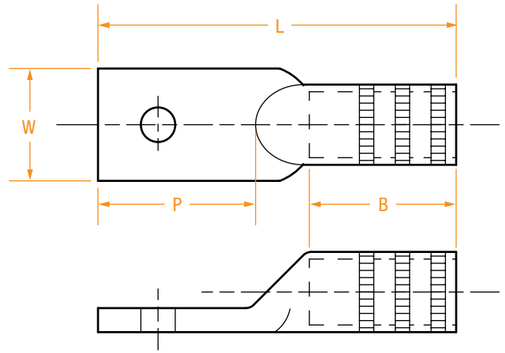
Aluminum Compression Lugs

Richards Manufacturing, Inc. | 517 Lyons Avenue, Irvington, NJ 07111 | 973.371.1771 | www.Richards-Mfg.com RMC0615

SHORT-BARREL ALUMINUM LUGS (ONE- & TWO-HOLE)

SAL Series

- Made of high-conductivity aluminum – tin plated.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- For NEMA standards or any other special size requirements.



PART NUMBER*	WIRE SIZE	# OF HOLES	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
					B	L	P	W
SAL3	#6	1	1/4	5/16, 346, TP	3/4	1-3/4	5/8	5/8
SAL5	#4	1	5/16	TB, 375	7/8	2-3/16	13/16	13/16
SAL7	#2	1	3/8	TQ, 348, 1/2	1-1/8	2-1/2	7/8	7/8
SAL8	#1	1	3/8	TQ, 348, 1/2	15/16	2-9/16	1-1/8	3/4
SAL9	1/0	1	3/8	TU, BG, 5/8	1	2-9/16	1-1/8	13/16
SAL9-2N	1/0	2	3/8	TU, BG, 5/8	1	3-5/8	2-3/16	13/16
SAL10	2/0	1	1/2	TWTY, 297, 5/8-1	1-1/8	2-15/16	1-5/16	15/16
SAL10-2N	2/0	2	1/2	TWTY, 297, 5/8-1	1-1/8	4-11/16	3-1/16	15/16
SAL11	3/0	1	1/2	TV, 467, 781	1-1/4	3-3/16	1-5/16	1-1/16
SAL11-2N	3/0	2	1/2	TV, 467, 781	1-1/4	4-15/16	3-1/16	1-1/16
SAL12	4/0	1	1/2	TX, 298, 840	1-5/16	3-5/16	1-5/16	1-3/16
SAL12-2N	4/0	2	1/2	TX, 298, 840	1-5/16	5-1/16	3-1/16	1-3/16
SAL13	250	1	1/2	TX, 840, 324	1-7/16	3-7/16	1-5/16	1-1/4
SAL13-2N	250	2	1/2	TX, 840, 324	1-7/16	3-5/8	3-3/4	1-3/16
SAL14	300	1	1/2	TH, 470, 1	1-1/2	3-7/8	1-5/16	1-3/8
SAL14-2N	300	2	1/2	TH, 470, 1	1-1/2	5-5/16	3-1/16	1-3/8
SAL15	350	1	5/8	96, 299, 1-1/8	1-5/8	4-1/8	1-5/16	1-1/2
SAL15-2N	350	2	5/8	96, 299, 1-1/8	1-5/8	4-7/8	3-1/16	1-1/2
SAL16	400	1	5/8	96, 472, 1-1/8	1-13/16	4-7/8	1-9/16	1-5/8
SAL16-2N	400	2	5/8	96, 472, 1-1/8	1-13/16	6-1/4	3-9/16	1-5/8
SAL18	500	1	5/8	106A, 300, 1-5/16	1-7/8	5-1/16	1-13/16	1-13/16
SAL18-2N	500	2	5/8	106A, 300, 1-5/16	1-7/8	6-7/16	3-9/16	1-13/16

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SHORT-BARREL ALUMINUM LUGS

SAL Series (continued)

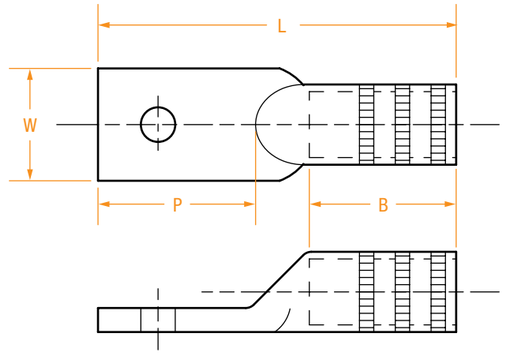
PART NUMBER*	WIRE SIZE	# OF HOLES	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
					B	L	P	W
SAL20	600	1	5/8	115H, 473, 1-5/16	2	5-5/16	1-13/16	2
SAL20-2N	600	2	5/8	115H, 473, 1-5/16	2	6-5/8	3-9/16	2
SAL22	700	1	5/8	125H, 936, 1-1/2	2-1/4	5-3/4	1-13/16	2-3/16
SAL23-2N	750	2	5/8	125H, 936, 1-1/2	2-1/4	7-1/16	3-9/16	2-3/16
SAL24	800	1	5/8	140H, 474, 1-1/2	2-5/16	5-7/8	1-13/16	2-1/4
SAL24-2N	800	2	5/8	140H, 474, 1-1/2	2-5/16	7-1/8	3-9/16	2-1/4
SAL28	1000	1	5/8	150H, 302, 1-3/4	2-9/16	6-5/16	1-13/16	2-9/16
SAL28-2N	1000	2	5/8	150H, 302, 1-3/4	2-9/16	7-7/16	3-9/16	2-9/16
SAL30	1500	1	3/4	478, 189	3-3/16	7-9/16	2-1/16	3-1/16
SAL30-2N	1500	2	3/4	478, 189	3-3/16	8-7/16	3-9/16	3-1/16
SAL32	2000	1	3/4	479, 225	3-11/16	8-3/8	2-1/16	3-1/2
SAL32-2N	2000	2	3/4	479, 225	3-11/16	9-1/4	3-9/16	3-1/2

* For untinned lugs, add "-NT" from the part number (example: SAL3-NT for a #6 untinned lug with a 1/4" bolt).

ONE-HOLE ALUMINUM LUGS

AL Series

- Made of high-conductivity aluminum – tin plated.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- For NEMA standards or any other special size requirements.



PART NUMBER*	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
				B	L	P	W
AL3-1/4	6	1/4	5/16, 346, TP	13/16	2-5/32	7/8	9/16
AL5-1/4	4	1/4	TB, 375	1	2-1/2	23/32	21/32
AL7-1/4	2	1/4	TQ, 348, 1/2	1	2-1/2	23/32	21/32
AL9-3/8	1/0	3/8	TU, BG, 5/8	1-1/4	3-3/16	1-1/4	7/8
AL9	1/0	1/2	TU, BG, 5/8	1-1/4	3-3/16	1-1/4	7/8
AL10-3/8	2/0	3/8	TWTY, 297, 5/8-1	1-3/8	3-3/16	1-1/4	15/16
AL10	2/0	1/2	TWTY, 297, 5/8-1	1-3/8	3-3/16	1-1/4	15/16
AL11-3/8	3/0	3/8	TV, 467, 781	1-1/2	3-7/16	1-5/16	1-1/16
AL11	3/0	1/2	TV, 467, 781	1-1/2	3-7/16	1-5/16	1-1/16
AL12-3/8	4/0	3/8	TX, 298, 840	1-1/2	3-9/16	1-5/16	1-3/16
AL12	4/0	1/2	TX, 298, 840	1-1/2	3-9/16	1-5/16	1-3/16
AL13	250	1/2	TX, 840, 324	1-5/8	3-5/8	1-5/16	1-1/4
AL14	300	1/2	TH, 470, 1	2-1/4	4	1-5/16	1-3/8
AL15	350	1/2	96, 299, 1-1/8	2-1/4	4-1/4	1-5/16	1-1/2
AL16	400	1/2	96, 472, 1-1/8	2-1/2	4-7/8	1-1/4	1-5/8
AL16-5/8	400	5/8	96, 472, 1-1/8	2-1/2	4-7/8	1-1/4	1-5/8
AL18	500	1/2	106A, 300, 1-5/16	3	5-7/16	1-1/2	1-3/4
AL18-5/8	500	5/8	106A, 300, 1-5/16	3	5-7/16	1-1/2	1-3/4
AL20	600	1/2	115H, 473, 1-5/16	3	5-7/16	1-1/2	1-15/16
AL20-5/8	600	5/8	115H, 473, 1-5/16	3-1/16	5-11/16	1-9/16	1-15/16

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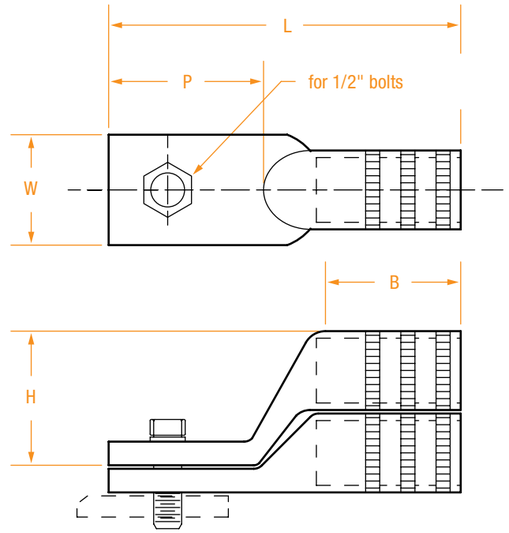
ONE-HOLE ALUMINUM LUGS

PART NUMBER*	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
				B	L	P	W
AL23	700-750	1/2	125H, 608, 1-1/2	3-3/8	6-1/2	1-7/8	1-3/4
AL23-5/8	700-750	5/8	125H, 608, 1-1/2	3-3/8	6-1/2	1-7/8	1-3/4
AL24	800	1/2	140H, 474, 1-1/2	3-3/8	6-5/8	1-7/8	1-13/16
AL24-5/8	800	5/8	140H, 474, 1-1/2	3-3/8	6-5/8	1-7/8	1-13/16
AL28	1,000	1/2	150H, 725, 1-3/4	4-5/8	7-7/8	1-7/8	2-9/16
AL28-5/8	1,000	5/8	150H, 725, 1-3/4	4-5/8	7-7/8	1-7/8	2-9/16

* For untinned lugs, add "-NT" to the part number (example: AL3-NT for a #6 untinned lug with a 1/4" bolt).

STRAIGHT & STACKING ONE-HOLE ALUMINUM LUGS – COMMON DIE

- Made of high-conductivity aluminum – tin plated.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.



STRAIGHT LUG PART NUMBER*	STACKING LUG PART NUMBER*	CONDUCTOR		INSTALLING DIES	DIMENSIONS IN INCHES				
		CONCENTRIC	COMPACT		B	H**	L	P	W
ALCD2	ASLCD2	8	–	687, 52, BG, TU, 243, 5/8, 8A	1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD3	ASLCD3	6	4	687, 52, BG, TU, 243, 5/8, 8A	1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD5	ASLCD5	4	–	687, 52, BG, TU, 243, 5/8, 8A	1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD7	ASLCD7	2	1	687, 52, BG, TU, 243, 5/8, 8A	1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD8	ASLCD8	1	–	687, 52, BG, TU, 243, 5/8, 8A	1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD9	ASLCD9	1/0	2/0	687, 52, BG, TU, 243, 5/8, 8A	1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD10	ASLCD10	2/0	3/0	249, TX, 76, 658, 840, 324, 11A	1-7/16	1-3/4	3-1/4	1-3/8	1-1/4
ALCD11	ASLCD11	3/0	4/0	249, TX, 76, 658, 840, 324, 11A	1-1/2	1-3/4	3-3/8	1-3/8	1-1/4
ALCD12	ASLCD12	4/0	250	249, TX, 76, 658, 840, 324, 11A	1-1/2	1-3/4	3-3/8	1-3/8	1-1/4
ALCD13	ASLCD13	250	300	249, TX, 76, 658, 840, 324, 11A	1-1/2	1-3/4	3-3/8	1-3/8	1-1/4
ALCD14		300	350	299, 96, 655, 321, 316, 1-1/8	1-5/8	–	3-5/8	1-3/8	1-1/4
ALCD15		350	400	299, 96, 655, 321, 316, 1-1/8	1-5/8	–	3-5/8	1-3/8	1-1/4
ALCD16		400	500	300, 317, 1-5/16, 426	1-5/8	–	3-5/8	1-3/8	1-1/4
ALCD18		500	–	300, 317, 1-5/16, 426	2-1/8	–	3-5/8	1-1/4	1-5/16

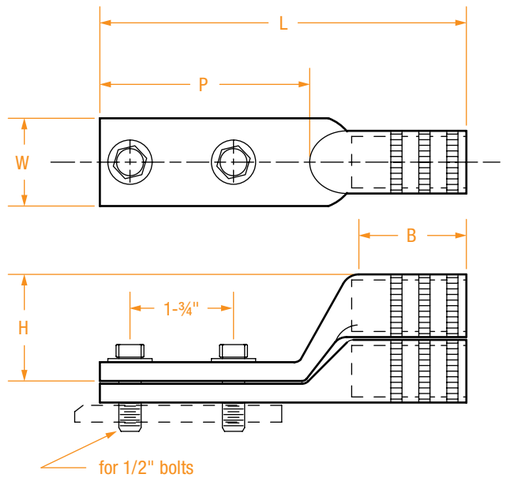
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For untinned lugs, add "-NT" to the part number (example: ALCD2-NT for #8 straight untinned lug).
** For stacking lugs only.

STRAIGHT & STACKING TWO-HOLE ALUMINUM NEMA LUGS

AL-N Series

- Made of high-conductivity aluminum – tin plated.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- In accordance with all NEMA standards.



STRAIGHT LUG PART NUMBER*	STACKING LUG PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	H**	L	P	W
AL3-2N	ASL3-2N	6	375, TB	1-1/4	–	4-3/4	3-1/8	7/8
AL5-2N	ASL5-2N	4	375, TB	1-1/4	–	4-3/4	3-1/8	7/8
AL7-2N	ASL7-2N	2	52, BG, 243, 5/8	1-5/8	1-1/2	5-1/4	3-1/8	1
AL8-2N	ASL8-2N	1	52, BG, 243, 5/8	1-1/2	1-1/2	5-1/4	3-1/8	1
AL9-2N	ASL9-2N	1/0	52, BG, 243, 5/8	1-1/2	1-1/2	5-1/8	3-1/8	1
AL10-2N	ASL10-2N	2/0	58, 297, 245, 5/8-1	1-3/4	1-5/8	5-1/2	3-1/8	1
AL11-2N	ASL11-2N	3/0	66, 167, 247, 781	1-7/8	1-3/4	5-5/8	3-1/8	1-1/8
AL12-2N	ASL12-2N	4/0	840, 298, TX	2	1-7/8	5-5/8	3-1/8	1-1/8
AL13-2N	ASL13-2N	250	840, 324, TX	2-1/8	2	6	3-1/8	1-1/8
AL14-2N	ASL14-2N	300	87H, 470, 251, 1	2-1/4	2	6-5/8	3-1/8	1-5/16
AL15-2N	ASL15-2N	350	96, 299, 655, 1-1/8	2-1/4	2-3/8	6-5/8	3-1/8	1-1/2
AL16-2N	ASL16-2N	400	96, 472, 705, 1-1/8	2-1/2	2-1/2	6-5/8	3-1/8	1-5/8
AL18-2N	ASL18-2N	500	106A, 300, 426 1-5/16	3	2-5/8	6-7/8	3-1/8	1-3/4
AL20-2N	ASL20-2N	600	115H, 473, 786 1-5/16	3	2-3/4	7-1/2	3-1/8	1-3/4
AL23-2N	ASL23-2N	700-750	140H, 301, 342, 1-1/2	3-3/8	3	7-1/2	3-1/8	1-3/4
AL24-2N	ASL24-2N	800	140H, 474, 724, 1-5/8	3-13/32	3-1/8	7-1/2	3-1/8	1-3/4

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STRAIGHT & STACKING TWO-HOLE ALUMINUM NEMA LUGS

AL-N Series (continued)

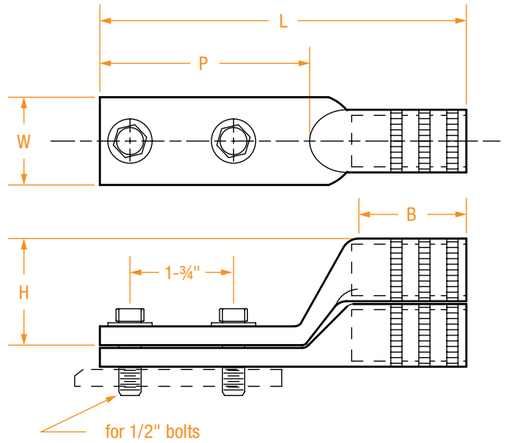
STRAIGHT LUG PART NUMBER*	STACKING LUG PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	H**	L	P	W
AL28-2N-W	ASL28-2N-W	1,000	161, 302, 727, 1-3/4	4-11/16	3-1/4	9-1/2	3-5/8	2-9/16
AL28-2N	ASL28-2N	1,000	161, 302, 727, 1-3/4	4-5/8	3-1/4	9-1/2	3-5/8	1-3/4
AL29-2N	ASL29-2N	1,250	1-7/8, 727	4-5/8	–	9-5/8	3-5/8	1-3/4
AL30-2N	ASL30-2N	1,500	478	5-9/16	–	10-7/8	3-5/8	3-3/16
AL31-2N	ASL31-2N	1,750	204, 729, 40AH	5-1/2	–	–	3-5/8	3-3/16
AL32-2N	ASL32-2N	2,000	479	6-1/16	–	11-15/16	3-5/8	3-1/2

* For untinned lugs, add "-NT" to the part number (example: AL3-2N-NT for #6 straight untinned lug).
** For stacking lugs only.

STRAIGHT & STACKING TWO-HOLE ALUMINUM NEMA LUGS – COMMON DIE

ALCD-N Series

- Made of high-conductivity aluminum – tin plated.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- In accordance with all NEMA standards.



STRAIGHT LUG PART NUMBER*	STACKING LUG PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	H**	L	P	W
ALCD1-2N	ASLCD1-2N	8	TU, 52, BG, 687, 243, 5/8, 8A	1-1/2	1-1/2	5-1/8	3-1/16	1-1/4
ALCD3-2N	ASLCD3-2N	6	TU, 52, BG, 687, 243, 5/8, 8A	1-1/2	1-1/2	5-1/8	3-1/16	1-1/4
ALCD5-2N	ASLCD5-2N	4	TU, 52, BG, 687, 243, 5/8, 8A	1-7/8	1-1/2	5-5/8	3-1/16	1-1/4
ALCD7-2N	ASLCD7-2N	2	TU, 52, BG, 687, 243, 5/8, 8A	1-7/8	1-1/2	5-5/8	3-1/16	1-1/4
ALCD8-2N	ASLCD8-2N	2&1	TU, 52, BG, 687, 243, 5/8, 8A	1-7/8	1-1/2	5-5/8	3-1/16	1-1/4
ALCD9-2N	ASLCD9-2N	1/0	TU, 52, BG, 687, 243, 5/8, 8A	1-7/8	1-1/2	5-5/8	3-1/16	1-1/4
ALCD10-2N	ASLCD10-2N	2/0	TX, 76, 324, 249, 658, 840, 11A	2	1-3/4	5-7/8	3-1/16	1-1/4
ALCD11-2N	ASLCD11-2N	3/0	TX, 76, 324, 249, 658, 840, 11A	2	1-3/4	6-5/16	3-1/16	1-1/4
ALCD12-2N	ASLCD12-2N	4/0	TX, 76, 324, 249, 658, 840, 11A	2	1-3/4	6-5/16	3-1/16	1-1/4
ALCD13-2N	ASLCD13-2N	250	TX, 76, 324, 249, 658, 840, 11A	2	1-3/4	6-5/16	3-1/16	1-9/16
ALCD14-2N	ASLCD14-2N	300	96, 299, 655, 1-1/8	2-1/4	–	6-1/2	3-1/16	1-9/16
ALCD15-2N	ASLCD15-2N	350	96, 299, 655, 1-1/8	2-1/4	–	6-1/2	3-1/16	1-9/16
ALCD16-2N	ASLCD16-2N	400	300, 1-5/16, 317, 426	2-1/2	–	6-1/2	3-1/16	1-5/8
ALCD18-2N	ASLCD18-2N	500	300, 1-5/16, 317, 426	2-3/4	–	6-5/8	3-1/16	1-5/8
ALCD23-2N	ASLCD23-2N	750	302, 1-3/4, 161	3-3/8	–	7-1/8	3-1/16	1-5/8
ALCD24-2N	ASLCD24-2N	800	302, 1-3/4, 161	3-3/8	–	7-1/8	3-1/16	1-5/8
ALCD28-2N	ASLCD28-2N	1000	302, 1-3/4, 161	3-7/8	–	7-5/8	3-1/16	1-5/8

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For untinned lugs, add "-NT" to the part number (example: ALCD2-2N-NT for a #8 straight untinned lug).
** For stacking lugs only.

TAPERED ALUMINUM LUGS

TAL Series

- Made of high-conductivity aluminum – tin plated.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- In accordance with all NEMA standards.

Figure 1

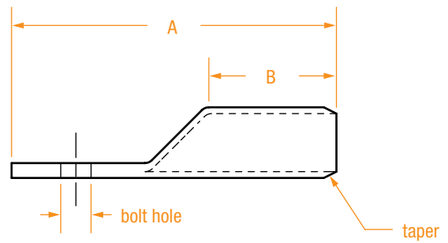
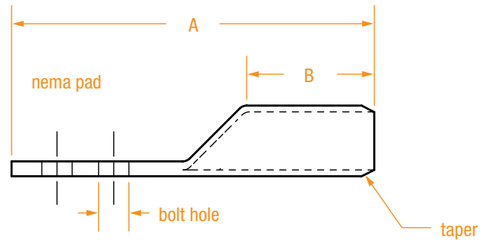


Figure 2



PART NUMBER*	FIGURE	WIRE SIZE	INSTALLING DIES	PAD WIDTH	BOLT HOLE	DIMENSIONS IN INCHES	
						A	B
TAL5	1	4	375, 162, 3/8, 37	11/16	7/16	2-3/16	7/8
TAL7	1	2	239, 348, 1/2, 6A, 42	13/16	7/16	2-1/2	1
TAL8	1	1	243, 296, 5/8, 8A, 49	7/8	7/16	3-3/16	1-1/4
TAL9	1	1/0	243, 296, BG, 5/8, 8A, 49	7/8	7/16	3-3/16	1-1/4
TAL9-2N	2	1/0	243, 296, BG, 5/8, 8A, 49	7/8	9/16	5-9/32	1-1/2
TAL10	1	2/0	245, 297, 5/8-1, 9A, 60	31/32	9/16	3-3/16	1-3/8
TAL10-2N	2	2/0	245, 297, 5/8-1, 9A, 60	31/32	9/16	5-1/2	1-1/2
TAL11	1	3/0	247, 467, 781, 10A, 66	1-1/16	9/16	3-7/16	1-1/2
TAL11-2N	2	3/0	247, 467, 781, 10A, 66	1-1/16	9/16	5-1/2	1-1/2
TAL12	1	4/0	298, 840, 11A, 71	1-1/4	9/16	3-9/16	1-1/2
TAL12-2N	2	4/0	298, 840, 11A, 71	1-1/4	9/16	5-15/16	1-3/4
TAL13	1	250	249, 840, 11A, 71	1-1/4	9/16	3-5/8	1-5/8
TAL13-2N	2	250	249, 840, 11A, 71	1-1/4	9/16	6	1-3/4

(continued)

TAPERED ALUMINUM LUGS

TAL Series (continued)

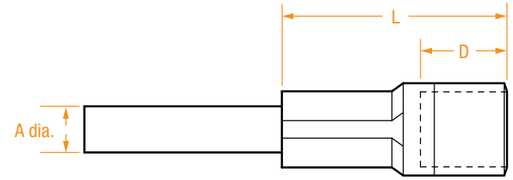
PART NUMBER*	FIGURE	WIRE SIZE	PAD WIDTH	BOLT HOLE	INSTALLING DIES	DIMENSIONS IN INCHES	
						A	B
TAL14	1	300	1-13/32	9/16	251, 470, 1.00, 12A, 96	4	2-1/4
TAL14-2N	2	300	1-13/32	9/16	251, 470, 1.00, 12A, 96	6-9/16	2-1/4
TAL15	1	350	1-9/16	9/16	299, 321, 1-1/8, 13A, 96	4-1/4	2-1/4
TAL15-2N	2	350	1-9/16	9/16	299, 321, 1-1/8, 13A, 96	6-9/16	2-1/4
TAL16-2N	2	400	1-21/32	9/16	472, 523, 1-1/8, 14A, 106	6-7/8	2-1/2
TAL18-2N	2	500	1-27/32	9/16	300, 317, 1-5/16, 15A, 106	7-5/16	3
TAL20-2N	2	600	2	9/16	473, 525, 1-5/16, 125	7-1/2	3
TAL23-2N	2	750	2-3/16	9/16	301, 527, 1-1/2, 140	8-1/4	3-3/8
TAL24-2N	2	800	2-9/32	9/16	474, 725, 1-5/8, 140	8-1/4	3-3/8
TAL28-2N	2	1,000	2-17/32	9/16	302, 292, 1-3/4, 150	9-5/8	4-5/8
TAL30-2N	2	1,500	3-3/32	9/16	478, 189	10-13/16	5-1/2
TAL32-2N	2	2,000	3-19/32	9/16	479, 225	11-7/8	6

* For untinned lugs, add "-NT" to the part number (example: TAL5-NT for a #4 untinned lug).

PIN TERMINALS

APT Series

- For Aluminum and ACSR cable.
- Fabricated from high-conductivity aluminum and soft-drawn, solid tin-plated copper wire.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- Available in a variety of cable and pin sizes.



PART NUMBER	ALUMINUM CABLE SIZE	DIE INFORMATION	PIN DIAMETER A	DIMENSIONS IN INCHES	
				L	D
APT7	#2	5/8, 296	0.250	3.25	1.78
APT9	1/0	5/8, 296	0.250	3.25	1.78
APT10	2/0	324, 840	0.312	4.22	2.28
APT12	4/0	324, 840	0.375	4.22	2.28
APT15	350	1-1/8, 299	0.460	5.25	3.00
APT18	500	140H, 301	0.750	6.30	3.41
APT23	750	140H, 301	0.750	6.30	3.41
APT28	1,000	140H, 301	0.875	6.30	3.41

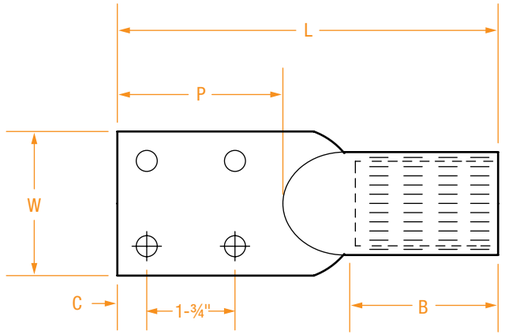
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

Available with any length pin – standard pin length is 6".

FOUR-HOLE
ALUMINUM NEMA LUGS

AL-4N Series

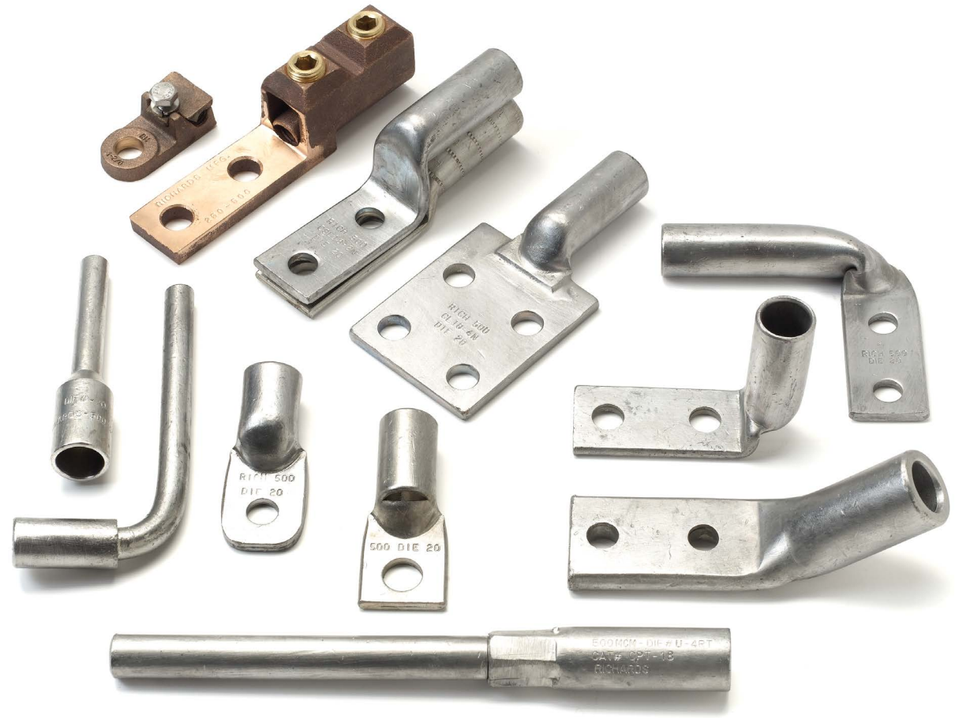
- Made of high-conductivity aluminum – tin plated.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- In accordance with all NEMA standards.



PART NUMBER	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
			B	C	L	P	W
AL15-4N	350	96, 299, 655, 1-1/8	3	5/8	7-5/16	3	3
AL18-4N	500	106A, 300, 426 1-5/16	3	5/8	7-5/16	3	3
AL23-4N	750	140H, 301, 342, 1-1/2	4	5/8	8-1/2	3	3
AL24-4N	800	140H, 474, 724, 1-5/8	4	5/8	8-1/2	3	3
AL28-4N	1,000	161, 302, 727, 1-3/4	5-5/8	5/8	10-3/8	3	3
AL28CR-4N	1,000	161, 302, 727, 1-3/4	6	5/8	11-1/4	3	3
AL29-4N	1,250	1-7/8, 727	6	5/8	11-1/8	3-3/8	3-1/8

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

Copper Compression Lugs



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SHORT-BARREL COPPER LUGS

- Made of seamless copper tubing.
- Tin-plated to resist corrosion.
- Marked with conductor sizes and die information.
- UL listed.

Figure 1

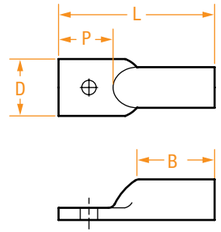


Figure 2

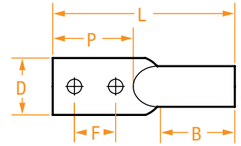
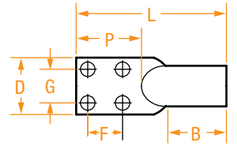


Figure 3



PART NUMBER	FIGURE	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
					L	B	P	D	F & G
SCL3	1	6	8, 9, or 10	J, 7, TE, 24	1-17/32	13/16	17/32	13/32	–
SCL3-1/4	1	6	1/4	J, 7, TE, 24	1-11/16	13/16	11/16	7/16	–
SCL3-5/16	1	6	5/16	J, 7, TE, 24	1-25/32	13/16	23/32	1/2	–
SCL5	1	4	8, 9 or 10	5/16, 8, TP, 29	1-1/2	13/16	1/2	1/2	–
SCL5-1/4	1	4	1/4	5/16, 8, TP, 29	1-3/4	13/16	11/16	1/2	–
SCL5-3/8	1	4	3/8	5/16, 8, TP, 29	1-15/16	13/16	7/8	19/32	–
SCL7-1/4	1	2	1/4	3/8, 10, TL-TN, 33	1-7/8	7/8	7/8	5/8	–
SCL7-5/16	1	2	5/16	3/8, 10, TL-TN, 33	1-7/8	7/8	7/8	5/8	–
SCL7-3/8	1	2	3/8	3/8, 10, TL-TN, 33	1-7/8	7/8	7/8	5/8	–
SCL7-2(3/8)	2	2	3/8	3/8, 10, TL-TN, 33	3	7/8	1-7/8	5/8	1
SCL7-390	1	2	3/8	3/8, 10, TL-TN, 33	1-3/4	7/8	7/8	11/16	–
SCL8-5/16	1	1	5/16	3/8, 11, TB, 37	1-31/32	7/8	25/32	11/16	–
SCL9-5/16	1	1/0	5/16	1/2, 12, TQ, 42	2-1/32	7/8	25/32	3/4	–
SCL9-3/8	1	1/0	3/8	1/2, 12, TQ, 42	2-5/32	7/8	29/32	3/4	–
SCL9-2(5/16)	2	1/0	5/16	1/2, 12, TQ, 42	2-15/16	7/8	1-21/32	3/4	7/8
SCL10-2(1/4)	2	2/0	1/4	9/16, 13, TS, 45	3-1/4	15/16	1-3/4	13/16	7/8
SCL10-2(3/8)	2	2/0	3/8	9/16, 13, TS, 45	3-1/4	15/16	1-3/4	13/16	7/8
SCL10-3/8	1	2/0	3/8	9/16, 13, TS, 45	2-9/32	15/16	29/32	13/16	–
SCL10	1	2/0	1/2	9/16, 13, TS, 45	3	1-1/8	1-3/8	13/16	7/8
SCL10-2N	2	2/0	1/2	9/16, 13, TS, 45	4-15/32	15/16	3	13/16	1-3/4

(continued)

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SHORT-BARREL COPPER LUGS

SCL Series (continued)

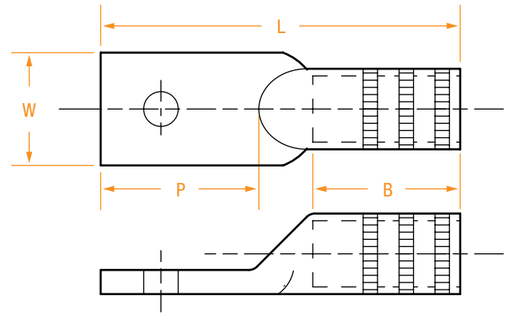
PART NUMBER	FIGURE	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
					L	B	P	D	F & G
SCL11-2(3/8)	2	3/0	3/8	5/8, 14, TU, 50	3-1/4	1-1/4	1-7/8	15/16	7/8
SCL11-3/8	1	3/0	3/8	5/8, 14, TU, 50	2-3/8	1-1/4	29/32	29/32	–
SCL11-2N	2	3/0	1/2	5/8, 14, TU, 50	4-19/32	1-1/4	3	29/32	1-3/4
SCL12-3/8	1	4/0	3/8	5/8, 15, TW-TY, 54	2-1/2	1-1/4	7/8	1	–
SCL12	1	4/0	1/2	5/8, 15, TW-TY, 54	2-1/2	1-1/4	7/8	1	–
SCL12-2N	2	4/0	1/2	5/8, 15, TW-TY, 54	4-3/4	1-1/4	3	1-1/32	1-3/4
SCL13	1	250	1/2	11/16, 16, TR, 60	2 11/16	1-1/4	1-5/32	1-3/32	–
SCL13-2N	2	250	1/2	11/16, 16, TR, 60	4-3/4	1-1/4	3	1-3/32	1-3/4
SCL14	1	300	1/2	781, 17, TV, 66	2-15/16	1-1/4	1-5/32	1-3/16	–
SCL14-2N	2	300	1/2	781, 17, TV, 66	4-13/16	1-1/4	3	1-3/16	1-3/4
SCL15	1	350	1/2	840, 18, TX, 71	3	1-1/8	1-1/2	1-9/32	–
SCL15-2N	2	350	1/2	840, 18, TX, 71	4-29/32	1-1/8	3	1-9/32	1-3/4
SCL16	1	400	5/8	15/16, 19, TX, 76	3-11/32	1-13/32	1-13/32	1-3/16	–
SCL16-2N	2	400	1/2	15/16, 19, TX, 76	5-1/32	1-3/16	3	1-13/16	1-3/4
SCL18	1	500	5/8	1, 20, TH, 87	3-5/8	1-3/8	1-1/2	1-17/32	–
SCL18-2N	2	500	1/2	1, 20, TH, 87	5-5/16	1-3/8	3	1-17/32	1-3/4
SCL20	1	600	5/8	1-1/8, 22, 96	3-13/16	1-3/8	1-3/4	1-11/16	–
SCL20-2N	2	600	1/2	1-1/8, 22, 96	4-1/8	1-3/8	3	1-11/16	1-3/4
SCL23	1	750	5/8	1-5/16, 24, 106	4-11/32	1-5/8	1-15/16	1-29/32	–
SCL23-2N	2	750	1/2	1-5/16, 24, 106	5-3/4	1-5/8	3	1-29/32	1-3/4
SCL28	1	1000	5/8	1-1/2, 27, 125	4-7/8	1-7/8	2-1/8	2-3/16	–
SCL28-2N	2	1000	1/2	1-1/2, 27, 125	6-5/32	1-7/8	3	2-3/16	1-3/4
SCL28-4N	3	1000	3/8	1-1/2, 27, 125	4-15/16	1-7/8	2-3/16	2-3/16	1-1/8
SCL30	1	1500	3/4	31	5-15/32	2	2-1/4	2-11/16	–
SCL30-2N	2	1500	1/2	31	6-17/32	2	3	2-11/16	1-3/4
SCL30-4N	3	1500	1/2	31	5-27/32	2	2-5/8	2-11/16	1-3/8
SCL32	1	2000	3/4	34	5-15/16	2-1/4	2-3/8	3-1/16	–
SCL32-2N	2	2000	1/2	34	7	2-1/4	3	3-1/16	1-3/4
SCL32-4N	3	2000	1/2	34	6-5/16	2-1/4	2-3/4	3-1/16	1-1/2

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

ONE-HOLE COPPER LUGS

CL Series

- Made of seamless copper tubing.
- Tin-plated to resist corrosion.
- Marked with conductor sizes and die information.
- UL listed.



PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
				B	L	P	W
CL2-1/4	8	1/4	1/4, 6, TC, 21	1	1-25/32	19/32	13/32
CL2-5/16	8	5/16	1/4, 6, TC, 21	1	1-15/16	3/4	7/16
CL2-3/8	8	3/8	1/4, 6, TC, 21	1	1-15/16	3/4	15/16
CL3-1/4	6	1/4	J, 7, TE, 24	1-1/8	2-1/8	3/4	1/2
CL3-5/16	6	5/16	J, 7, TE, 24	1-1/8	2-1/8	3/4	1/2
CL3-3/8	6	3/8	J, 7, TE, 24	1-1/8	2-1/8	3/4	11/16
CL5-1/4	4	1/4	5/16, 8, TP, 29	1-3/16	2-1/16	3/4	5/8
CL5-5/16	4	5/16	5/16, 8, TP, 29	1-3/16	2-1/16	3/4	5/8
CL5-3/8	4	3/8	5/16, 8, TP, 29	1-3/16	2-1/16	3/4	5/8
CL7-1/4	2	1/4	3/8, 10, TL-TN, 33	1-1/4	2-1/4	3/4	11/16
CL7-5/16	2	5/16	3/8, 10, TL-TN, 33	1-1/4	2-1/4	3/4	11/16
CL7-3/8	2	3/8	3/8, 10, TL-TN, 33	1-1/4	2-1/4	3/4	11/16
CL7	2	1/2	3/8, 10, TL-TN, 33	1-1/4	2-5/8	1	7/8
CL8-1/4	1	1/4	3/8, 11, TB, 37	1-3/8	2-43/64	57/64	11/16
CL8-5/16	1	5/16	3/8, 11, TB, 37	1-3/8	2-43/64	57/64	11/16
CL8-3/8	1	3/8	3/8, 11, TB, 37	1-3/8	2-43/64	57/64	11/16
CL8	1	1/2	3/8, 11, TB, 37	1-3/8	2-57/64	1-7/64	3/4
CL9-5/16	1/0	5/16	1/2, 12, TQ, 42	1-7/16	2-49/64	57/64	3/4
CL9-3/8	1/0	3/8	1/2, 12, TQ, 42	1-7/16	2-49/64	57/64	3/4
CL9	1/0	1/2	1/2, 12, TQ, 42	1-7/16	2-63/64	1-7/64	3/4
CL10-5/16	2/0	5/16	9/16, 13, TS, 45	1-1/2	2-57/64	57/64	13/16
CL10-3/8	2/0	3/8	9/16, 13, TS, 45	1-1/2	2-57/64	57/64	13/16
CL10	2/0	1/2	9/16, 13, TS, 45	1-1/2	3-7/64	1-7/64	13/16

(continued)

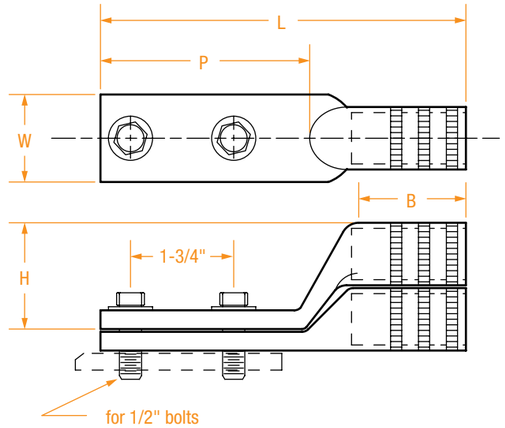
ONE-HOLE COPPER LUGS

PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
				B	L	P	W
CL11-5/16	3/0	5/16	5/8, 14, TU, 50	1-1/2	2-59/64	57/64	29/32
CL11-3/8	3/0	3/8	5/8, 14, TU, 50	1-1/2	3-9/64	1-7/64	29/32
CL11	3/0	1/2	5/8, 14, TU, 50	1-1/2	3-9/64	1-7/64	29/32
CL12-5/16	4/0	5/16	5/8-1, 15, TW-TY, 54	1-9/16	3-1/64	57/64	1
CL12-3/8	4/0	3/8	5/8-1, 15, TW-TY, 54	1-9/16	3-15/64	1-7/64	1
CL12	4/0	1/2	5/8-1, 15, TW-TY, 54	1-9/16	3-15/64	1-7/64	1
CL13-5/16	250	5/16	11/16, 16, TR, 60	1-5/8	3-11/64	57/64	1-1/8
CL13-3/8	250	3/8	11/16, 16, TR, 60	1-5/8	3-25/64	1-7/64	1-1/8
CL13	250	1/2	11/16, 16, TR, 60	1-5/8	3-25/64	1-7/64	1-1/8
CL14-3/8	300	3/8	781, 17, TV, 66	2	3-51/64	1-7/64	1-7/32
CL14	300	1/2	781, 17, TV, 66	2	3-51/64	1-7/64	1-7/32
CL15-3/8	350	3/8	840, 18, TX, 71	2	3-55/64	–	1-9/32
CL15	350	1/2	840, 18, TX, 71	2	3-55/64	–	1-9/32
CL16-3/8	400	3/8	15/16, 19, TX, 76	2	3-59/64	–	1-13/32
CL16	400	1/2	15/16, 19, TX, 76	2	4-5/32	1-7/16	1-13/32
CL16-5/8	400	5/8	15/16, 19, TX, 76	2	4-5/32	1-7/16	1-13/32
CL18	500	1/2	1, 20, TH, 87	2-1/2	4-3/8	1-7/16	1-9/16
CL18-5/8	500	5/8	1, 20, TH, 87	2-1/2	4-3/8	1-7/16	1-9/16
CL20	600	1/2	1-1/8, 22, 96, 94H	2-11/16	5-1/8	1-3/4	1-11/16
CL20-5/8	600	5/8	1-1/8, 22, 96, 94H	2-11/16	5-1/8	1-3/4	1-11/16
CL23	750	1/2	1-5/16, 24, 106	2-7/8	5-11/16	1-15/16	1-29/32
CL23-5/8	750	5/8	1-5/16, 24, 106	2-7/8	5-11/16	1-15/16	1-29/32
CL23-3/4	750	3/4	1-5/16, 24, 106	2-7/8	5-11/16	1-15/16	1-29/32
CL28	1000	1/2	1-1/2, 27, 125	3	6-1/4	2-1/8	2-3/16
CL28-5/8	1000	5/8	1-1/2, 27, 125	3	6-1/4	2-1/8	2-3/16
CL28-3/4	1000	3/4	1-1/2, 27, 125	3	6-1/4	2-1/8	2-3/16

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

STRAIGHT & STACKING TWO-HOLE COPPER NEMA LUGS

- Made of seamless copper tubing.
- Tin-plated to resist corrosion.
- The “CSL” lugs are offset to allow the connection of two lugs to a common surface.
- The “offset” allows clearance between the lug barrels.
- (UL) UL listed.



STRAIGHT PART NUMBER	STACKING PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
					B	H*	L	P	W
CL3-2N-1/4		6	1/4	J, 7, TE, 24	1	–	4-1/2	3	15/32
CL3-2N-5/16		6	5/16	J, 7, TE, 24	1	–	4-1/2	3	17/32
CL5-2N-1/4		4	1/4	5/16, 8, TP, 29	1	–	4-1/2	3	1/2
CL5-2N-5/16		4	5/16	5/16, 8, TP, 29	1	–	4-1/2	3	1/2
CL5-2N***	CSL5-2N	4	1/2	5/16, 8, TP, 29	1	–	4-1/2	3	1
CL7-2N-1/4		2	1/4	3/8, 10, TL-TN, 33	1-1/4	–	4-9/16	3	3/4
CL7-2N-5/16		2	5/16	3/8, 10, TL-TN, 33	1-1/4	–	4-9/16	3	3/4
CL7-2N	CSL7-2N	2	1/2	3/8, 10, TL-TN, 33	1-1/4	–	4-9/16	3	3/4
CL8-2N-1/4		1	1/4	3/8, 11, TB, 37	1-3/8	–	3-3/8	3	21/32
CL8-2N-5/16		1	5/16	3/8, 11, TB, 37	1-1/2	–	3-3/8	3	21/32
CL9-2N-5/16		1/0	5/16	1/2, 12, TQ, 42	1-1/4	–	4-9/16	3	3/4
CL9-2N-3/8		1/0	3/8	1/2, 12, TQ, 42	1-1/4	–	4-9/16	3	3/4
CL9-2N	CSL9-2N	1/0	1/2	1/2, 12, TQ, 42	1-1/4	–	4-9/16	3	3/4
CL10-2N-3/8		2/0	3/8	9/16, 13, TS, 45	1-1/2	–	5-1/32	3	27/32
CL10-2N	CSL10-2N	2/0	1/2	9/16, 13, TS, 45	1-1/2	1-1/2	5-1/32	3	27/32
CL11-2N-3/8		3/0	3/8	5/8, 14, TU, 50	1-1/2	–	5-1/8	3	29/32
CL11-2N	CSL11-2N	3/0	1/2	5/8, 14, TU, 50	1-1/2	1-5/8	5-1/8	3	29/32
CL12-2N-3/8		4/0	3/8	5/8-1, 15, TW-TY, 54	1-5/8	–	5-3/16	3	1-1/32
CL12-2N	CSL12-2N	4/0	1/2	5/8-1, 15, TW-TY, 54	1-5/8	1-11/16	5-3/16	3	1-1/32

(continued)

STRAIGHT & STACKING TWO-HOLE COPPER NEMA LUGS

CL-2N & CSL-2N Series (continued)

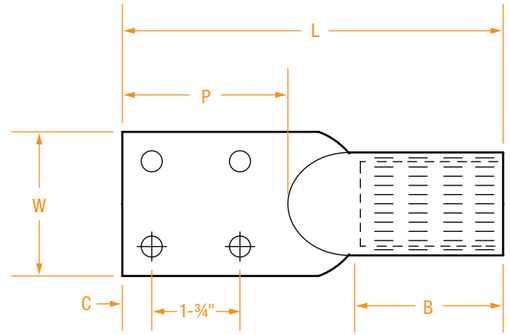
STRAIGHT PART NUMBER	STACKING PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
					B	H*	L	P	W
CL13-2N-3/8		250	3/8	11/16, 16, TR, 60	1-3/4	–	5-1/4	3	1-1/8
CL13-2N	CSL13-2N	250	1/2	11/16, 16, TR, 60	1-3/4	1-3/4	5-1/4	3	1-7/32
CL14-2N-3/8		300	3/8	781, 17, TV, 66	2	–	5-3/4	3	1-7/32
CL14-2N	CSL14-2N	300	1/2	781, 17, TV, 66	2	1-13/16	5-3/4	3	1-7/32
CL15-2N-3/8		350	3/8	840, 18, TX, 71	2	–	5-3/4	3	1-5/16
CL15-2N	CSL15-2N	350	1/2	840, 18, TX, 71	2	1-7/8	5-3/4	3	1-5/16
CL16-2N-3/8		400	3/8	15/16, 19, TX, 76	2-1/8	–	6	3-1/16	1-13/32
CL16-2N	CSL16-2N	400	1/2	15/16, 19, TX, 76	2-1/8	1-15/16	6	3-3/32	1-13/32
CL18-2N	CSL18-2N	500	1/2	1, 20, TH, 87	2-1/4	2-1/16	6	3-1/8	1-9/16
CL20-2N	CSL20-2N	600	1/2	1-1/8, 22, 96	2-5/8	2-3/16	6-23/32	3-1/8	1-11/16
CL23-2N	CSL23-2N	750	1/2	1-5/16, 24, 106	2-7/8	2-5/16	6-3/4	3-1/8	1-3/4
CL28-2N	CSL28-2N	1000	1/2	1-1/2, 27, 125	2-15/16	2-5/8	7-1/4	3-1/4	2-5/32
CL28-2N-1-3/4	CSL28-2N-1-3/4	1000	1/2	1-1/2, 27, 125	2-15/16	2-5/8	7-1/4	3-1/4	1-3/4**
CL29-2N	CSL29-2N	1250	1/2	1-5/8, 29	2-1/2	–	7-1/4	3-1/16	1-11/16
CL30-2N	CSL30-2N	1500	1/2	1-3/4, 31, 150	3-3/16	–	7-1/2	3	2-11/16
CL32-2N	CSL32-2N	2000	1/2	2.00, 34, 175	3-3/16	– –	8-1/16	3-3/16	3-1/16

* Only for stacking lugs.
** Trimmed to 1-3/4" max. to fit side by side on NEMA spades.
*** Brazed pad.

FOUR-HOLE COPPER LUGS

CL-4N Series

- Made of seamless copper tubing.
- Tin-plated to resist corrosion.
- Marked with conductor sizes and die information.
- Meets all NEMA standards.
- UL listed.



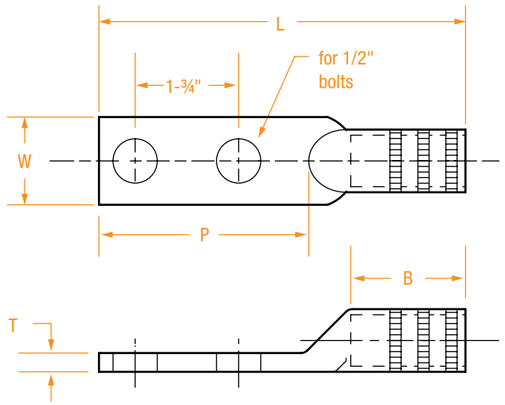
PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	C	L	P	W
CL18-4N	500	1/2	20, 1, 87	2-1/4	5/8	6-1/4	3-1/8	3
CL23-4N	750	1/2	24, 1-5/16, 106	2-7/8	5/8	7	3-1/8	3
CL28-4N	1000	1/2	1-1/2, 27, 125	3	5/8	7-1/4	3-1/4	3
CL29-4N	1250	1/2	1-5/8, 29	3-1/4	5/8	7-3/4	3	3
CL30-4N	1500	1/2	1-3/4, 31, 150	3-3/16	5/8	7-1/2	3	2-11/16
CL32-4N	2000	1/2	2.00, 34, 175	3-7/16	5/8	8-1/16	3-3/16	3-1/16
CL33-4N	2500	1/2	486, L486RT	3-5/8	5/8	8-3/4	3-1/8	3-3/4
CL371885	2750	1/2	729	3-3/4	5/8	9	3-1/8	3

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

HEAVY-DUTY COPPER LUGS

HDCL Series

- Designed for heavy-duty applications.
- Features include heavy wall barrel and thicker contact pad.
- Made of seamless copper tubing.
- Tin-plated to resist corrosion.
- Marked with conductor sizes and die information.
- UL listed.



PART NUMBER*	CONDUCTOR SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
			B	T	L	P	W
HDCL7-2N	2	TQ, 42, 163, 1/2	1-1/2	0.17	5	3	15/16
HDCL8-2N	1	TS, 45, 241, 1/2	1-1/2	0.18	5-1/4	3	15/16
HDCL9-2N	1/0	TU, 50, 165, 5/8	1-1/2	0.19	5-1/4	3	15/16
HDCL10-2N	2/0	TZ, 166, 5/8	1-1/2	0.26	5-1/2	3	15/16
HDCL11-2N	3/0	62, 167, 737	1-1/2	0.29	5-1/2	3	1
HDCL12-2N	4/0	71, 168, 840	1-5/8	0.30	5-1/2	3	1-1/4
HDCL13-2N	250	80, 169	1-5/8	0.34	5-5/8	3	1-1/4
HDCL14-2N	300	87, 170, 1	2-1/4	0.39	6-9/16	3-1/4	1-1/2
HDCL15-2N	350	94, 299, 1-1/8	2-1/4	0.43	6-9/16	3-1/4	1-7/16
HDCL18-2N	500	112, 210, 1-5/16	3	0.48	7-5/16	3-1/4	1-3/4
HDCL20-2N	600	125, 608, 1-1/2	3	0.51	7-1/2	3-5/8	1-15/16
HDCL23-2N	750	138, 627, 1-5/8	3-3/8	0.64	8-1/4	3-5/8	2-3/16
HDCL28-2N	* 1000	160, 345, 2	4-5/8	0.62	9-5/8	3-5/8	2-5/8

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For heavy-duty one-hole lug, delete the "-2N" from the part number. For use with a different bolt size, add the bolt size to the part number (example: HDCL9-2N-3/8 will have two 7/16" holes for 3/8" bolts). For four-hole lugs, change "-2N" to "-4N".

TAPERED COPPER LUGS

TCL Series

- Made of seamless pure copper tubing.
- Tin-plated to resist corrosion.
- Tapered for high-voltage connections.
- One-hole and two-hole NEMA standard.
- UL listed.

Figure 1

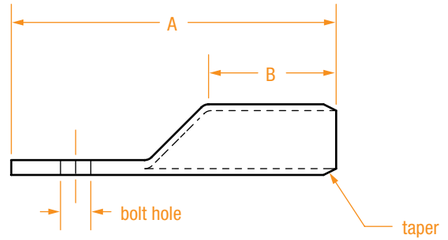
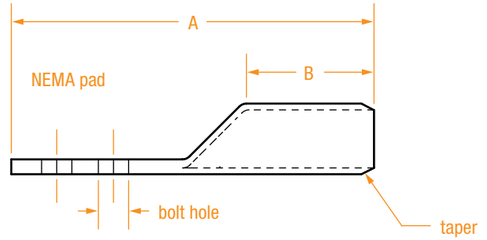


Figure 2



PART NUMBER*	FIGURE	CONDUCTOR SIZE		INSTALLING DIES	DIMENSIONS IN INCHES				
		CONCENTRIC	COMPACT		L	B	PAD WIDTH	PAD THICKNESS	BOLT HOLE
TCL5	1	#4	#4	5/16, 8, TP, 29	2-3/16	1-1/4	5/8	3/32	7/16
TCL7	1	#2	#2 & #1	3/8, 10, TL-TN, 33	2-5/16	1-3/8	5/8	7/64	7/16
TCL8	1	#1	#1/0	3/8, 11, TB, 37	2-1/2	1-3/8	11/16	7/64	7/16
TCL9	1	#1/0	#2/0	1/2, 12, TQ, 42	2-5/8	1-3/8	13/16	1/8	7/16
TCL9-2N	2	#1/0	#2/0	1/2, 12, TQ, 42	4-7/8	1-3/8	13/16	1/8	9/16
TCL10	1	#2/0	#3/0	9/16, 13, TS, 45	3	1-1/2	7/8	1/8	9/16
TCL10-2N	2	#2/0	#3/0	9/16, 13, TS, 45	5	1-1/2	7/8	1/8	9/16
TCL11	1	#3/0	#4/0	5/8, 14, TU, 50	3-1/8	1-1/2	15/16	1/8	9/16
TCL11-2N	2	#3/0	#4/0	5/8, 14, TU, 50	5-1/8	1-1/2	15/16	1/8	9/16
TCL12	1	#4/0	250MCM	5/8-1, 15, TW-TY	3-5/16	1-5/8	1	9/64	9/16
TCL12-2N	2	#4/0	250MCM	5/8-1, 15, TW-TY	5-1/4	1-5/8	1	9/64	9/16
TCL13	1	250MCM	300MCM	11/16, 16, TR, 60	3-3/8	1-5/8	1-1/8	5/32	9/16
TCL13-2N	2	250MCM	300MCM	11/16, 16, TR, 60	5-5/16	1-5/8	1-1/8	5/32	9/16

(continued)

TAPERED COPPER LUGS

TCL Series (continued)

PART NUMBER*	FIGURE	CONDUCTOR SIZE		INSTALLING DIES	DIMENSIONS IN INCHES				
		CONCENTRIC	COMPACT		L	B	PAD WIDTH	PAD THICKNESS	BOLT HOLE
TCL14	1	300MCM	350MCM	781, 17, TV, 66	3-3/4	2	1-3/16	5/32	9/16
TCL14-2N	2	300MCM	350MCM	781, 17, TV, 66	5-3/4	2	1-3/16	5/32	9/16
TCL15	1	350MCM	400MCM	840, 18, TX, 71	3-13/16	2	1-5/16	15/16	9/16
TCL15-2N	2	350MCM	400MCM	840, 18, TX, 71	5-13/16	2	1-5/16	15/16	9/16
TCL16-2N	2	400MCM	500MCM	15/16, 19, 76	6	2-1/8	1-7/16	3/16	9/16
TCL18-2N	2	500MCM	600MCM	1, 20, 87	6-3/16	2-1/4	1-9/16	15/64	9/16
TCL20-2N	2	600MCM	750MCM	1-1/8, 22, 94H	6-11/16	2-11/16	1-11/16	17/64	9/16
TCL23-2N	2	750MCM	–	1-5/16, 24, 106	7	2-7/8	1-15/16	19/64	9/16
TCL24-2N	2	800MCM	–	1-5/16, 25, 106	7-1/8	2-15/16	2	19/64	9/16
TCL28-2N	2	1000MCM	–	1-1/2, 27, 125	7-1/4	3	2-3/16	21/64	9/16

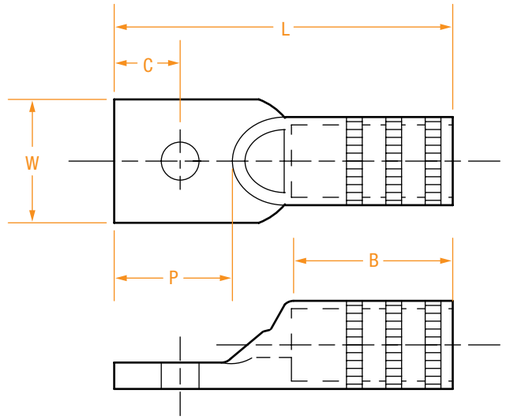
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* "-2N" indicates a two-hole NEMA pad.

ONE-HOLE PEEPHOLE COPPER LUGS

CL-P Series

- Opening allows inspection to ensure complete cable insertion.
- Made of seamless copper tubing.
- Tin-plated to resist corrosion.
- Marked with conductor sizes and die information.
- (UL) UL listed.



PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	C	L	P	W
CL2-1/4-P	8	1/4	1/4, 6, TC, 21	1/2	5/16	1-7/32	19/32	13/32
CL3-1/4-P	6	1/4	J, 7, TE, 24	13/16	3/8	1-3/4	3/4	1/2
CL3-5/16-P	6	5/16	J, 7, TE, 24	13/16	3/8	1-3/4	3/4	1/2
CL3-3/8-P	6	3/8	J, 7, TE, 24	13/16	3/8	1-3/4	3/4	9/16
CL5-1/4-P	4	1/4	5/16, 8, TP, 29	29/32	3/8	1-63/64	57/64	19/32
CL5-5/16-P	4	5/16	5/16, 8, TP, 29	29/32	3/8	1-63/64	57/64	19/32
CL5-3/8-P	4	3/8	5/16, 8, TP, 29	29/32	3/8	1-63/64	57/64	19/32
CL7-1/4-P	2	1/4	3/8, 10, TL-TN, 33	7/8	3/8	2	57/64	5/8
CL7-5/16-P	2	5/16	3/8, 10, TL-TN, 33	7/8	3/8	2	57/64	5/8
CL7-3/8-P	2	3/8	3/8, 10, TL-TN, 33	7/8	3/8	2	57/64	5/8
CL7-1/2-P	2	1/2	3/8, 10, TL-TN, 33	7/8	17/32	2-5/32	1-7/64	3/4
CL8-1/4-P	1	1/4	3/8, 11, TB, 37	7/8	3/8	2-9/64	57/64	11/16
CL8-5/16-P	1	5/16	3/8, 11, TB, 37	7/8	3/8	2-9/64	57/64	11/16
CL8-3/8-P	1	3/8	3/8, 11, TB, 37	7/8	3/8	2-9/64	57/64	11/16
CL8-1/2-P	1	1/2	3/8, 11, TB, 37	7/8	17/32	2-15/64	1-7/64	3/4
CL9-5/16-P	1/0	5/16	1/2, 12, TQ, 42	7/8	3/8	2-9/64	57/64	3/4
CL9-3/8-P	1/0	3/8	1/2, 12, TQ, 42	7/8	3/8	2-9/64	57/64	3/4
CL9-P	1/0	1/2	1/2, 12, TQ, 42	7/8	17/32	2-15/64	1-7/64	3/4

(continued)

ONE-HOLE PEEPHOLE COPPER LUGS

CL-P Series (continued)

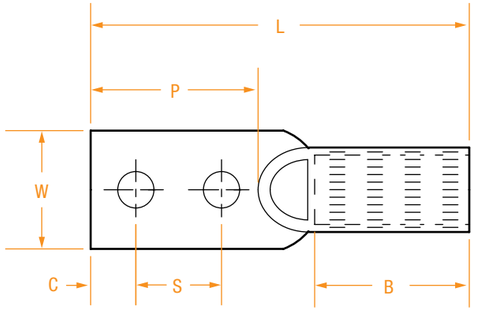
PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	C	L	P	W
CL10-5/16-P	2/0	5/16	9/16, 13, TS, 45	15/16	3/8	2-5/64	57/64	13/16
CL10-3/8-P	2/0	3/8	9/16, 13, TS, 45	15/16	3/8	2-5/64	57/64	13/16
CL10-P	2/0	1/2	9/16, 13, TS, 45	15/16	17/32	2-9/32	1-7/64	13/16
CL11-5/16-P	3/0	5/16	5/8, 14, TU, 50	1-1/8	3/8	2-17/64	57/64	29/32
CL11-3/8-P	3/0	3/8	5/8, 14, TU, 50	1-1/8	17/32	2-1/2	1-7/64	29/32
CL11-P	3/0	1/2	5/8, 14, TU, 50	1-1/8	17/32	2-1/2	1-7/64	29/32
CL12-5/16-P	4/0	5/16	5/8-1, 15 TW-TY, 54	1-3/16	3/8	2-7/16	57/64	1
CL12-3/8-P	4/0	3/8	5/8-1, 15 TW-TY, 54	1-3/16	17/32	2-9/16	1-7/64	1
CL12-1/2-P	4/0	1/2	5/8-1, 15 TW-TY, 54	1-3/16	17/32	2-9/16	1-7/64	1
CL13-3/8-P	250	3/8	11/16, 16, TR, 60	1-1/4	17/32	2-13/16	1-7/64	1-1/8
CL13-P	250	1/2	11/16, 16, TR, 60	1-1/4	17/32	2-13/16	1-7/64	1-1/8
CL14-P	300	1/2	781, 17, TV, 66	1-1/4	17/32	2-13/16	1-7/64	1-7/32
CL14-5/8-P	300	5/8	781, 17, TV, 66	1-1/4	21/32	3-1/32	1-11/32	1-7/32
CL15-P	350	1/2	840, 18, TX, 71	1-1/4	17/32	2-15/16	1-7/64	1-9/32
CL15-5/8-P	350	5/8	840, 18, TX, 71	1-1/4	21/32	3-3/32	1-11/32	1-9/32
CL16-P	400	1/2	15/16, 19, TX 76	1-1/2	21/32	3-9/32	1-11/32	1-13/32
CL16-5/8-P	400	5/8	15/16, 19, TX 76	1-1/2	21/32	3-9/32	1-11/32	1-13/32
CL18-P	500	1/2	1, 20, TH, 87	1-3/4	21/32	3-17/32	1-11/32	1-17/32
CL18-5/8-P	500	5/8	1, 20, TH, 87	1-3/4	21/32	3-17/32	1-11/32	1-17/32
CL20-P	600	1/2	1-1/8, 22, 96	1-7/16	7/8	3-7/8	1-3/4	1-11/16
CL20-5/8-P	600	5/8	1-1/8, 22, 96	1-7/16	7/8	3-7/8	1-3/4	1-11/16
CL23-P	750	1/2	1-5/16, 24, 106	1-5/8	7/8	4-3/8	1-15/16	1-7/8
CL23-5/8-P	750	5/8	1-5/16, 24, 106	1-5/8	7/8	4-3/8	1-15/16	1-7/8
CL23-3/4-P	750	3/4	1-5/16, 24, 106	1-5/8	31/32	4-3/8	1-15/16	1-7/8
CL28-P	1000	1/2	1-1/2, 27, 125	1-15/16	15/16	4-15/16	2-1/8	2-5/32
CL28-5/8-P	1000	5/8	1-1/2, 27, 125	1-15/16	15/16	4-15/16	2-1/8	2-5/32
CL28-3/4-P	1000	3/4	1-1/2, 27, 125	1-15/16	1-1/16	4-15/16	2-1/8	2-5/32
CL30-3/4-P	1500	3/4	1-3/4, 31, 150	2	1-1/8	5-15/32	2-1/4	2-43/64
CL32-3/4-P	2000	3/4	2.00, 34, 150	2-1/4	1-3/16	5-15/16	2-3/8	3-1/16

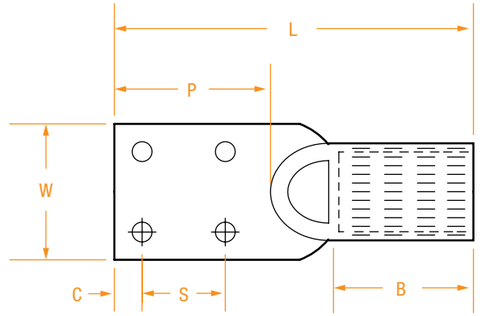
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

TWO- & FOUR-HOLE PEEPHOLE COPPER NEMA LUGS

CL-N-P Series

- Made of seamless copper tubing.
- Tin-plated to resist corrosion.
- Marked with conductor sizes and die information.
- UL listed.





PART NUMBER*	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES					
				B	C	L	P	S	W
CL10-2N-P	2/0	1/2	9/16, 13, TS, 45	15/16	5/8	4-15/32	3	1-3/4	13/16
CL11-2N-P	3/0	1/2	5/8, 14, TU, 50	1	5/8	4-5/8	3	1-3/4	29/32
CL12-2N-P	4/0	1/2	5/8-1, 15, TW-TY, 54	1	5/8	4-11/16	3	1-3/4	1
CL13-2N-P	250	1/2	11/16, 16, TR, 60	1-1/16	5/8	4-3/4	3	1-3/4	1-3/32
CL14-2N-P	300	1/2	781, 17, TV, 66	1-1/16	5/8	4-13/16	3	1-3/4	1-3/16
CL15-2N-P	350	1/2	840, 18, TX, 71	1-1/8	5/8	4-15/16	3	1-3/4	1-9/32
CL16-2N-P	400	1/2	15/16, 19, TX, 76	1-3/16	5/8	5-1/8	3	1-3/4	1-3/8
CL18-2N-P	500	1/2	1, 20, TH, 87	1-3/8	5/8	5-5/16	3	1-3/4	1-17/32
CL20-2N-P	600	1/2	1-1/8, 22, 96	1-3/8	5/8	5-1/2	3	1-3/4	1-11/16
CL23-2N-P	750	1/2	1-5/16, 24, 106	1-5/8	5/8	5-3/4	3	1-3/4	1-29/32
CL28-2N-P	1000	1/2	1-1/2, 27, 125	1-7/8	5/8	6-5/32	3	1-3/4	2-11/64
CL30-2N-P	1500	1/2	1-3/4, 31, 150	2	5/8	6-17/32	3	1-3/4	2-43/64
CL32-2N-P	2000	1/2	2.00, 34, 150	2-1/4	5/8	7	3	1-3/4	3-1/16
CL30-4N-P	*1500	1/2	1-3/4, 31, 150	2	5/8	6-17/32	3	1-3/4	3-1/16
CL32-4N-P	*2000	1/2	2.00, 34, 150	2-1/4	5/8	7	3	1-3/4	3-1/16

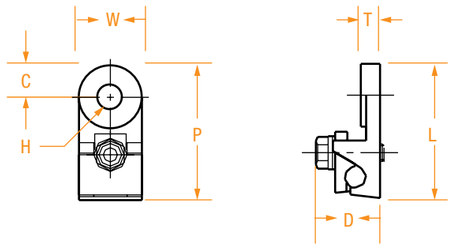
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* "-2N" indicates a two-hole NEMA pad. – "-4N" indicates a four-hole NEMA pad.

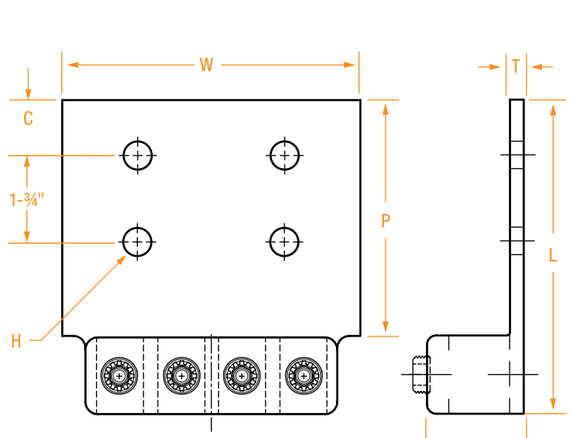
MECHANICAL COPPER LUGS

ML Series

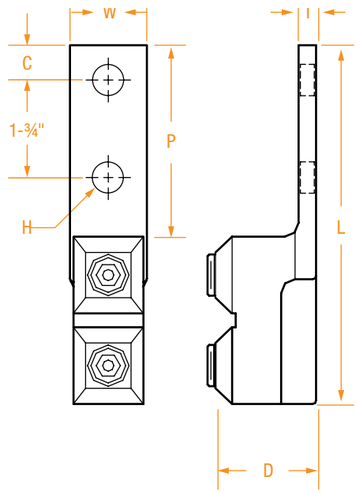
- Made from high-conductivity copper alloy.
- Designed to accept a range of conductor sizes.



ML8-10



B4CC-4N



ML13-18

PART NUMBER	CABLE SIZE	CABLE PORTS	HOLES IN PAD	DIMENSIONS IN INCHES						
				L	W	C	H	D	T	P
ML13-18	250-500	1	2	5	1-1/2	5/8	9/16	1-3/4	3/8	3-1/4
ML8-10	#1-2/0	1	1	2-3/8	1-13/32	9/16	9/16	1-3/32	11/32	1-3/8
B3CC-4N*	250-500	3	4	6	4	7/8	9/16	2 to 2-1/4	1/4	4-3/8
B4CC-4N**	250-500	4	4*	6-3/8	6	1-1/8	9/16	2 to 2-1/4	5/16	4-3/4

* B3CC-4N (not shown in the above photo) has 1-3/4" hole spacing front to back and side to side.
** B4CC-4N has 3" side-to-side hole spacing and 1-3/4" hole spacing front to back as shown in the drawing.

ANGLED COPPER LUGS

CL-2N-90 Series

- Made of seamless copper tubing.
- Lugs available with a “BEND” or a “TWIST.”
- Specify the angle in the part number.
- Tin-plated to resist corrosion.
- Marked with conductor sizes and die information.
- Meets all NEMA standards.

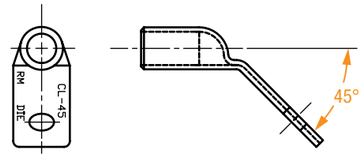


Figure 1
45° Bend
Add “-45” to part #

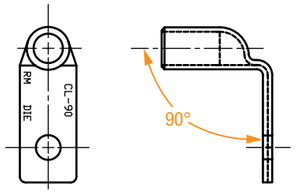


Figure 2
90° Bend
Add “-90” to part #

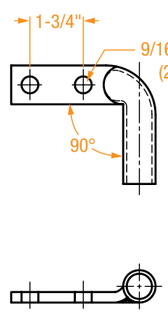


Figure 3
90° Left Twist
Add “-90L” to part #

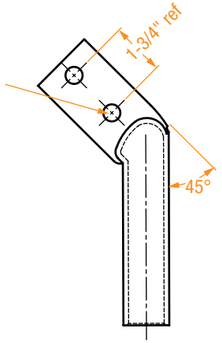


Figure 4
45° Left Twist
Add “-45L” to part #

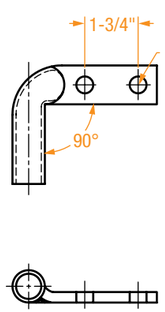


Figure 5
90° Right Twist
Add “-90R” to part #

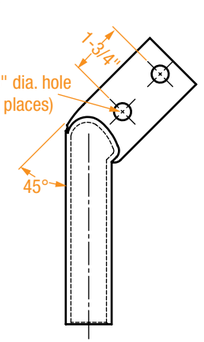


Figure 6
45° Right Twist
Add “-45R” to part #

To determine the correct part number, use the part numbers of the basic copper lug and add the following suffixes.

- “-45” = 45° bend straight up – Figure 1.
- “-90” = 90° bend straight up – Figure 2
- “-90L” = 90° twist to the LEFT – Figure 3
- “-45L” = 45° twist to the LEFT – Figure 4.
- “-90R” = 90° twist to the RIGHT – Figure 5
- “-45R” = 45° twist to the RIGHT – Figure 6.

FOR OTHER ANGLES AND CONFIGURATIONS, PLEASE CONTACT THE FACTORY.

SHROUDED COPPER LUGS

CL-66 Series

- Made of seamless copper tubing.
- Hot tin dipped.
- The shroud prevents water from seeping into the copper conductor strands and minimizes taping.
- Contact the factory for other sizes.

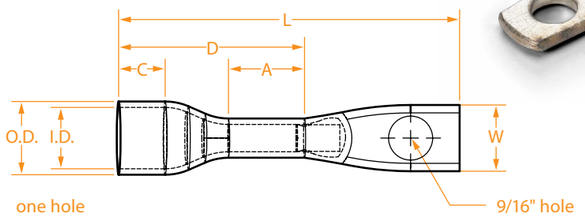


Figure 1

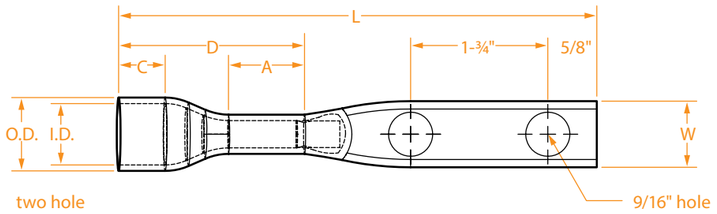


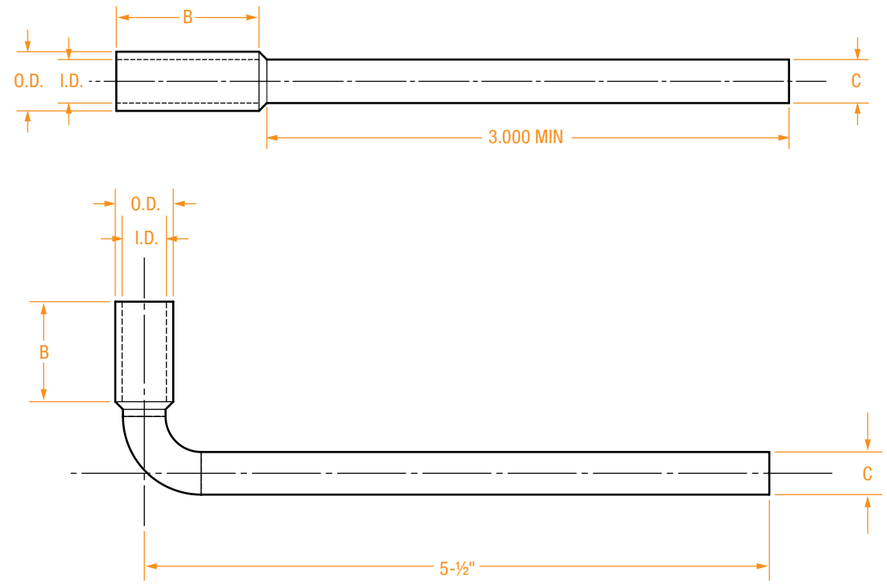
Figure 2

PART NUMBER	FIG	CONDUCTOR	APPROXIMATE DIMENSIONS IN INCHES							DIE INDEX
			O.D.	I.D.	A	C	D	L	W	
CL5-1-66PS	1	#4 STR	0.72	.625	1.25	.625	2.125	3.5	.875	½, 12
CL5-2N-066	2	#4 STR	.72	.55	1.625	.625	2.50	6	.875	½, 12
CL7-2N-066	2	#2 STR	.95	.80	1.25	.80	2.50	6-1/8	.875	163

COPPER PIN TERMINALS

CPT Series

- The barrel is made of seamless copper tubing.
- The pin is made of solid copper rod.
- Connection brazed watertight.
- Crimp with standard dies.
- Hot tin dipped.
- Contact the factory for other sizes.

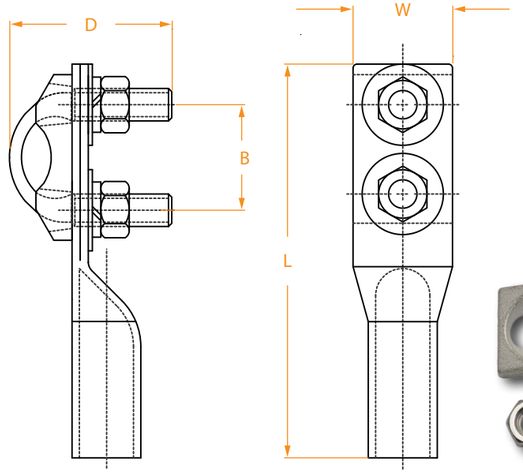


PART NUMBER	FIG	CONDUCTOR	APPROXIMATE DIMENSIONS IN INCHES				DIE INDEX
			I.D.	BARREL O.D.	B (MIN)	PIN O.D.	
CPT5	1	#4 Cu str	.25	.34	.82	0.250	5/16, 8
CPT9	1	1/0 Cu str	.39	.51	.88	0.375	½, 12
CPT10	1	2/0 Cu str	.44	.56	.94	0.375	9/16, 13
CPT12	1	4/0 Cu str	.55	.69	1.00	0.460	5/8-1, 15
CPT15	1	350 Cu str	.70	.88	1.12	0.562	840, 18
CPT18	1	500 Cu str	.83	1.06	1.38	0.562	1, 20
CPT5-90	2	#4 Cu str	.25	.34	.81	0.375	5/16, 8
CPT9-90	2	1/0 Cu str	.39	.51	.88	0.375	½, 12
CPT12-90	2	4/0 Cu str	.55	.69	1.00	0.460	5/8-1, 15
CPT15-90	2	350 Cu str	.70	.88	1.12	0.562	840, 18
CPT18-90	2	500 Cu str	.83	1.06	1.38	0.562	1, 20

RING BUS
COPPER LUGS ASSEMBLY

MT Series

- Designed to connect secondary cable to the "ring bus" of a network system
- Ideal for neutral connections in network vaults and manholes
- Lug, U-Bolt and Bronze Saddle are tin-plated
- Hardware includes star and flat washers and nuts to tighten down U-Bolt



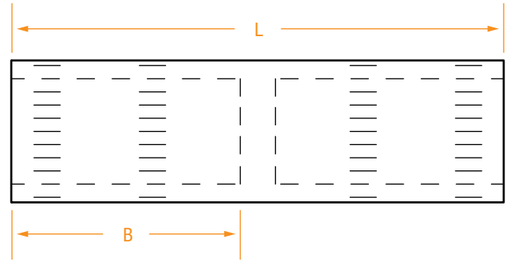
PART NUMBER	U BOLT SIZE	LUG SIZE	APPROXIMATE DIMENSIONS IN INCHES			
			D	B	L	W
MT18-12	500 MCM	4/0 AWG	2 3/8	1-3/8	5-1/8	1 17/32
MT18	500 MCM	500 MCM	2-1/2	1-5/8	6-1/16	1 17/32
MT23-18	750 MCM	500 MCM	2-1/2	1-5/8	6-1/16	1 17/32
MT23	750 MCM	750 MCM	2-1/2	1-5/8	7	1-29/32

Aluminum Compression Connectors

SHORT ALUMINUM SPLICES

SALC Series

- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.



PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
SALC3	6	TP, 29, 346, 161, 5/16	3/4	1-5/8
SALC5	4	TB, 37, 375, 162	7/8	1-7/8
SALC7	2	TQ, 45, 348, 6A, 1/2, 163	15/16	2
SALC8	1	TQ, 45, 348, 6A, 1/2, 163	15/16	2
SALC9	1/0	TU, BG, 8A, 5/8, 52, 243	1	2-1/8
SALC10	2/0	TWTY, 297, 9A, 5/8-1, 58	1-3/32	2-5/16
SALC11	3/0	TV, 10A, 781, 66, 247	1-1/4	2-5/8
SALC12	4/0	TX, 298, 11A, 840, 71H	1-5/16	2-3/4
SALC13	250	TX, 11A, 840, 76, 249	1-3/8	2-15/16
SALC14	300	TX, 12A, 87H, 251	1-15/32	3-1/8
SALC15	350	96, 299, 13A, 94A	1-19/32	3-3/8
SALC16	400	96, 13A, 655, 99H	1-25/32	3-3/4
SALC18	500	106A, 14A, 300, 317	1-27/32	3-7/8
SALC20	600	115H, 473, 786, 936, 112H	1-15/16	4-1/8
SALC23	750	140H, 301	2-3/16	4-5/8
SALC24	800	140H, 474	2-1/4	4-3/4
SALC28	1000	302, 161	2-1/2	5-1/4
SALC29	1250	161, 352, 579	3-1/16	6-1/2
SALC30	1500	478, 189	3-1/16	6-1/2
SALC31	1750	204, 729, 40AH	3-1/16	6-1/2
SALC32	2000	479, 735, 214	3-9/16	7-1/2

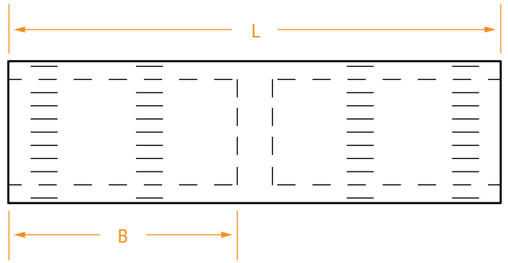
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned splices, add "-TN" to the part number (example: SALC3-TN for #6 tinned splice).

ALUMINUM SPLICES

ALC Series

- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.



PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
ALC5	4	TB, 37, 375, 162	1-7/16	3-1/8
ALC7	2	TQ, 45, 348, 6A, 1/2	1-5/8	3-13/32
ALC8	1	TQ, 45, 348, 6A, 1/2	1-5/8	3-13/32
ALC9	1/0	TU, BG, 8A, 5/8, 52, 243	1-7/16	3-11/16
ALC10	2/0	TWTY, 297, 9A, 5/8-1, 58	1-3/4	3-11/16
ALC11	3/0	TV, 10A, 781, 66, 247	1-13/16	3-15/16
ALC12	4/0	TX, 298, 11A, 840, 71H	1-7/8	4-3/16
ALC13	250	TX, 11A, 840, 76, 249	2-7/16	5-3/16
ALC14	300	TX, 12A, 87H, 251	2-11/16	5-11/16
ALC15	350	96, 299, 13A, 94A	3-1/4	6-5/8
ALC16	400	96, 13A, 655, 99H	3-7/16	7-7/32
ALC18	500	106, 106A, 14A, 300, 317	3-5/8	7-17/32
ALC20	600	115H, 473, 112H	3-3/4	7-25/32
ALC23	700-750	140H, 301	4	8-9/32
ALC24	800	140H, 474	4-1/16	8-7/16
ALC28	1000	302, 161	4-11/32	9-7/8
ALC29	1250	161, 352, 579	4-5/8	10
ALC30	1500	478, 189	6-11/32	13
ALC31	1750	204, 729, 40AH	6-5/16	13
ALC32	2000	735, 214	7-11/32	15

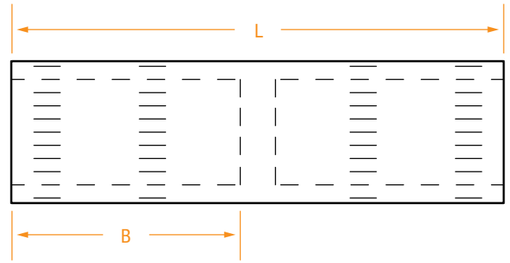
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned splices, add "-TN" to the part number (example: ALC5-TN for #4 tinned splice). For a different length connector, add the length in inches to the part number (example: ALC28-8in for an 8" connector).

ALUMINUM SPLICES – COMMON DIE

ALCCD Series

- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- Solid center stop to ensure proper cable insertion.



PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
ALCCD5	4	8A, TU, 5/8, 243, BG, 52	1-7/16	3
ALCCD7	2	8A, TU, 5/8, 243, BG, 52	1-7/16	3
ALCCD8	1	8A, TU, 5/8, 243, BG, 52	1-7/16	3
ALCCD9	1/0	8A, TU, 5/8, 243, BG, 52	1-7/16	3
ALCCD10	2/0	249, 840, TX, 11A, 76	1-7/8	4
ALCCD11	3/0	249, 840, TX, 11A, 76	1-7/8	4
ALCCD12	4/0	249, 840, TX, 11A, 76	1-7/8	4
ALCCD13	250	249, 840, TX, 11A, 76	1-7/8	4
ALCCD14	300	299, 1-1/8, 96, 13A	2-5/16	5
ALCCD15	350	299, 1-1/8, 96, 13A	2-5/16	5
ALCCD16	400	15A, 1-5/16, 115H, 300, 317	2-21/32	5-11/16
ALCCD18	500	15A, 1-5/16, 115H, 300, 317	2-21/32	5-11/16
ALCCD20	600	301, 1-1/2, 140	3-3/8	6-31/32
ALCCD23	700-750	301, 1-1/2, 140	3-3/8	6-31/32
ALCCD24	800	301, 1-1/2, 140	3-3/8	6-31/32
ALCCD28	1000	302, 1-3/4, 161	3-5/16	8

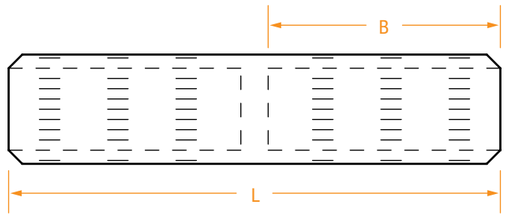
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned splices, add "-TN" to the part number (example: ALCCD5-TN for a #4 tinned splice).

TAPERED ALUMINUM SPLICES

OATC Series

- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Tapered ends for easy taping.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- Solid center stop to ensure proper cable insertion.
- Designed for 5kV and higher.



PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
OATC7	2	TQ, 45, 348, 6A	1-9/32	2-11/16
OATC9	1/0	TU, 8A, 52, 243	1-7/16	3
OATC10	2/0	TWTY, 245, 9A, 58	1-7/16	3-1/16
OATC11	3/0	TV, 10A, 66, 247	1-7/16	3
OATC12	4/0	TX, 298, 11A, 71	1-3/4	3-21/32
OATC13	250	TX, 11A, 76, 249	1-3/4	3-21/32
OATC14	300	TH, 12A, 87, 251	2-3/32	4-5/16
OATC15	350	96, 299, 13A	2-9/32	4-5/16
OATC16	400	96, 13A, 472	2-9/16	5-7/32
OATC18	500	106, 14A, 300, 317	2-11/16	5-1/2
OATC20	600	115, 473	2-31/32	6-1/32
OATC23	700-750	140, 301	3-3/8	6-27/32
OATC24	800	140, 474	3-5/8	7-5/16
OATC28	1000	302, 161	4-11/32	8-27/32
OATC29	1250	161, 302	4-5/8	9-3/4
OATC30	1500	478, 189	4-5/8	9-3/4
OATC31	1750	204, 729, 40AH	5-1/2	11-1/2
OATC32	2000	479, 225	5-11/16	11-7/8

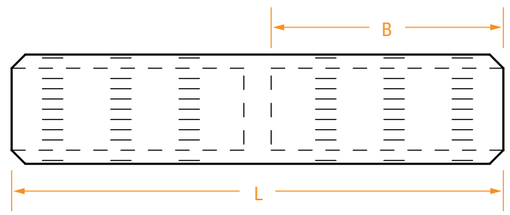
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned splices, add "-TN" to the part number (example: OATC7-TN for a #2 tinned splice). For a different length connector, add the length in inches to the part number (example: OATC28-8in for an 8" connector).

TAPERED ALUMINUM SPLICES – COMMON DIE

OATCCD Series

- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Tapered ends for easy taping.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- Solid center stop to ensure proper cable insertion.
- Designed for 5kV and higher.



PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
OATCCD5	4	TU, 8A, 52, 243, 296, 5/8	1-7/16	3
OATCCD7	2	TU, 8A, 52, 243, 296, 5/8	1-7/16	3
OATC9	1/0	TU, 8A, 52, 243, 296, 5/8	1-7/16	3
OATCCD10	2/0	11A, 76, 249, 840, 298	1-7/8	4
OATCCD11	3/0	11A, 76, 249, 840, 298	1-7/8	4
OATC12	4/0	11A, 76, 249, 840, 298	1-7/8	4
OATC13	250	11A, 76, 249, 840, 298	1-7/8	4
OATCCD14	300	96, 299, 13A, 1-1/8, 321, 705	2-5/16	5
OATC15	350	96, 299, 13A, 1-1/8, 321, 705	2-5/16	5
OATCCD16	400	115, 15A, 300, 1-5/16, 317	2-5/8	5-1/2
OATC18	500	115, 15A, 300, 1-5/16, 317	3-5/16	7
OATC20	600	1-5/16, 473, 1154	3-5/16	7
OATC23	700-750	1-1/2, 140, 301	3-3/8	6-27/32

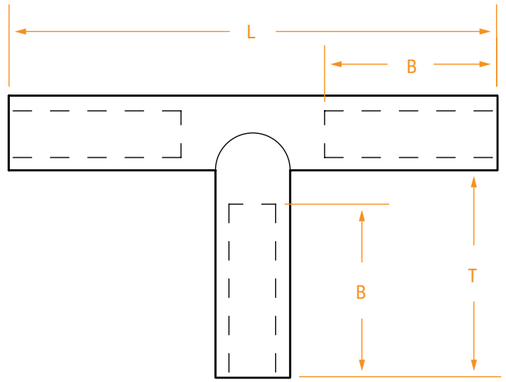
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned splices, add "-TN" to the part number (example: OATCCD-5-TN for a #4 tinned splice).

ALUMINUM TEES

ALT Series

- Made of high-conductivity aluminum.
- Available in different run and tap sizes.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.



PART NUMBER*	RUN	TAP	DIMENSIONS IN INCHES		
			L	B	T
ALT7	2	2	4-1/4	2	2-1/2
ALT9-7	1/0	2	5-1/2	2-1/4	2-1/2
ALT9	1/0	1/0	5-1/2	2-1/4	2-1/2
ALT10-9	2/0	1/0	6	2-1/4	2-1/2
ALT10	2/0	2/0	6	2-1/4	2-1/2
ALT11	3/0	3/0	6-5/8	2-5/8	3
ALT12-10	4/0	2/0	6-5/8	2-5/8	3
ALT12	4/0	4/0	6-5/8	2-5/8	3
ALT13	250	250	6-5/8	2-5/8	3
ALT14	300	300	6-5/8	2-5/8	3
ALT15-9	350	1/0	6-5/8	2-5/8	3
ALT15-12	350	4/0	6-5/8	2-5/8	3
ALT15	350	350	6-5/8	2-5/8	3

PART NUMBER*	RUN	TAP	DIMENSIONS IN INCHES		
			L	B	T
ALT16	400	400	7-3/4	3-1/8	3-1/2
ALT18-12	500	4/0	8	3-1/8	3-1/2
ALT18-15	500	350	8	3-1/8	3-1/2
ALT18	500	500	8	3-1/8	3-1/2
ALT23-12	750	4/0	8	3-1/8	3-1/2
ALT23-15	750	350	8	3-1/8	3-1/2
ALT23-18	750	500	9	3-1/2	4
ALT23	750	750	9	3-1/2	4
ALT28-15	1000	350	9-7/8	4	4-1/2
ALT28-18	1000	500	9-7/8	4	4-1/2
ALT28-23	1000	750	9-7/8	4	4-1/2
ALT28	1000	1000	9-7/8	4	4-1/2

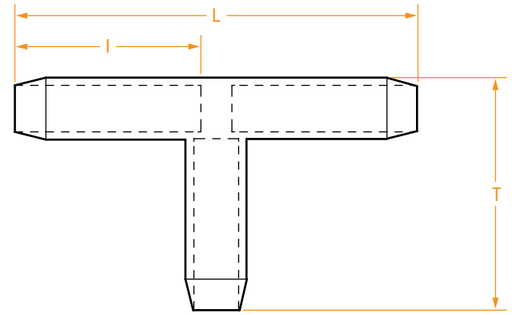
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned tees, add "-TN" to the part number (example: ALT7-TN for a #2 tinned Aluminum Tee).

ALUMINUM TAPERED TEES

ALTT Series

- Made of high-conductivity aluminum.
- Available in different run and tap sizes.
- Designed for 5kV and higher.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.



PART NUMBER	CABLE SIZE		DIMENSIONS IN INCHES			INSTALLING DIES
	RUN	TAP	L	I	T	
ALTT7-5	2	4	5-1/4	2-9/16	2-21/32	348, 6A, 45, TQ
ALTT7	2	2	5-1/4	2-9/16	2-23/32	348, 6A, 45, TQ
ALTT9-7	1/0	2	5-1/8	2-1/2	2-25/32	243, 52, 8A, TU
ALTT9	1/0	1/0	5-1/8	2-1/2	2-25/32	243, 52, 8A, TU
ALTT10-7	2/0	2	5-3/8	2-5/8	2-7/8	297, 58, 9A, TWTY
ALTT10-8	2/0	1	5-3/8	2-5/8	2-3/4	297, 58, 9A, TWTY
ALTT10-9	2/0	1/0	5-1/2	2-11/16	2-7/8	297, 58, 9A, TWTY
ALTT10	2/0	2/0	5-1/2	2-11/16	3-1/16	297, 58, 9A, TWTY
ALTT12-9	4/0	1/0	5-7/8	2-7/8	3-1/32	298, 71, 11A, TX
ALTT12-10	4/0	2/0	6	2-15/16	3-7/32	298, 71, 11A, TX
ALTT12	4/0	4/0	6-1/8	3	3-15/32	298, 71, 11A, TX
ALTT14-9	300	1/0	6-5/8	3-1/4	3-3/16	251, 87, 12A
ALTT14-10	300	2/0	6-5/8	3-1/4	3-3/8	251, 87, 12A
ALTT15-9	350	1/0	7-5/8	3-3/4	3-5/16	96, 299, 1-1/8
ALTT15-10	350	2/0	7-5/8	3-3/4	3-1/2	96, 299, 1-1/8
ALTT15-12	350	4/0	7-7/8	3-7/8	3-3/4	96, 299, 1-1/8
ALTT15-14	350	300	8	3-15/16	4	96, 299, 1-1/8
ALTT15	350	350	8-1/8	4	4-9/16	96, 299, 1-1/8

(continued)

ALUMINUM TAPERED TEES

ALTT Series (continued)

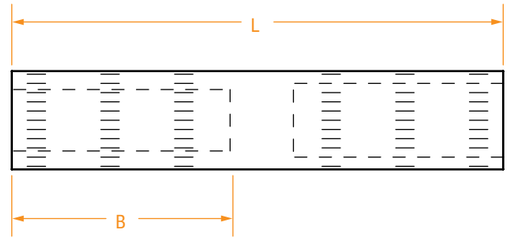
PART NUMBER	CABLE SIZE		DIMENSIONS IN INCHES			INSTALLING DIES
	RUN	TAP	L	I	T	
ALTT18-9	500	1/0	9-1/8	4-1/2	3-1/2	106A, 300, 1-5/16
ALTT18-10	500	2/0	9-1/8	4-1/2	3-11/16	106A, 300, 1-5/16
ALTT18-12	500	4/0	9-1/4	4-9/16	3-15/16	106A, 300, 1-5/16
ALTT18-14	500	300	9-3/8	4-5/8	4-3/16	106A, 300, 1-5/16
ALTT18-15	500	350	9-1/2	4-11/16	4-3/4	106A, 300, 1-5/16
ALTT18	500	500	9-3/4	4-13/16	5-7/16	106A, 300, 1-5/16
ALTT23-12	750	4/0	9-3/4	4-13/16	4-3/16	301, 140, 1-1/2, 527
ALTT23-14	750	300	9-7/8	4-7/8	4-7/16	301, 140, 1-1/2, 527
ALTT23-15	750	350	10	4-15/16	5	301, 140, 1-1/2, 527
ALTT23-18	750	500	10-1/8	5	5-5/8	301, 140, 1-1/2, 527
ALTT23	750	750	10-3/8	5-1/8	6	301, 140, 1-1/2, 527
ALTT28-12	1000	4/0	10-7/8	5-3/8	4-7/16	302, 161, 1-3/4, 150
ALTT28-14	1000	300	11	5-7/16	4-11/16	302, 161, 1-3/4, 150
ALTT28-15	1000	350	11-1/8	5-1/2	5-1/4	302, 161, 1-3/4, 150
ALTT28-18	1000	500	11-1/4	5-9/16	5-15/16	302, 161, 1-3/4, 150
ALTT28-23	1000	750	11-5/8	5-3/4	6-1/4	302, 161, 1-3/4, 150
ALTT28	1000	1000	10-7/8	5-7/8	6-13/16	302, 161, 1-3/4, 150

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

ALUMINUM REDUCERS

ALCR Series

- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- Solid center stop to ensure proper cable insertion.



PART NUMBER*	WIRE SIZE		INSTALLING DIES	DIMENSIONS IN INCHES	
	FROM	TO (RANGE)		B	L
ALCR7-	2	#8 - #3	TQ, 45, 348, 6A, 1/2	1-7/8	4-9/16
ALCR9-	1/0	#8 - #1	TU, BG, 8A, 5/8	1-7/8	4-9/16
ALCR10-	2/0	#6 - 1/0	TWTY, 60, 245, 9A, 5/8-1	1-7/8	4-9/16
ALCR11-	3/0	#6 - 2/0	TU, 781, 56	2	5
ALCR12-	4/0	#4 - 3/0	TX, 298, 11A, 840, 71H	2-1/8	5-1/4
ALCR13-	250	#4 - 4/0	TX, 11A, 840, 249	2-5/8	6-5/16
ALCR14-	300	#4 - 250	96, 299, 1-1/8	3-17/32	8-3/16
ALCR15-	350	#4 - 300	96, 299, 1-1/8	3-17/32	8-3/16
ALCR16-	400	#2 - 350	96, 472, 1-1/8	3-11/16	8-19/32
ALCR18-	500	#2 - 450	106, 300, 1-5/16	3-13/16	8-19/32
ALCR20-	600	#2 - 550	115H, 473, 1-5/16	3-15/16	8-7/8
ALCR23-	750	1/0 - 700	140, 301, 1-1/2	4-7/32	9-5/8
ALCR28-	1000	2/0 - 950	302, 161, 1-3/4	4-5/8	9-7/8
ALCR29-	1250	500 - 1000	352, 161	4-3/4	10

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned reducers, add "-TN" to the part number (example: ALCR7-5-TN for a #2 to #4 tinned reducer). For a different length connector, add the length in inches to the part number (example: ALCR28-23-7in for a 7" connector).

TAPERED ALUMINUM REDUCERS

OATCR Series

- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Designed for 5kV and higher.
- Filled with a high-voltage oxide-inhibiting compound.
- Marked with conductor size and die information.
- Solid center stop to ensure proper cable insertion.
- When ordering, specify both cable sizes in the part numbers listed below.
- Figure 1 or Figure 2 will be supplied depending on the amount of reduction.

Figure 1

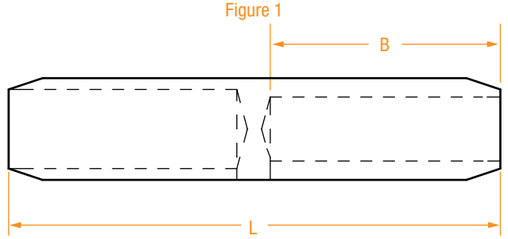
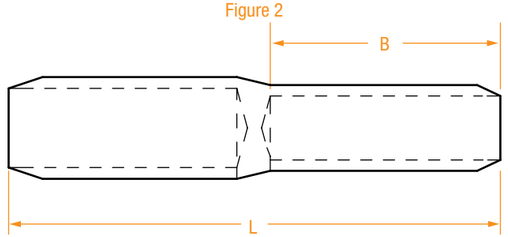


Figure 2



PART NUMBER*	WIRE SIZE		INSTALLING DIES	DIMENSIONS IN INCHES	
	FROM	TO (RANGE)		B	L
OATCR3-2	#6	#8	346, 161, TP, 29, 5/16	1-3/8	3
OATCR5-	#4	#8 - #6	375, 162, TB, 37	1-5/8	3-1/2
OATCR7-	#2	#8 - #4	348, 1/2, 45, TQ, 6A	1-5/8	3-1/2
OATCR8-	#1	#8 - #2	348, 1/2, 45, TQ, 6A	1-5/8	3-1/2
OATCR9-	1/0	#8 - #1	243, 52, TU, 5/8, 8A	1-5/8	3-1/2
OATCR10-	2/0	#6 - 1/0	297, 58, TWTY, 5/8, 9A	1-5/8	3-1/2
OATCR11-	3/0	#4 - 2/0	247, 66, 781, TV, 10A	1-7/8	4
OATCR12-	4/0	#4 - 3/0	298, 840, 71H, 11A, TX	2-3/8	5
OATCR13-	250	#4 - 4/0	249, 840, 76, TX, 11A	2-3/8	5
OATCR14-	300	#2 - 250	251, 12A, 87H, TX	2-1/2	5-1/4
OATCR15-	350	#2 - 300	299, 1-1/8, 96	2-15/16	6-1/4
OATCR18-	500	#2 - 450	300, 1-5/16, 106	3-5/8	7-5/8
OATCR23-	750	1/0 - 700	301, 1-1/2, 140	4	8-1/2
OATCR28-	1000	2/0 - 950	302, 1-3/4, 161	4-3/4	10
OATCR29-	1250	500 - 1000	352, 161	5-3/8	11

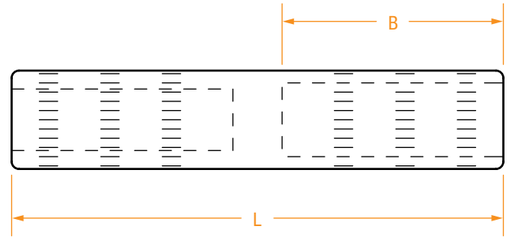
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned reducers, add "-TN" to the part number (example: OATCR6-8-TN for a #6 to #8 tinned reducer). For a different length connector, add the length in inches to the part number (example: OATC28-8in for an 8" connector).

ALUMINUM REDUCERS – COMMON DIE

ALCRCD Series

- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- Solid center stop to ensure proper cable insertion.



PART NUMBER*	WIRE SIZE		INSTALLING DIES	DIMENSIONS IN INCHES	
	FROM	TO (RANGE)		B	L
ALCRCD5-3	4	6	243, TU, 5/8, 8A, BG, 52	1-7/16	3
ALCRCD7-	2	#8 - #6	243, TU, 5/8, 8A, BG, 52	1-7/16	3
ALCRCD9-	1/0	#8 - #1	243, TU, 5/8, 8A, BG, 52	1-7/16	3
ALCRCD10-	2/0	#6 - 1/0	249, 840, TX, 11A, 76	1-7/8	4
ALCRCD11-	3/0	#6 - 2/0	249, 840, TX, 11A, 76	1-7/8	4
ALCRCD12-	4/0	#4 - 3/0	249, 840, TX, 11A, 76	1-7/8	4
ALCRCD13-	250	#4 - 4/0	249, 840, TX, 11A, 76	1-7/8	4
ALCRCD14-	300	#2 - 250	299, 1-1/8, 96, 13A	2-13/32	5
ALCRCD15-	350	#2 - 300	299, 1-1/8, 96, 13A	2-13/32	5
ALCRCD18-	500	#2 - 450	15A, 1-5/16, 106	2-21/32	5-11/16
ALCRCD23-	750	1/0 - 700	301, 1-1/2, 140	3-3/8	6-3/16
ALCRCD28-	1000	2/0 - 950	302, 1-3/4, 161	3-5/16	8
ALCRCD29-	1250	500 - 1000	352, 161	4-3/8	9

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tinned reducers, add "-TN" to the part number (example: ALCRCD5-3-TN for a #4 to #6 tinned reducer). For a different length connector, add the length in inches to the part number (example: ALCRCD28-18-8in for an 8" connector).

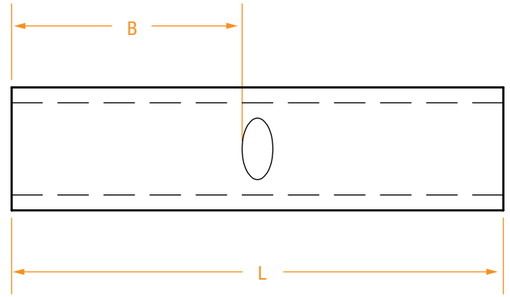
Copper Compression Connectors

Richards Manufacturing, Inc. | 517 Lyons Avenue, Irvington, NJ 07111 | 973.371.1771 | www.Richards-Mfg.com RMC0615

SHORT COPPER SPLICES

SCC Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Indentation in the center of the connector provides a cable stop to ensure proper installation.
- UL listed.



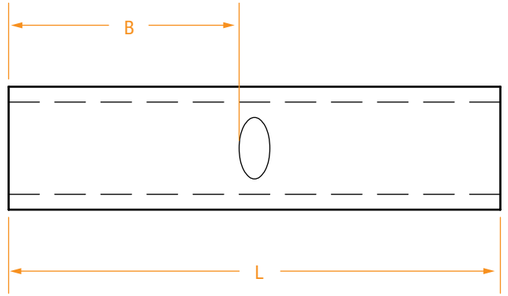
PART NUMBER	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
SCC3	6	J, 7, TE, 24, 5/16, 161	13/16	1-3/4
SCC4	5	J, 7, TE, 24	13/16	1-3/4
SCC5	4	5/16, 8, TP, 29	13/16	1-3/4
SCC7	2	3/8, 10, TL-TN, 33, M, 162	7/8	1-7/8
SCC8	1	3/8, 11, TB, 37, M, 162	7/8	1-7/8
SCC9	1/0	1/2, 12, TQ, 42	7/8	1-7/8
SCC10	2/0	9/16, 13, TS, 45	15/16	2
SCC11	3/0	5/8, 14, TU, 50	1	2-1/8
SCC12	4/0	5/8-1, 15, TW-TY, 54	1	2-1/8
SCC13	250	11/16, 16, TR, 60	1-1/16	2-1/4
SCC14	300	781, 17, TV, 66	1-1/16	2-1/4
SCC15	350	840, 18, TX, 71	1-1/8	2-3/8
SCC16	400	15/16, 19, TX, 76	1-3/16	2-1/2
SCC18	500	1, 20, TH, 87H	1-3/8	2-7/8
SCC20	600	1-1/8, 22, 96, 94H	1-3/8	2-7/8
SCC23	750	1-5/16, 24, 106	1-5/8	3-3/8
SCC28	1000	1-1/2, 27, 125	1-7/8	3-7/8
SCC29	1250	29	2	4-1/8
SCC30	1500	1-3/4, 31, 150	2	4-1/8
SCC32	2000	2.00, 34, 175	2-1/4	4-5/8
SCC33	2500	Y60 Press, L486 RT Die	2-7/16	5

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

COPPER SPLICES

CC Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Indentation in the center of the connector provides a cable stop to ensure proper installation.
- UL listed.



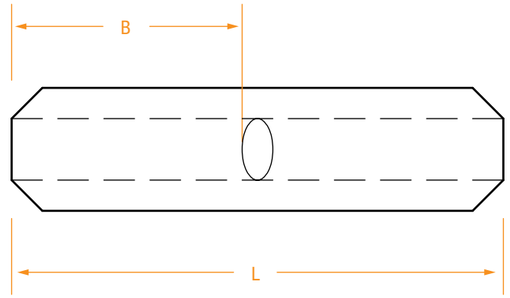
PART NUMBER	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
CC3	6	J, 7, TE, 24	1-1/8	2-3/8
CC4	5	J, 7, TE, 24	1-1/8	2-3/8
CC5	4	5/16, 8, TP, 29	1-1/8	2-3/8
CC7	2	3/8, 10, TL-TN, 33	1-1/4	2-5/8
CC8	1	3/8,11, TB, 37	1-3/8	2-7/8
CC9	1/0	1/2, 12, TQ, 42	1-3/8	2-7/8
CC10	2/0	9/16, 13, TS, 45	1-1/2	3-1/8
CC11	3/0	5/8, 14, TU, 50	1-1/2	3-1/8
CC12	4/0	5/8-1, 15, TW-TY, 54	1-5/8	3-3/8
CC13	250	11/16, 16, TR, 60	1-5/8	3-3/8
CC14	300	781, 17, TV, 66	2	4-1/8
CC15	350	840, 18, TX, 71	2	4-1/8
CC16	400	15/16, 19, TX, 76	2-1/8	4-3/8
CC18	500	1, 20, TH, 87H	2-1/4	4-5/8
CC20	600	1-1/8, 22, 96, 94H	2-11/16	5-1/2
CC23	750	1-5/16, 24, 106	2-7/8	5-7/8
CC28	1000	1-1/2, 27, 125	3	6-1/8
CC29	1250	29	3-3/16	6-1/2
CC30	1500	1-3/4, 31, 150	3-3/16	6-1/2
CC32	2000	2.00, 34, 175	3-7/16	7
CC33	2500	1/60 Press, L486RT	3-15/16	8

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

TAPERED COPPER SPLICES

TCC Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Tapered ends for high-voltage use.
- Indentation in the center of the connector provides a cable stop to ensure proper installation.
- 12° taper.
- UL listed.



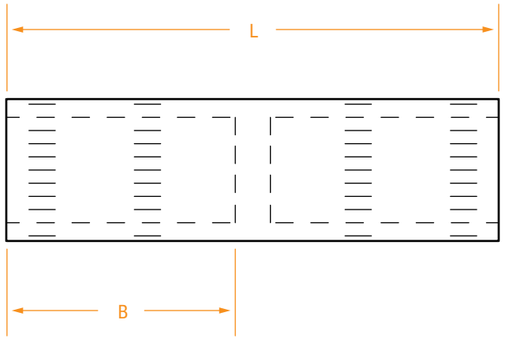
PART NUMBER	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
TCC3	6	J, 7, TE, 24	7/8	1-29/32
TCC5	4	5/16, 8, TP, 29	7/8	1-29/32
TCC7	2	3/8, 10, TL-TN, 33	31/32	2-1/16
TCC8	1	3/8, 11, TB, 37	31/32	2-1/16
TCC9	1/0	1/2, 12, TQ, 42	31/32	2-1/16
TCC10	2/0	9/16, 13, TS, 45	1-1/32	2-7/32
TCC11	3/0	5/8, 14, TU, 50	1-1/8	2-13/32
TCC12	4/0	5/8-1, 15, TW-TY, 54	1-1/8	2-3/8
TCC13	250	11/16, 16, TR, 60	1-7/32	2-9/16
TCC14	300	781, 17, TV, 66	1-1/4	2-5/8
TCC15	350	840, 18, TX, 71	1-5/16	2-25/32
TCC16	400	15/16, 19, TX, 76	1-7/16	2-31/32
TCC18	500	1, 20, TH, 87H	1-11/16	3-17/32
TCC20	600	1-1/8, 22, 96, 94H	2-1/16	4-7/32
TCC23	750	1-5/16, 24, 106	2-1/16	4-7/32
TCC28	1000	1-1/2, 27, 125	2-7/16	4-31/32
TCC29	1250	29	3-7/32	6-1/2
TCC30	1500	1-3/4, 31, 150	3-7/32	6-1/2
TCC32	2000	2.00, 34, 175	3-15/32	6-11/16
TCC33	2500	Y60 Press, L486RT	3-15/16	8

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

STRAIGHT OIL-STOP COPPER SPLICES

OCC Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Solid copper barriers are brazed in the center to insure an oil-tight seal.
- Long enough for double crimping to add mechanical strength.
- UL listed.



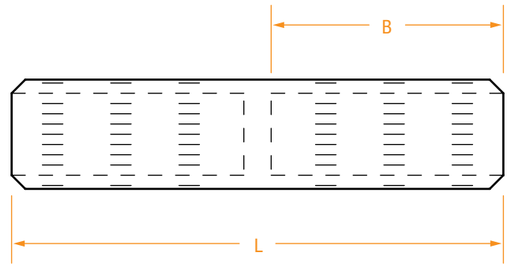
PART NUMBER	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
OCC3	6	7, TE, 24	1-1/8	2-3/8
OCC5	4	5/16, 8, TP, 29, 161	1-1/8	2-3/8
OCC7	2	3/8, 10, TL-TN, 162	1-1/4	2-5/8
OCC8	1	3/8, 11, TB, 37, 276	1-3/8	2-7/8
OCC9	1/0	1/2, 12, TQ, 42, 163	1-3/8	2-7/8
OCC10	2/0	9/16, 13, TS, 164	1-1/2	3-1/8
OCC11	3/0	5/8, 14, TU, 243	1-1/2	3-1/8
OCC12	4/0	5/8-1, 15, 165	1-5/8	3-3/8
OCC13	250	11/16, 16, TR, 166	1-5/8	3-3/8
OCC14	300	781, 17, TV, 167	2	4-1/8
OCC15	350	840, 18, TX, 168	2	4-1/8
OCC16	400	15/16, 19, TX, 169	2-1/8	4-3/8
OCC18	500	1, 20, 170	2-1/4	4-5/8
OCC20	600	1-1/8-2, 22, 96, 316, 94H	2-11/16	5-1/2
OCC23	750	1-5/16, 24, 106, 317	2-7/8	5-7/8
OCC24	800	1-5/16, 25, 112, 300	2-15/16	6
OCC28	1000	1-1/2, 27, 125	3	6-1/8
OCC29	1250	29	3-1/4	7

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

TAPERED OIL-STOP COPPER SPLICES

OTCC Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Tapered ends for high-voltage use.
- Solid copper barriers are brazed in the center to insure an oil-tight seal.
- 12° taper.
- UL listed.



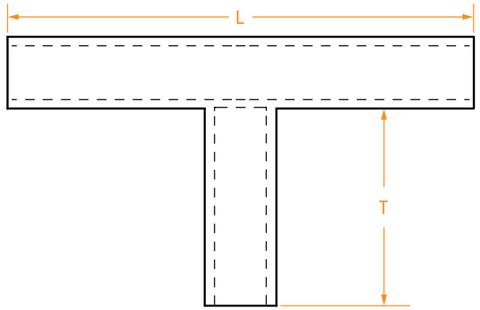
PART NUMBER	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
OTCC3	6	J, 7, TE, 24	7/8	1-29/32
OTCC5	4	5/16, 8, TP, 29	7/8	1-29/32
OTCC7	2	3/8, 10, TL-TN, 33	31/32	2-1/16
OTCC8	1	3/8, 11, TB, 37	31/32	2-1/16
OTCC9	1/0	1/2, 12, TQ, 42	31/32	2-1/16
OTCC10	2/0	9/16, 13, TS, 45	1-1/32	2-7/32
OTCC11	3/0	5/8, 14, TU, 50	1-1/8	2-13/32
OTCC12	4/0	5/8-1, 15, TW-TY, 54	1-1/8	2-3/8
OTCC13	250	11/16, 16, TR, 60	1-7/32	2-9/16
OTCC14	300	781, 17, TV, 66	1-1/4	2-5/8
OTCC15	350	840, 18, TX, 71	1-5/16	2-25/32
OTCC16	400	15/16, 19, TX, 76	1-7/16	2-31/32
OTCC18	500	1, 20, TH, 87H	1-11/16	3-17/32
OTCC20	600	1-1/8, 22, 96, 94H	2-1/16	4-7/32
OTCC23	750	1-5/16, 24, 106	2-1/16	4-7/32
OTCC28	1000	1-1/2, 27, 125	2-7/16	4-31/32
OTCC29	1250	29	3-7/32	6-1/2
OTCC30	1500	1-3/4, 31, 150	3-7/32	6-1/2
OTCC32	2000	2.00, 34, 175	3-15/32	6-11/16

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

COPPER COMPRESSION TEES

CCT Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Available in different run and tap sizes.
- Marked with conductor size and die information.
- UL listed.



PART NUMBER	RUN	TAP	DIMENSIONS IN INCHES	
			L	T
CCT9-3	1/0	6	3-3/4	1-1/2
CCT9-5	1/0	4	3-13/16	1-1/2
CCT9-7	1/0	2	3-7/8	1-1/2
CCT9-8	1/0	1	3-15/16	1-1/2
CCT9	1/0	1/0	4	1-1/2
CCT10-3	2/0	6	3-29/32	1-5/8
CCT10-5	2/0	4	3-31/32	1-5/8
CCT10-7	2/0	2	4-1/32	1-5/8
CCT10-8	2/0	1	4-3/32	1-5/8
CCT10-9	2/0	1/0	4-5/32	1-5/8
CCT10	2/0	2/0	4-5/32	1-5/8
CCT12-7	4/0	2	4-3/16	1-3/4
CCT12-8	4/0	1	4-3/16	1-3/4
CCT12-9	4/0	1/0	4-1/4	1-3/4
CCT12-10	4/0	2/0	4-5/16	1-3/4
CCT12	4/0	4/0	4-7/16	1-3/4
CCT13-7	250	2	4-1/4	1-3/4
CCT13-8	250	1	4-1/4	1-3/4
CCT13-9	250	1/0	4-5/16	1-3/4
CCT13-10	250	2/0	4-3/8	1-3/4
CCT13-12	250	4/0	4-1/2	1-3/4
CCT13	250	250	4-9/16	1-3/4
CCT15-9	350	1/0	5-37/64	2-3/16
CCT15-10	350	2/0	5-37/64	2-3/16
CCT15-12	350	4/0	5-23/32	2-3/16
CCT15	350	350	5-29/32	2-3/16

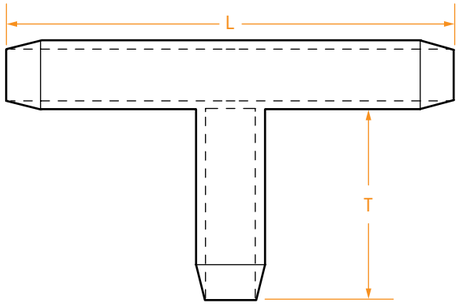
PART NUMBER	RUN	TAP	DIMENSIONS IN INCHES	
			L	T
CCT16-9	400	1/0	5-21/32	2-3/8
CCT16-10	400	2/0	5-21/32	2-3/8
CCT6-12	400	4/0	5-25/32	2-3/8
CCT16-13	400	250	5-27/32	2-3/8
CCT16-14	400	300	5-29/32	2-3/8
CCT16-15	400	350	5-31/32	2-3/8
CCT16	400	400	6-1/32	2-3/8
CCT18-9	500	1/0	6-23/64	2-19/32
CCT18-10	500	2/0	6-23/64	2-19/32
CCT18-12	500	4/0	6-15/32	2-19/32
CCT18-13	500	250	6-17/32	2-19/32
CCT18-15	500	350	6-21/32	2-19/32
CCT18-16	500	400	6-23/32	2-19/32
CCT18	500	500	6-23/32	2-19/32
CCT20-10	600	2/0	7-3/16	3-3/32
CCT20-12	600	4/0	7-7/16	3-3/32
CCT20-13	600	350	7-9/16	3-3/32
CCT20-18	600	500	7-11/16	3-3/32
CCT20	600	600	7-7/8	3-3/32
CCT23-15	750	350	7-7/8	3-3/8
CCT23-18	750	500	7-7/8	3-3/8
CCT23	750	750	7-7/8	3-3/8
CCT28-18	1,000	500	9-1/2	4
CCT28-20	1,000	600	9-1/2	4
CCT28-23	1,000	750	9-1/2	4
CCT28	1,000	1,000	9-1/2	4

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

TAPERED COPPER COMPRESSION TEES

TCCT Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Available in different run and tap sizes.
- Marked with conductor size and die information.
- UL listed.



PART NUMBER	RUN	TAP	DIMENSIONS IN INCHES	
			L	T
TCCT9-3	1/0	6	3-3/4	1-1/2
TCCT9-5	1/0	4	3-13/16	1-1/2
TCCT9-7	1/0	2	3-7/8	1-1/2
TCCT9-8	1/0	1	3-15/16	1-1/2
TCCT9	1/0	1/0	4	1-1/2
TCCT10-3	2/0	6	3-29/32	1-5/8
TCCT10-5	2/0	4	3-31/32	1-5/8
TCCT10-7	2/0	2	4-1/32	1-5/8
TCCT10-8	2/0	1	4-3/32	1-5/8
TCCT10-9	2/0	1/0	4-5/32	1-5/8
TCCT10	2/0	2/0	4-5/32	1-5/8
TCCT12-7	4/0	2	4-3/16	1-3/4
TCCT12-8	4/0	1	4-3/16	1-3/4
TCCT12-9	4/0	1/0	4-1/4	1-3/4
TCCT12-10	4/0	2/0	4-5/16	1-3/4
TCCT12	4/0	4/0	4-7/16	1-3/4
TCCT13-7	250	2	4-1/4	1-3/4
TCCT13-8	250	1	4-1/4	1-3/4
TCCT13-9	250	1/0	4-5/16	1-3/4
TCCT13-10	250	2/0	4-3/8	1-3/4
TCCT13-12	250	4/0	4-1/2	1-3/4
TCCT13	250	250	4-9/16	1-3/4
TCCT15-9	350	1/0	5-37/64	2-3/16
TCCT15-10	350	2/0	5-37/64	2-3/16
TCCT15-12	350	4/0	5-23/32	2-3/16
TCCT15	350	350	5-29/32	2-3/16

PART NUMBER	RUN	TAP	DIMENSIONS IN INCHES	
			L	T
TCCT16-9	400	1/0	5-21/32	2-3/8
TCCT16-10	400	2/0	5-21/32	2-3/8
TCCT16-12	400	4/0	5-25/32	2-3/8
TCCT16-13	400	250	5-27/32	2-3/8
TCCT16-14	400	300	5-29/32	2-3/8
TCCT16-15	400	350	5-31/32	2-3/8
TCCT16	400	400	6-1/32	2-3/8
TCCT18-9	500	1/0	6-23/64	2-19/32
TCCT18-10	500	2/0	6-23/64	2-19/32
TCCT18-12	500	4/0	6-15/32	2-19/32
TCCT18-13	500	250	6-17/32	2-19/32
TCCT18-15	500	350	6-21/32	2-19/32
TCCT18-16	500	400	6-23/32	2-19/32
TCCT18	500	500	6-23/32	2-19/32
TCCT20-10	600	2/0	7-3/16	3-3/32
TCCT20-12	600	4/0	7-7/16	3-3/32
TCCT20-13	600	350	7-9/16	3-3/32
TCCT20-18	600	500	7-11/16	3-3/32
TCCT20	600	600	7-7/8	3-3/32
TCCT23-15	750	350	7-7/8	3-3/8
TCCT23-18	750	500	7-7/8	3-3/8
TCCT23	750	750	7-7/8	3-3/8
TCCT28-18	1,000	500	9-1/2	4
TCCT28-20	1,000	600	9-1/2	4
TCCT28-23	1,000	750	9-1/2	4
TCCT28	1,000	1,000	9-1/2	4

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

COPPER COMPRESSION REDUCERS

CCR Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Below is a list of common conductor sizes and the range of reduction sizes available. When ordering, specify both cable sizes in the part numbers listed below. A Figure 1 or Figure 2 design will be supplied depending on the amount of reduction.
- All connectors are marked with conductor size and die information.
- UL listed.

Figure 1

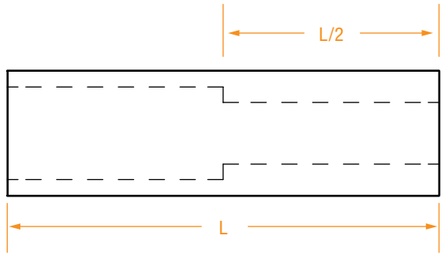
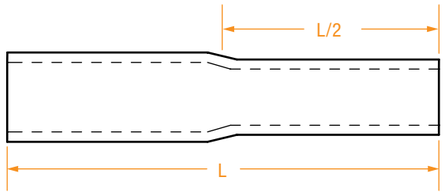


Figure 2



PART NUMBER*	FROM CABLE SIZE	TO CABLE SIZE (RANGE)	DIMENSIONS IN INCHES
			L
CCR3-2	#6	#8	2
CCR5-	#4	#6 - #8	2
CCR7-	#2	#4 - #8	2
CCR8-	#1	#2 - #8	2-1/4
CCR9-	1/0	#1 - #6	2-1/4
CCR10-	2/0	1/0 - #6	2-1/4
CCR11-	3/0	2/0 - #6	3-1/2
CCR12-	4/0	3/0 - #6	3-1/2
CCR13-	250	4/0 - #4	3-3/4
CCR14-	300	250 - #4	3-3/4
CCR15-	350	300 - #4	3-3/4
CCR18-	500	450 - 1/0	4-1/4
CCR23-	750	700 - 1/0	4-3/4
CCR28-	1000	950 - 2/0	6
CCR29-	1250	1000 - 4/0	7

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* Add second wire size to the part number when ordering (example: CCR28-23 is a Cu compression reducer for 1000 to 750 copper cables).

TAPERED COPPER COMPRESSION REDUCERS

TCCR Series

- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Below is a list of common conductor sizes and the range of reduction sizes available. When ordering, specify both cable sizes in the part numbers listed below. A Figure 1 or Figure 2 design will be supplied depending on the amount of reduction.
- All connectors are marked with conductor size and die information.
- UL listed.

Figure 1

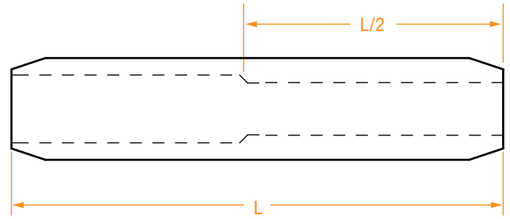
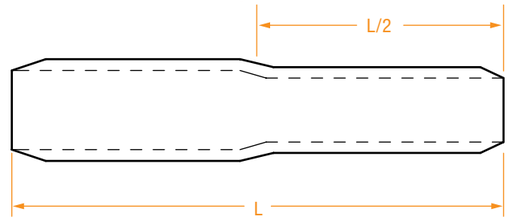


Figure 2



PART NUMBER*	FROM CABLE SIZE	TO CABLE SIZE (RANGE)	INSTALLING DIES	DIMENSIONS IN INCHES
				L
TCCR3-2	#6	#8	7, TE, 24	2
TCCR5-	#4	#6 - #8	5/16, 8, TP, 29, 161	2
TCCR7-	#2	#4 - #8	3/8, 10, TL-TN, 162	2
TCCR8-	#1	#2 - #8	3/8, 11, TB, 37, 276	2-1/4
TCCR9-	1/0	#1 - #6	1/2, 12, TQ, 42, 163	2-1/4
TCCR10-	2/0	1/0 - #6	9/16, 13, TS, 164	2-1/4
TCCR11-	3/0	2/0 - #4	5/8, 14, TU, 243	3-1/2
TCCR12-	4/0	3/0 - #6	5/8-1, 15, 165	3-1/2
TCCR13-	250	4/0 - #4	11/16, 16, TR, 166	3-3/4
TCCR14-	300	250 - #4	781, 17, TV, 167	3-3/4
TCCR15-	350	300 - #4	840, 18, TX, 168	3-3/4
TCCR18-	500	450 - 1/0	1, 20, 170	4-1/4
TCCR23-	750	700 - 1/0	1-5/16, 24, 106, 317	4-3/4
TCCR28-	1000	950 - 2/0	1-1/2, 27, 125	6
TCCR29-	1250	4/0 - 1000	29	8

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* Add second wire size to the part number when ordering (example: TCCR15-9 is a tapered Cu compression reducer for 350 to 1/0 copper cables).

OIL-STOP COPPER COMPRESSION REDUCERS

OCCR Series

- Made of high-conductivity copper.
- Tin-plated to resist corrosion.
- Below is a list of common conductor sizes and the range of reduction sizes available. When ordering, specify both cable sizes in the part numbers listed below. A Figure 1 or Figure 2 design will be supplied depending on the amount of reduction.
- All connectors are marked with conductor size and die information.
- UL listed.

Figure 1

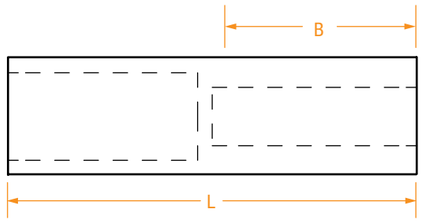
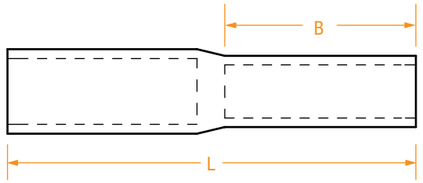


Figure 2



PART NUMBER*	FROM CABLE SIZE	TO CABLE SIZE (RANGE)	INSTALLING DIES	DIMENSIONS IN INCHES	
				L	B
OCCR3-2	#6	#8	7, TE, 24	2	7/8
OCCR5-	#4	#6 - #8	5/16, 8, TP, 29, 161	2	7/8
OCCR7-	#2	#4 - #8	3/8, 10, TL-TN, 162	2	7/8
OCCR8-	#1	#2 - #8	3/8, 11, TB, 37, 276	2-1/4	1
OCCR9-	1/0	#1 - #6	1/2, 12, TQ, 42, 163	2-1/4	1
OCCR10-	2/0	1/0 - #6	9/16, 13, TS, 164	2-1/4	1
OCCR11-	3/0	2/0 - #6	5/8, 14, TU, 243	3-1/2	1-5/8
OCCR12-	4/0	3/0 - #6	5/8-1, 15, 165	3-1/2	1-5/8
OCCR13-	250	4/0 - #4	11/16, 16, TR, 166	3-3/4	1-3/4
OCCR14-	300	250 - #4	781, 17, TV, 167	3-3/4	1-3/4
OCCR15-	350	300 - #4	840, 18, TX, 168	3-3/4	1-11/16
OCCR18-	500	450 - 1/0	1, 20, 170	4-1/4	1-15/16
OCCR23-	750	700 - 1/0	1-5/16, 24, 106, 317	4-3/4	2-1/8
OCCR28-	1000	950 - 2/0	1-1/2, 27, 125	6	2-3/4
OCCR29-	1250	4/0 - 1000	29	8	3-3/4

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* Add second wire size to the part number when ordering (example: CCR18-12 is an oil-stop Cu compression reducer for 500 to 4/0 copper cables).

OIL-STOP TAPERED COPPER COMPRESSION REDUCERS

OTCCR Series

- Made of high-conductivity copper.
- Tin-plated to resist corrosion.
- Below is a list of common conductor sizes and the range of reduction sizes available. When ordering, specify both cable sizes in the part numbers listed below. A Figure 1 or Figure 2 design will be supplied depending on the amount of reduction.
- All connectors are marked with conductor size and die information.
- UL listed.

Figure 1

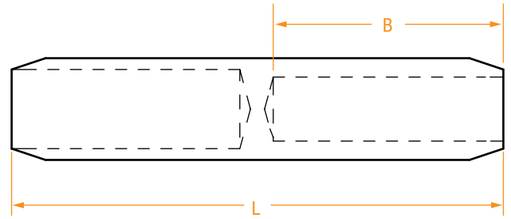
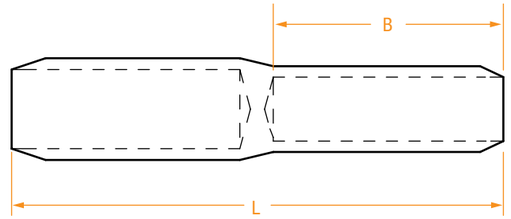


Figure 2



PART NUMBER*	FROM CABLE SIZE	TO CABLE SIZE (RANGE)	INSTALLING DIES	DIMENSIONS IN INCHES	
				L	B
OTCCR3-	#6	#8	7, TE, 24	2	7/8
OTCCR5-	#4	#6 - #8	5/16, 8, TP, 29, 161	2	7/8
OTCCR7-	#2	#4 - #8	3/8, 10, TL-TN, 162	2	7/8
OTCCR8-	#1	#2 - #8	3/8, 11, TB, 37, 276	2-1/4	1
OTCCR9-	1/0	#1 - #6	1/2, 12, TQ, 42, 163	2-1/4	1
OTCCR10-	2/0	1/0 - #6	9/16, 13, TS, 164	2-1/4	1
OTCCR11-	3/0	2/0 - #4	5/8, 14, TU, 243	3-1/2	1-5/8
OTCCR12-	4/0	3/0 - #6	5/8-1, 15, 165	3-1/2	1-5/8
OTCCR13-	250	4/0 - #4	11/16, 16, TR, 166	3-3/4	1-3/4
OTCCR14-	300	250 - #4	781, 17, TV, 167	3-3/4	1-3/4
OTCCR15-	350	300 - #4	840, 18, TX, 168	3-3/4	1-11/16
OTCCR18-	500	450 - 1/0	1, 20, 170	4-1/4	1-15/16
OTCCR23-	750	700 - 1/0	1-5/16, 24, 106, 317	4-3/4	2-1/8
OTCCR28-	1000	950 - 2/0	1-1/2, 27, 125	6	2-3/4
OTCCR29-	1250	1000 - 4/0	29	8	3-3/4

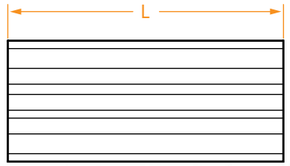
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* Add second wire size to the part number when ordering (example: OTCCR18-10 is an oil-stop tapered Cu compression reducer for 500 mcm to 2/0 copper cables).

CORRUGATED COPPER REDUCING ADAPTERS

CRA Series

- Used to reduce the socket size of a standard compression connector – enabling the use of a smaller wire size.
- Fabricated from pure soft copper.
- Hot-tinned to resist corrosion.
- Some sizes are not available with corrugation and have a smooth I.D and O.D.



PART NUMBER	CABLE SIZE		DIMENSIONS IN INCHES
	FROM	TO	L
CRA12-3	4/0	#6	1-3/4
CRA12-5	4/0	#4	1-3/4
CRA12-7	4/0	#2	1-3/4
CRA12-8	4/0	#1	1-3/4
CRA12-9	4/0	1/0	1-3/4
CRA12-10	4/0	2/0	1-3/4
CRA12-11	4/0	3/0	1-3/4
CRA15-3	350	#6	1-3/4
CRA15-5	350	#4	1-3/4
CRA15-7	350	#2	1-3/4
CRA15-9	350	1/0	1-3/4
CRA15-11	350	3/0	1-3/4
CRA15-12	350	4/0	1-3/4
CRA15-13	350	250	1-3/4
CRA15-14	350	300	1-3/4

PART NUMBER	CABLE SIZE		DIMENSIONS IN INCHES
	FROM	TO	L
CRA18-3	500	#6	2-1/2
CRA18-5	500	#4	2-1/2
CRA18-7	500	#2	2-1/2
CRA18-8	500	#1	2-1/2
CRA18-9	500	1/0	2-1/2
CRA18-10	500	2/0	2-1/2
CRA18-11	500	3/0	2-1/2
CRA18-13	500	250	2-1/2
CRA18-14	500	300	2-1/2
CRA18-15	500	350	2-1/2
CRA18-16	500	400	2-1/2
CRA23-12	750	4/0	2-1/2
CRA23-15	750	350	2-1/2
CRA23-16	750	400	2-1/2
CRA23-18	750	500	2-1/2
CRA23-20	750	600	2-1/2

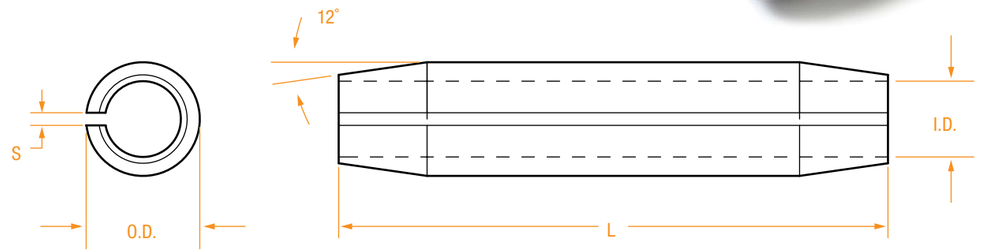
NOTE: Many other sizes available.
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

Split Tinned Connectors

SPLIT TINNED STRAIGHT CONNECTORS

RSS Series

- Made of pure copper.
- Tin-plated to resist corrosion.
- Fabricated in accordance with EEI specifications.



PART NUMBER*	WIRE SIZE	DIMENSIONS IN INCHES			
		L	S	I.D.	O.D.
RSS3	#6	1.5	0.030	0.189	0.251
RSS5	#4	2.0	0.030	0.237	0.315
RSS7	#2	2.0	0.030	0.297	0.395
RSS8	#1	2.0	0.070	0.337	0.449
RSS9	1/0	2.0	0.070	0.378	0.504
RSS10	2/0	2.0	0.070	0.423	0.565
RSS11	3/0	2.0	0.070	0.475	0.635
RSS12	4/0	2.5	0.070	0.533	0.713
RSS13	250	2.5	0.120	0.581	0.778
RSS14	300	2.5	0.120	0.635	0.849
RSS15	350	2.5	0.120	0.690	0.920
RSS16	400	3.0	0.120	0.740	0.986
RSS17	450	3.0	0.120	0.784	1.046
RSS18	500	3.0	0.120	0.826	1.102
RSS19	550	3.0	0.175	0.868	1.154

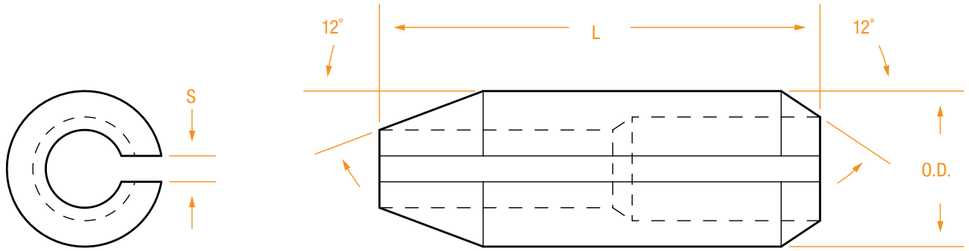
PART NUMBER*	WIRE SIZE	DIMENSIONS IN INCHES			
		L	S	I.D.	O.D.
RSS20	600	3.5	0.175	0.906	1.206
RSS21	650	3.5	0.175	0.948	1.260
RSS22	700	3.5	0.175	0.983	1.307
RSS23	750	3.5	0.175	1.018	1.356
RSS24	800	4.0	0.175	1.050	1.400
RSS25	850	4.0	0.220	1.083	1.441
RSS26	900	4.0	0.220	1.115	1.483
RSS27	950	4.0	0.220	1.145	1.525
RSS28	1,000	4.5	0.220	1.175	1.565
RSS29	1,250	4.5	0.220	1.320	1.754
RSS30	1,500	5.0	0.280	1.440	1.912
RSS31	1,750	5.5	0.280	1.560	2.074
RSS32	2,000	6.0	0.280	1.664	2.214
RSS33	2,500	6.5	0.280	1.885	2.455

* For “weak back” connectors, add “-WB” to the part number.

SPLIT TINNED CONCENTRIC REDUCING CONNECTORS

CR Series

- Made of pure copper.
- Tin-plated to resist corrosion.
- Fabricated in accordance with EEI specifications.
- The larger wire size dictates the price of the connector.
- When ordering, specify a second wire size after the part number shown below.
- 12° taper.



PART NUMBER*	LARGE WIRE SIZE	DIMENSIONS IN INCHES		
		L	S	O.D.
CR3	#6	1.5	0.030	0.251
CR4	#5	1.5	0.030	0.295
CR5	#4	2.0	0.030	0.315
CR6	#3	2.0	0.030	0.353
CR7	#2	2.0	0.030	0.395
CR8	#1	2.0	0.070	0.449
CR9	1/0	2.0	0.070	0.504
CR10	2/0	2.0	0.070	0.565
CR11	3/0	2.0	0.070	0.635
CR12	4/0	2.5	0.070	0.713
CR13	250	2.5	0.120	0.778
CR14	300	2.5	0.120	0.849
CR15	350	2.5	0.120	0.920
CR16	400	3.0	0.120	0.986
CR17	450	3.0	0.120	1.046

PART NUMBER*	LARGE WIRE SIZE	DIMENSIONS IN INCHES		
		L	S	O.D.
CR18	500	3.0	0.120	1.102
CR19	550	3.0	0.175	1.154
CR20	600	3.5	0.175	1.206
CR21	650	3.5	0.175	1.260
CR22	700	3.5	0.175	1.307
CR23	750	3.5	0.175	1.356
CR24	800	4.0	0.175	1.400
CR26	900	4.0	0.220	1.483
CR28	1,000	4.5	0.220	1.565
CR29	1,250	4.5	0.220	1.754
CR30	1,500	5.0	0.280	1.912
CR31	1,750	5.5	0.280	2.074
CR32	2,000	6.0	0.280	2.214
CR33	2,500	6.5	0.280	2.455

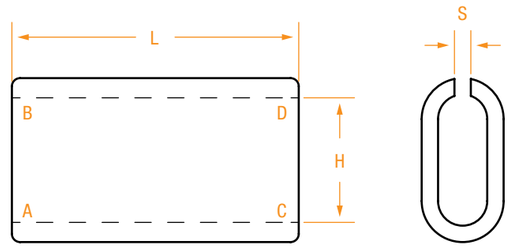
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* Add second wire size to the part number when ordering (example: CR23-18 is a concentric reducer for 750 to 500 mcm copper cables).

SPLIT TINNED BRANCH CONNECTORS – FULL DUPLEX

FD Series

- Available in any combination of wire sizes.
- Made of pure copper.
- Tin-plated to resist corrosion.
- Fabricated in accordance with EEI specifications.
- Price is governed by the largest wire size.
- When ordering, specify sizes as A & B to C & D.



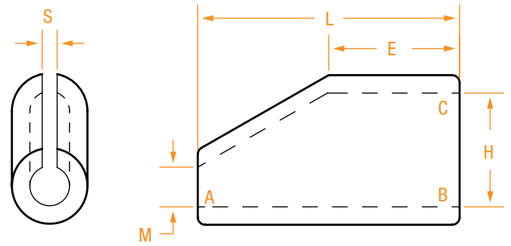
PART NUMBER	WIRE SIZE	DIMENSIONS IN INCHES		
		L	H	S
FD3	#6	1.5	0.378	0.050
FD5	#4	2.0	0.474	0.070
FD6	#3	2.0	0.530	0.070
FD7	#2	2.0	0.594	0.070
FD8	#1	2.0	0.647	0.070
FD9	1/0	2.0	0.756	0.070
FD10	2/0	2.0	0.846	0.070
FD11	3/0	2.0	0.950	0.070
FD12	4/0	2.5	1.066	0.120
FD13	250	2.5	1.162	0.120
FD14	300	2.5	1.270	0.120
FD15	350	2.5	1.380	0.120
FD16	400	3.0	1.480	0.175
FD17	450	3.0	1.560	0.175
FD18	500	3.0	1.652	0.175
FD19	550	3.0	1.736	0.175
FD20	600	3.5	1.812	0.175
FD21	650	3.5	1.896	0.175

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

SPLIT TINNED
BRANCH CONNECTORS – HALF DUPLEX

HD Series

- Available in any combination of wire sizes.
- Made of pure copper.
- Tin-plated to resist corrosion.
- Fabricated in accordance with EEI specifications.
- Price is governed by the largest wire size.
- When ordering, specify sizes A and B & C.



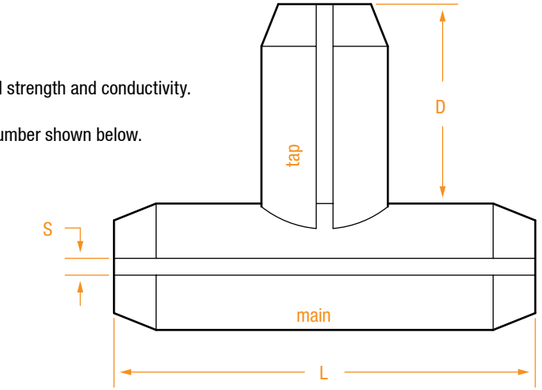
PART NUMBER	WIRE SIZE	DIMENSIONS IN INCHES				
		M	H	E	L	S
HD3	#6	0.189	0.378	0.75	1.5	0.050
HD5	#4	0.237	0.474	1.00	2.0	0.070
HD6	#3	0.265	0.530	1.00	2.0	0.070
HD7	#2	0.297	0.594	1.00	2.0	0.070
HD8	#1	0.337	0.674	1.00	2.0	0.070
HD9	1/0	0.378	0.756	1.00	2.0	0.070
HD10	2/0	0.423	0.846	1.00	2.0	0.070
HD11	3/0	0.475	0.950	1.00	2.0	0.070
HD12	4/0	0.533	1.066	1.25	2.5	0.120
HD13	250	0.581	1.162	1.25	2.5	0.120
HD14	300	0.635	1.270	1.25	2.5	0.120
HD15	350	0.690	1.380	1.25	2.5	0.120
HD16	400	0.740	1.480	1.50	3.0	0.175
HD17	450	0.784	1.568	1.50	3.0	0.175
HD18	500	0.826	1.652	1.50	3.0	0.175
HD19	550	0.868	1.736	1.50	3.0	0.175
HD20	600	0.906	1.812	1.75	3.5	0.175
HD21	650	0.948	1.896	1.75	3.5	0.175
HD23	750	1.018	2.036	1.75	3.5	0.220
HD24	800	1.052	2.104	2.00	4.0	0.220
HD25	850	1.083	2.166	2.00	4.0	0.220
HD28	1000	1.2	2.32	2.35	4.5	0.150
HD32	2000	1.7	3.4	3.2	6.0	0.260

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

SPLIT TINNED
TEE CONNECTORS

ST Series

- Available in any combination of wire sizes.
- Made of pure copper.
- Tin-plated to resist corrosion.
- Silver solder is used as a brazing material for mechanical strength and conductivity.
- The larger wire size dictates the price of the connector.
- When ordering, specify a “tap” wire size after the part number shown below.
- Fabricated in accordance with EEI specifications.



PART NUMBER	WIRE (MAIN)	DIMENSIONS IN INCHES		
		L	D	S
ST1	#10	1.5	3/4	0.030
ST2	#8	1.5	3/4	0.030
ST3	#6	1.5	3/4	0.030
ST5	#4	2.0	1	0.030
ST6	#3	2.0	1	0.030
ST7	#2	2.0	1	0.030
ST8	#1	2.0	1	0.070
ST9	1/0	2.0	1	0.070
ST10	2/0	2.0	1	0.070
ST11	3/0	2.0	1	0.070
ST12	4/0	2.5	1-1/4	0.070
ST13	250	2.5	1-1/4	0.120
ST14	300	2.5	1-1/4	0.120
ST15	350	2.5	1-1/4	0.120
ST16	400	3.0	1-1/2	0.120

PART NUMBER	WIRE (MAIN)	DIMENSIONS IN INCHES		
		L	D	S
ST17	450	3.0	1-1/2	0.120
ST18	500	3.0	1-1/2	0.120
ST19	550	3.0	1-1/2	0.175
ST20	600	3.5	1-3/4	0.175
ST21	650	3.5	1-3/4	0.175
ST22	700	3.5	1-3/4	0.175
ST23	750	3.5	1-3/4	0.175
ST24	800	4.0	2	0.175
ST26	900	4.0	2	0.220
ST28	1,000	4.5	2-1/4	0.220
ST29	1,250	4.5	2-1/4	0.220
ST30	1,500	5.0	2-1/2	0.280
ST31	1,750	5.5	2-3/4	0.280
ST32	2,000	6.0	3	0.280
ST33	2,500	6.5	3-1/4	0.280

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

LEAD SPLICING SLEEVES

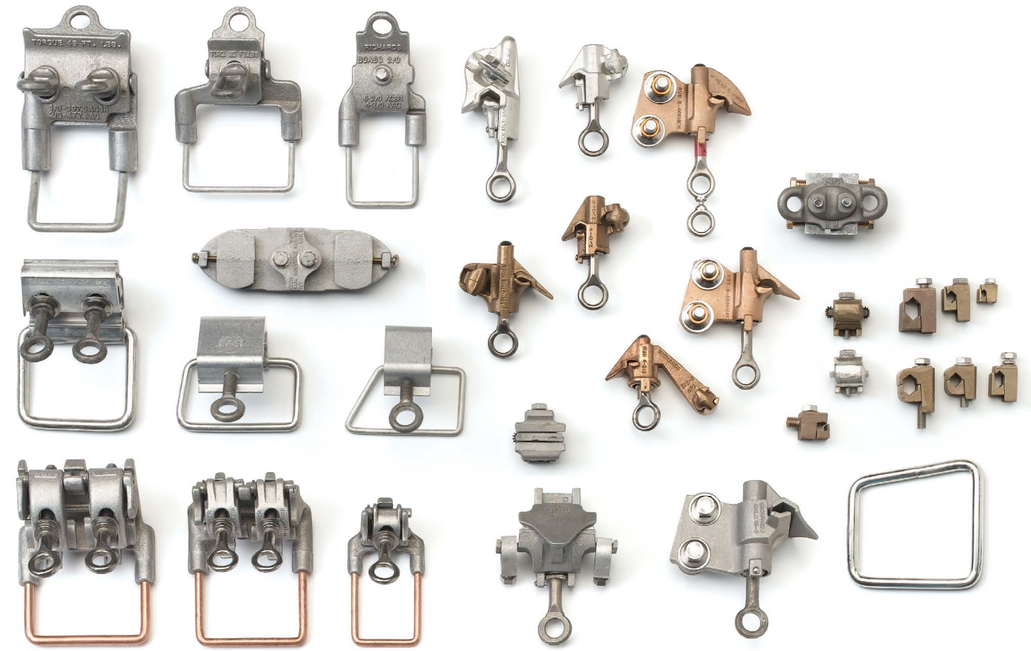
LS Series

- Used in conjunction with split tinned connectors when splicing PILC cable.
- Bridges lead neutral.
- When ordering, specify length (L), inside diameter (ID) and thickness (T)

INSIDE DIAMETER (ID)	THICKNESS (T)
2.00"	.125"
2.50"	.125"
2.50"	.150"
3.00"	.125"
3.50"	.150"
4.00"	.200"
4.50"	.200"
6.00"	.200"

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

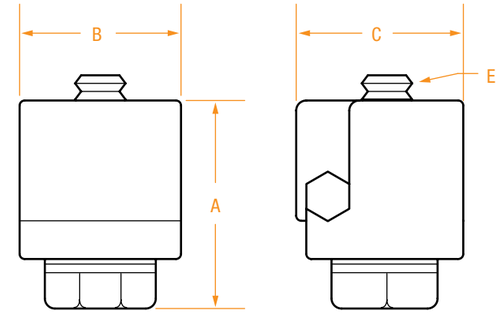
Distribution Equipment



BRONZE VISE CONNECTORS – JAWS OVERLAP

VC Series

- Made of high-strength silicon bronze.
- Accepts a range of conductors.
- RUS Approved.



PART NUMBER*	CLAMPS 2 CABLES TOGETHER: THIS SIZE CABLE COMBINED WITH ANY CABLE LESS THAN OR EQUAL IN DIAMETER	DIMENSIONS IN INCHES			BOLT HEAD SIZE
		A	B	C	
VC3	6 Solid or 8 Stranded	7/8	5/8	3/4	3/8 (Slot)
VC5	4 Solid or Stranded	1-1/8	3/4	13/16	9/16
VC7	2 Solid or 3 Stranded	1-3/8	13/16	15/16	9/16
VC10	1 Solid or 2 Stranded	1-5/8	13/16	1	9/16
VC10S	3/0 Solid or 2/0 Stranded	2	7/8	1-1/4	9/16
VC12	4/0 Solid or Stranded	2-1/8	1	1-3/8	9/16
VC15	350 Stranded	3	1-1/4	1-3/4	3/4
VC18	500 Stranded	3-1/2	1-3/8	2	3/4

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tin plated connectors, add “-P” to the part number. For a shear head bolt, add “-SH” to the part number. For a washer under the bolt, add “-W” to the part number.

ALUMINUM
HOT-LINE CLAMPS

AHLC Series

- Designed to be used for distribution service connections with hot sticks.
- Eyebolts are made from forged stainless steel.
- Eyelets and keepers are made from aluminum bronze.
- Bodies are made from high-strength aluminum.
- Wide jaws provide a greater surface contact, reducing twisting of the conductor during installation.
- Spring-loaded with a sturdy steel spring to compensate for temperature changes.

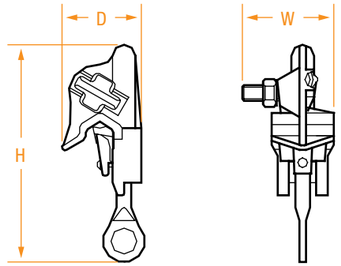


Figure 1

AHLC-18-9

AHLC-100-TN

AHLC-300-TN

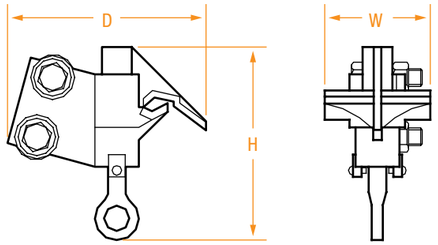


Figure 2

AHLC-2000

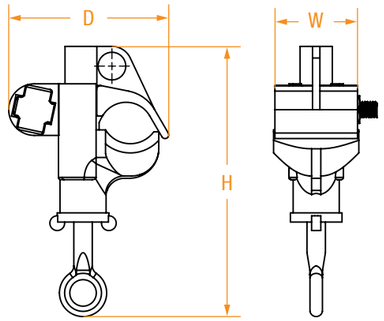


Figure 3

PART NUMBER*	FIGURE	RUN RANGE		TAP RANGE		DIMENSIONS IN INCHES		
		MIN.	MAX.	MIN.	MAX.	H	D	W
AHLC-100-TN	1	#8	2/0	#8	2/0	5	2-3/4	2
AHLC-300-TN**	1	#6	400	#6	3/0	6	2-1/4	1-3/4
AHLC-18-9	2	1/0	500	two-hole NEMA Spade		6-1/2	4-1/2	3
AHLC-700-TN	2	#4 Str	800	#4 Sol	300	7	3	3
AHLC-2000	3	666 ACSR	2000 ACSR	#6 Sol Cu	250	7	4-5/16	2-1/2

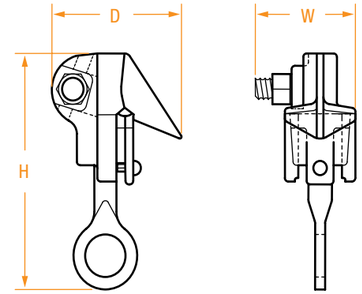
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tin plated connectors, add "-TN" to the part number. For pre-applied inhibitor in the clamp's jaws (individually bagged) add "-IB" to the part number.
** For 3/4" eyelet, add "-3/4" to the part number.

BRONZE
HOT-LINE CLAMPS

BHLC Series

- Designed to be used for distribution service connections with hot sticks.
- Bodies are made from silicon bronze.
- Eyebolts are made from forged stainless steel.
- Eyelets and keepers are made from aluminum bronze.
- Wide jaws provide a greater area of surface contact reducing twisting of the conductor during installation.
- Spring-loaded with a sturdy steel spring to compensate for temperature change.



BHLC-100

BHLC-101

BHLC-102

BHLC-201

BHLC-300

BHLC-400

BHLC-401

PART NUMBER*	RUN RANGE		TAP RANGE		DIMENSIONS IN INCHES		
	MIN.	MAX.	MIN.	MAX.	H	D	W
BHLC-100	#8	2/0	#8	2/0	5	2-3/4	2
BHLC-101	#6	400	#6	4/0	5-3/4	3-5/8	2-3/8
BHLC-102	#6	400	2/0 - 500 (U-Bolt Tap)		5-3/4	4-1/2	2-3/4
BHLC-201	#4	2/0	#6	2/0	3-7/8	4-1/2	1-7/8
BHLC-300	#6	400	#6	4/0	6-1/2	2-1/2	2-1/2
BHLC-400	#6	400	two-hole NEMA Spade		6-3/8	4-1/2	2-3/8
BHLC-401	#6	400	two-hole NEMA Spade		5-1/4	4-5/8	1-7/8

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

NOW AVAILABLE

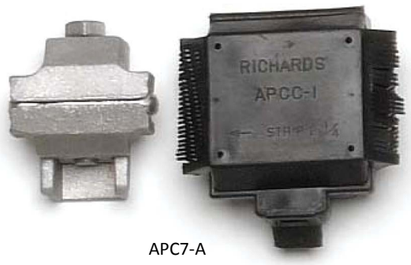
BHLC-100 is now available with extended tongue which facilitates landing the clamp onto the overhead conductor. To order, use part number BHLC-100-XT.

* For tin plated connectors, add "-TN" to the part number. For pre-applied inhibitor in the clamp's jaws (individually bagged) add "-IB" to the part number.

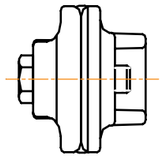
ALUMINUM PARALLEL CLAMPS WITH PLASTIC COVERS

APC Series

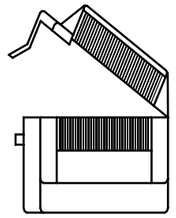
- Taps overhead secondary for connection to customer.
- Easily installed on energized or de-energized cables.
- Designed to withstand vibrations.
- Low torque provides high pressure on conductor.



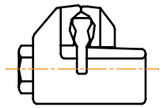
APC7-A



Aluminum Connector



Snap On Plastic Cover



PART NUMBER*	RUN SIZE		TAP SIZE		SNAP-ON COVER
	ACSR	AL	ACSR	AL OR CU	
APC5	#6-#4 ACSR	#2 Sol. #8 Sol. Al	#6-#4 ACSR	#2 Sol.-#8 Sol.	APCC-1
APC7	#6-#2 ACSR	#1 Str. #6 Sol. Al	#6-#2 ACSR	#1 Str.-#12 Sol.	APCC-1
APC10	#6-1/0 ACSR	#6 Sol. 2/0 Str. Al	#6-1/0 ACSR	#6 Sol.-2/0 Str.	APCC-1
APC11	#2-4/0 ACSR	#1 Str. 4/0 Str. Al	#2-4/0 ACSR	#1 Str.-4/0 Str.	APCC-2
APC12	#2-4/0 ACSR	#1 Str. 4/0 Str. Al	#6-2/0 ACSR	#6 Sol.-2/0 Str.	APCC-2
APC13	4/0-666,000 ACSR	266,800-800,000 Al	#2-4/0 ACSR	#1 Str.-4/0	APCC-2
APC14	3/0-336,400 ACSR	4/0-397,500 Al	#6-4/0 ACSR	#6 Sol.-266,800	APCC-2
APC15	3/0-336,400 ACSR	4/0-397,500 Al	3/0-336,400 ACSR	4/0-397,500	APCC-2

* For a rubber grommet on the spacer, add "-G" to the part number. For connector and cover shipped together, add "-A" to the part number.

ALUMINUM & BRONZE STIRRUP CONNECTORS

ASC & BSC Series

- ASC connector has a pure aluminum body and pure copper bail.
- BSC connector has a bronze body and pure copper bail.
- Bail is knurled prior to insertion into aluminum connector to prevent pull-out.

ASC-1000

ASC-2/0

BSC-2/0

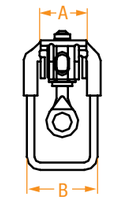
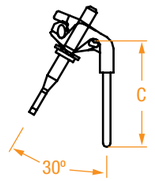


Figure 1



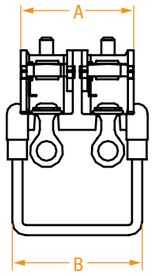
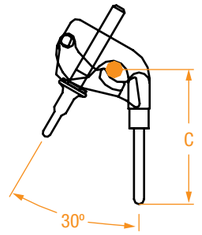


Figure 2



PART NUMBER*	CABLE RANGE	# OF EYEBOLTS	DIMENSIONS IN INCHES			BAIL DIA.
			A	B	C	
ASC-2/0**	AAC: #6 Sol. – 2/0 ACSR : #8 – 2/0	1	1-13/16	2-5/8	4-1/8	.289"
BSC-2/0***	#6 Sol. – 2/0 Cu #8 – 2/0 Cu	1	1-7/8	2-5/8	4-1/4	.289"
ASC-500**	AAC: 1/0 – 500 MCM ACSR: 1/0 – 397.5 MCM	2	4	4-3/8	4-13/16	.332"
ASC-1000**	AAC: 350 – 1000 MCM ACSR: 336.4 – 954 MCM	2	4-1/4	4-13/16	5-1/8	.385"

* For tin plated bails, add "-TN" to the part number.
** ASC-2/0, ASC-500 and ASC-1000 come with inhibitor applied to the clamp and individually bagged.
*** BSC-2/0 is not greased or bagged. Please add "-I" for inhibitor, "-B" for individually bagged or "-IB" for both.

ALUMINUM CLAMSHELL STIRRUPS

BCASC Series

- Connector has a pure A356T6 aluminum body and pure copper bail.
- Bail is knurled prior to insertion into aluminum connector to prevent pull-out.
- Bail is tin-plated for better electrical connection.

BCASC2/0

BCASC2/0-E-W-45

BCASC397-E-45

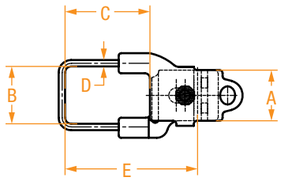


Figure 1

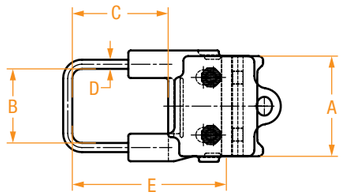


Figure 2

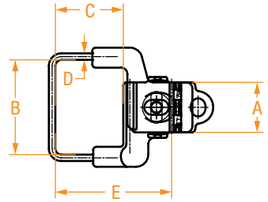


Figure 3

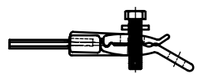


Figure 4

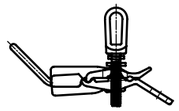


Figure 5

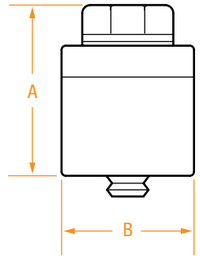
PART NUMBER	FIGURE	CABLE RANGE		DIMENSIONS IN INCHES				
		AAC	ACSR	A	B	C	D	E
BCASC2/0	1&4	4-2/0 (.232" - .414")	6-2/0 (.198" - .447")	2	2-1/4	3-3/8	#2 Cu	5-5/16
BCASC2/0-E-W	3&4	4-2/0 (.232" - .414")	6-2/0 (.198" - .447")	2	2-1/4	3-3/8	#2 Cu	5-5/16
BCASC2/0-E-45	1&5	4-2/0 (.232" - .414")	6-2/0 (.198" - .447")	2	2-1/4	3-1/8	#2 Cu	4-7/8
BCASC2/0-W	3&4	4-2/0 (.232" - .414")	6-2/0 (.198" - .447")	2	3-3/4	3-3/8	#2 Cu	5-5/16
BCASC2/0-45	1&5	4-2/0 (.232" - .414")	6-2/0 (.198" - .447")	2	3-3/4	3-1/8	#2 Cu	4-7/8
BCASC2/0-E-W-45	3&5	4-2/0 (.232" - .414")	6-2/0 (.198" - .447")	2	3-3/4	3-1/8	#2 Cu	4-7/8
BCASC397	2&4	2/0-477 (.414" - .792")	1/0-397.5 18/1 (.398" - .743")	4	3-1/8	4-1/4	2/0 Cu	6-1/8
BCASC397-45	1&5	2/0-477 (.414" - .792")	1/0-397.5 18/1 (.398" - .743")	4	3-1/8	4-1/4	2/0 Cu	6-1/8
BCASC397-E-45	2&5	2/0-477 (.414" - .792")	1/0-397.5 18/1 (.398" - .743")	4	3-1/8	4	2/0 Cu	5-3/4
BCASC397-L	2&4	2/0-477 (.414" - .792")	1/0-397.5 18/1 (.398" - .743")	4	3-1/8	4-1/8	1/0 Cu	6-1/8
BCASC397-E-45-L	2&5	2/0-477 (.414" - .792")	1/0-397.5 18/1 (.398" - .743")	4	3-1/8	3-7/8	1/0 Cu	5-3/4

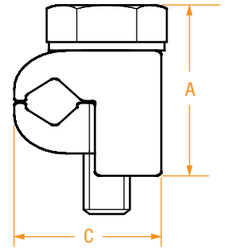
E=Eye Bolt W=Wide Bail 45=45° Bail

BRONZE VISE CONNECTORS – JAWS MEET

VC-H Series

- Made of high-strength silicon bronze.
- Accepts a range of conductors.





PART NUMBER*	CLAMPS 2 CABLES TOGETHER: THIS SIZE CABLE COMBINED WITH ANY CABLE LESS THAN OR EQUAL IN DIAMETER	DIMENSIONS IN INCHES			BOLT HEAD SIZE
		A	B	C	
VC3-H	#6	15/16	9/16	5/8	3/8 Slotted
VC5-H	#2	1-1/8	11/16	13/16	9/16
VC7-H	1/0	1-1/2	13/16	1-1/16	9/16
VC10S-H	2/0	1-5/8	1	1-1/8	9/16
VC12-H	4/0	1-3/4	1	1-7/16	9/16

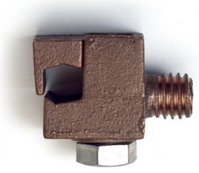
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tin plated, add "-P" to the part number. For a shear head bolt, add "-SH" to the part number.

TANK GROUND CONNECTORS

RTG Series

- Used for grounding connections on distribution transformer tanks.
- Recommended for copper ground conductors.
- Made of high-strength silicon bronze.
- Provided with standard 1/2 - 13 thread studs with a 9/16" bolt head.



RTG512

RTG512F

Figure 1

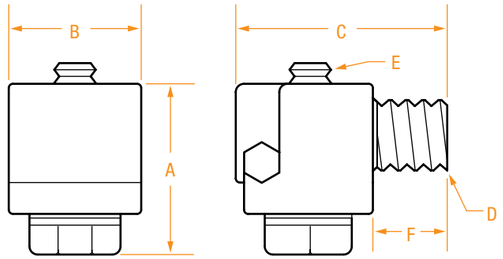


Figure 2

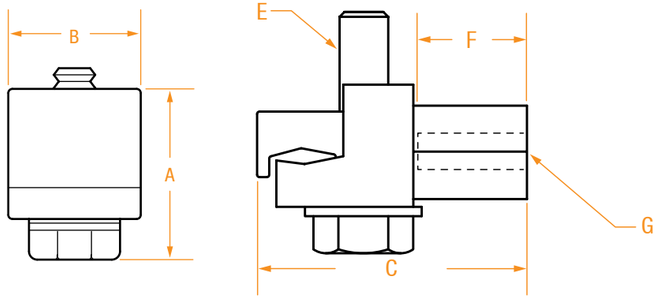
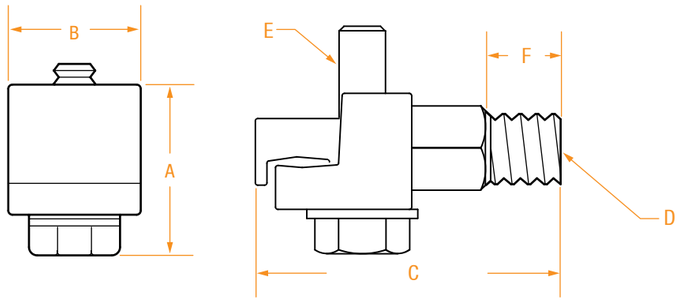


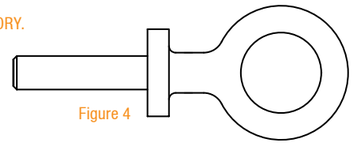
Figure 3



PART NUMBER*	CONDUCTOR RANGE	FIGURE #	DIMENSIONS IN INCHES						
			A	B	C	D	E	F	G
RTG512	6 Sol. to 1/0	1	1-1/4	3/4	1-3/8	1/2-13	5/16	1/2	–
RTG512-XL	6 Sol. to 1/0	1	1-1/4	3/4	1-3/8	1/2-13	5/16	1-1/16	–
RTG512-F	6 Sol. to 1/0	2	7/8	7/8	1-11/16	–	5/16	1/2	Threaded hole 5/16 -18
RTG512-F-3/8	6 Sol. to 1/0	2	7/8	7/8	1-11/16	–	5/16	3/4	Threaded hole 3/8 -16
RTG512-M	6 Sol. to 1/0	3	1	13/16	2-1/8	1/2-13	5/16	1/2	–

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

Figure 4

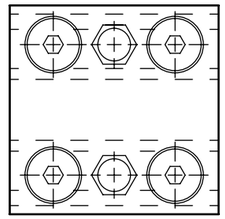


* For plated connectors, add "-TN" to the part number.
Note: All RTG designs are available with eyebolt shown in Figure 4. To order add "E" to the part number.

SERVICE DROP CONNECTORS

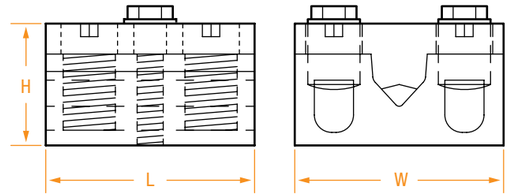
RSD Series

- Designed for multiple service connections.
- It provides a compact, readily accessible, reliable secondary connection.
- Allows for one main run and four service drop connections.
- Each service drop is individually connected, which allows easy installation and removal.
- The body is made of high-strength aluminum.
- Cable ports are prefilled with an oxide-inhibiting compound.



Cover:

- The cover is designed to protect the connector from contact with other phases.
- Holes for the service drops are precut to allow installation and removal of each service without having to remove the cover.
- Contains UV stabilizers.



RSD262

PART NUMBER	CONDUCTOR RANGES		DIMENSIONS IN INCHES		
	RUN	TAP	L	W	H
RSD262*	2 Str. – 350 MCM	#4 Sol. – 3/0 Str.	3-1/16	2-7/8	1-3/4
RSD262C	2 Str. – 350 MCM	#4 Sol. – 3/0 Str.	3-15/16	3-9/16	3

RSD262C IS THE COVER FOR THE RSD262 CONNECTOR

* Comes with the black cover RSD262C.

MID-SPAN CLAMPS

SDC & SEC Series

- Mid-span clamps are designed for use on bare cable and triplex secondaries for single or multiple service connections away from the pole.
- Fabricated from high-strength, high-conductivity aluminum.
- Features a four-tap connection block and an aluminum base with side loop that attach to service dead ends.
- Cable ports are pre-filled with an oxide-inhibiting compound.
- The service tap block enables the joining of one through four cables.
- Each cable is held by a separate bolt allowing for easy installation and removal.
- High-strength washer bolts are used to secure the neutrals.
- These bolts are anodized to prevent the aluminum from galling when installing and removing cables.
- Plastic cover contains UV stabilizers.

Figure 1

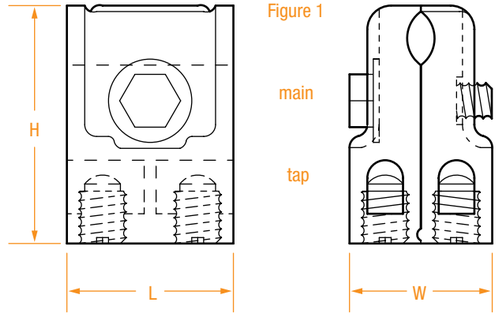
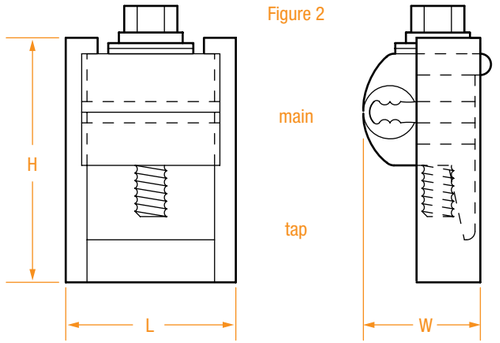


Figure 2



SDC495

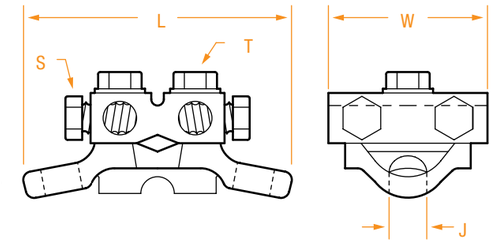
SEC3-12

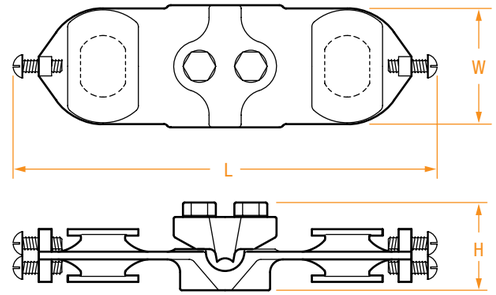
PART NUMBER	CONDUCTOR RANGES		FIG.	DIMENSIONS IN INCHES		
	MAIN	TAP		L	W	H
SDC495	#2 Str. – 3/0 Str.	#6 – 1/0 Str.	1	2	1-9/16	2-7/8
SEC3-12	#6 Sol. Cu – 2/0 Str. #6 Str. Al – 4/0 Str. Al	#6 Sol. Cu – 2/0 Str. #6 Str. Al – 4/0 Str. Al	2	1-3/4	1-1/2	2-1/2

NEUTRAL DEAD ENDS

RDE Series

- The RICHARDS RDE-101 and RSPTAP use an aluminum connector block with four taps to join neutrals from one through four services.
- Designed for neutral dead-end connections.
- High-strength aluminum washer head bolts are used to provide easy installations on bare wire or triplex secondary neutrals away from the pole.
- Side loops allow service dead ends to be attached at any angle.
- Each service is individually connected, which provides easy removal and installation.
- When installed on triplex secondaries, the fitted grooves protect the covered phase wires.
- Each cable port is pre-filled with an oxide-inhibiting compound.





RSPTAP

RDE-101

PART NUMBER	CONDUCTOR RANGE				DIMENSIONS IN INCHES					
	RUN		TAP							
	MIN	MAX	MIN	MAX	H	J	L	W	T	S
RDE-101	#4	4/0	#6	2/0	2-1/4	5/8	4-1/8	2-7/8	3/8	1/2
RSPTAP	–	–	–	–	1-1/2	–	8-1/8	2-3/8	–	–

STIRRUPS

RST Series

- Stirrups allow the attachment of hot-line clamps and grounding connectors to different system components.
- Stirrup holes are spaced such that they will be accepted on standard NEMA pads.
- The flange on the end of the stirrup prevents any clamps from sliding off during installation.

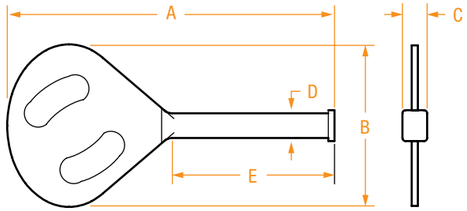


Figure 1

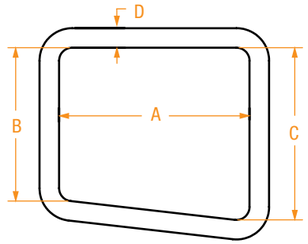


Figure 2

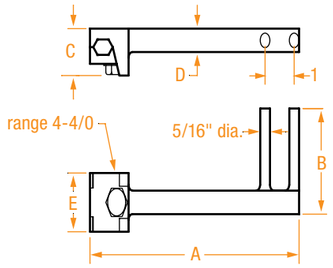
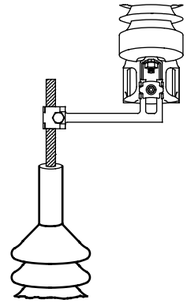


Figure 3



PART NUMBER	FIGURE	DIMENSIONS IN INCHES				
		A	B	C	D	E
RST-275*	1	7	3-1/2	1-1/4	3/4	3-1/4
R124214**	2	4-1/4	3-3/8	4-1/8	0.460 (4/0)	N/A
RST-356***	3	7	2-1/4	1-1/2	1/2	1-1/4

* RST-275 is made of high-strength cast aluminum.
** R124214 is made of high-conductivity copper rod.
***RST-356 is made of cast bronze.

OVERHEAD BAIL CLAMPS

RB Series

- Designed to be used for distribution service connections with standard hot sticks.
- Bail size ranges from #1 to 4/0 solid.
- The body is made of high-strength aluminum.
- Large area of compression between the aluminum body and the bail makes an extremely reliable connection.
- The wide jaws provide a greater area of surface contact, reducing twisting of the conductor during installation.
- Jaws are pre-coated with an oxide-inhibiting compound.

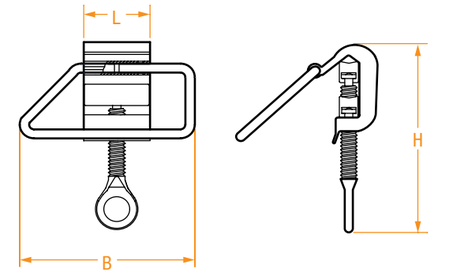


Figure 1

RB341

RB319/RB563

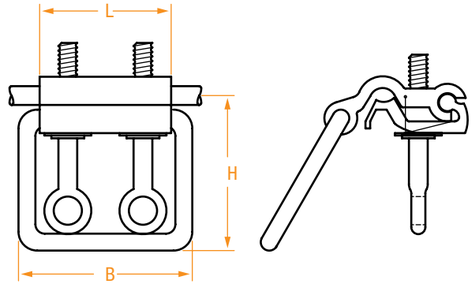


Figure 2

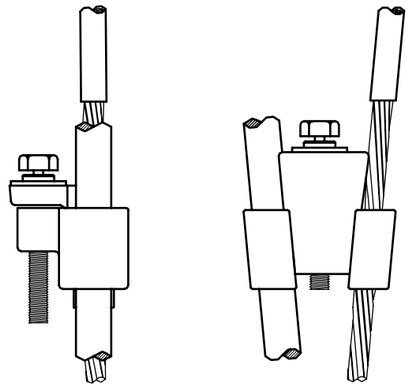
PART NUMBER*	FIGURE	CONDUCTOR RANGE		BAIL SIZE	DIMENSIONS IN INCHES		
		MIN.	MAX.		L	B	H
RB563	1	#4	4/0	#1	1-3/4	4-1/2	4-1/2
RB319	1	1/0	477	1/0	2-1/2	5	4-1/2
RB341	2	1/0 Al	477 Al	4/0 Cu	3-1/2	4-5/8	5

* Standard connectors have tinned copper bails. Add "-NTN" to the part number if non-tinned bails are acceptable.

BOLTED WEDGE CONNECTORS

RBWC Series

- Made of high-strength silicon bronze.
- Wedge design keeps constant compression.
- Shear-head bolt ensures proper torque.
- Forces in excess of 4,000 lbs. on each cable or ground rod.



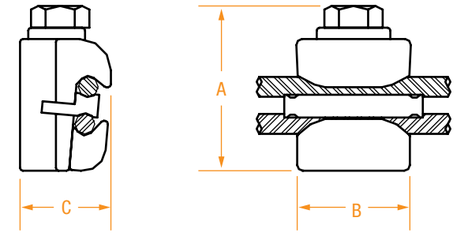
PART NUMBER	CONDUCTOR RANGE		BOLT	BOLT HEAD
	MIN	MAX		
RBWC-L-9-7	#2	1/0	5/16	9/16
RBWC-L-9-5	#4	1/0	5/16	9/16
RBWC-L-9	1/0	1/0	5/16	9/16
RBWC-M-5/8-5	#4 or #6	5/8" Ground Rod	5/16	9/16
RBWC-M-5/8-7	#2	5/8" Ground Rod	5/16	9/16
RBWC-M-5/8-9	1/0	5/8" Ground Rod	5/16	9/16

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

BRONZE PARALLEL VISE CONNECTORS

VC-80XX Series

- Made of high-strength silicon bronze.
- Accepts a range of conductors.
- Size overlapping allows for smaller inventory requirements.
- Interlocking design provides resistance to vibration loosening.
- Spacer provides additional contact area for lower resistance.



VC-8020-G

VC-8020-TN

VC-8058-SH

PART NUMBER*	CONDUCTOR RANGE		DIMENSIONS IN INCHES			BOLT	BOLT HEAD
	MIN	MAX	A	B	C		
VC-8002	#8	#2 Sol	1-3/16	1	¾	5/16	9/16
VC-8010	#8	#1	1-7/16	1	1	5/16	9/16
VC-8020	#8	3/0	1-9/16	1	1	5/16	9/16
VC-8058-SH	#6 - #2	5/8 Ground Rod	2-1/4	1-3/16	1-3/16	3/8	9/16

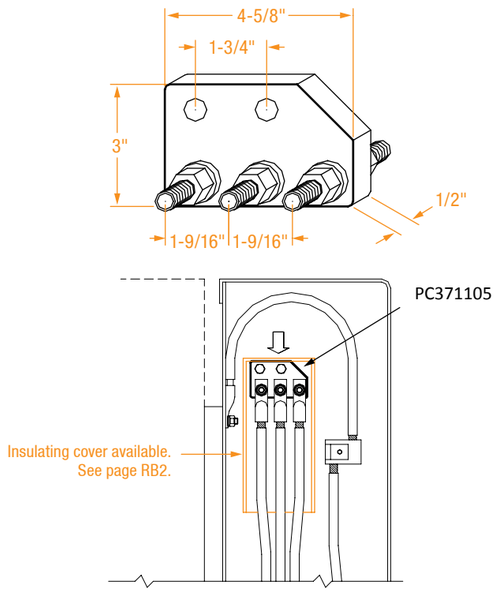
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For tin-plated connectors, add "-P" to the part number. For a shear-head bolt, add "-SH" to the part number. For a rubber grommet on the spacer, add "-G" to the part number.

PEDESTAL CONNECTORS

PC371105 Series

- Plate is tin-plated aluminum.
- Stainless steel studs.
- Zinc dichromate-plated washer nuts.



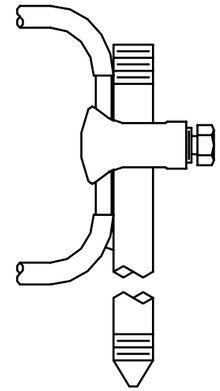
PART NUMBER	STUD SIZE
PC371105	1/2"

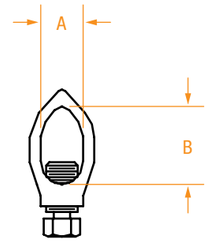
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

ACORN GROUND CLAMPS

ACRN Series

- Used for grounding copper conductor to copper ground.
- Made from bronze alloy.





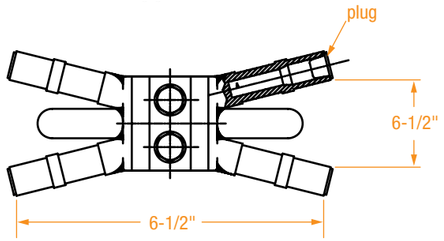
PART NUMBER	CONDUCTOR RANGE	ROD SIZE	DIMENSIONS IN INCHES	
			A	B
ACRN-5/8*	#8-1/0	5/8"	11/16	1-1/16
ACRN-5/8-CPS	#2-14	5/8"	5/8	1-1/16

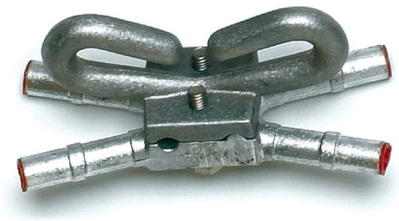
* For a shear-head bolt, add "-SH" to the part number.

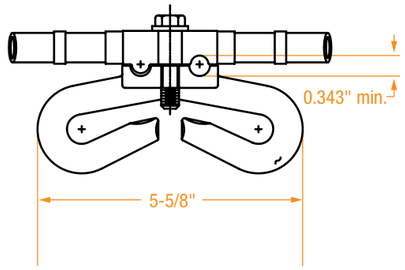
NEUTRAL-SPAN CLAMPS

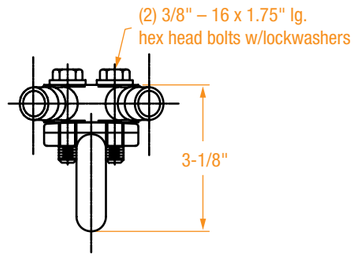
R07-1285 Series

- Used for mid-span taps.
- Made of high-strength aluminum.
- Filled with oxide-inhibiting grease.









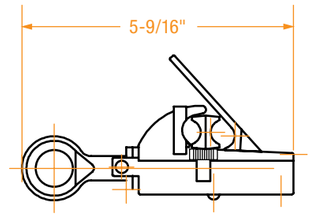
PART NUMBER	HEIGHT
R07-1285	3-1/8"

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

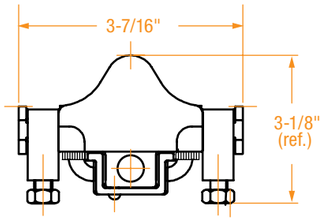
ALUMINUM HOT-LINE CLAMPS

AHLC-397 Series

- A full duty connector designed to replace the function of hot-line taps in heavily loaded applications.
- Acorn clamps allow secure taps to exit from either side.
- Clamp is made of high-strength aluminum.
- Center piece is made from soft, high-conductive pure aluminum.
- Filled with oxide-inhibiting grease.
- Easily installed using a hot stick.



AHLC-397



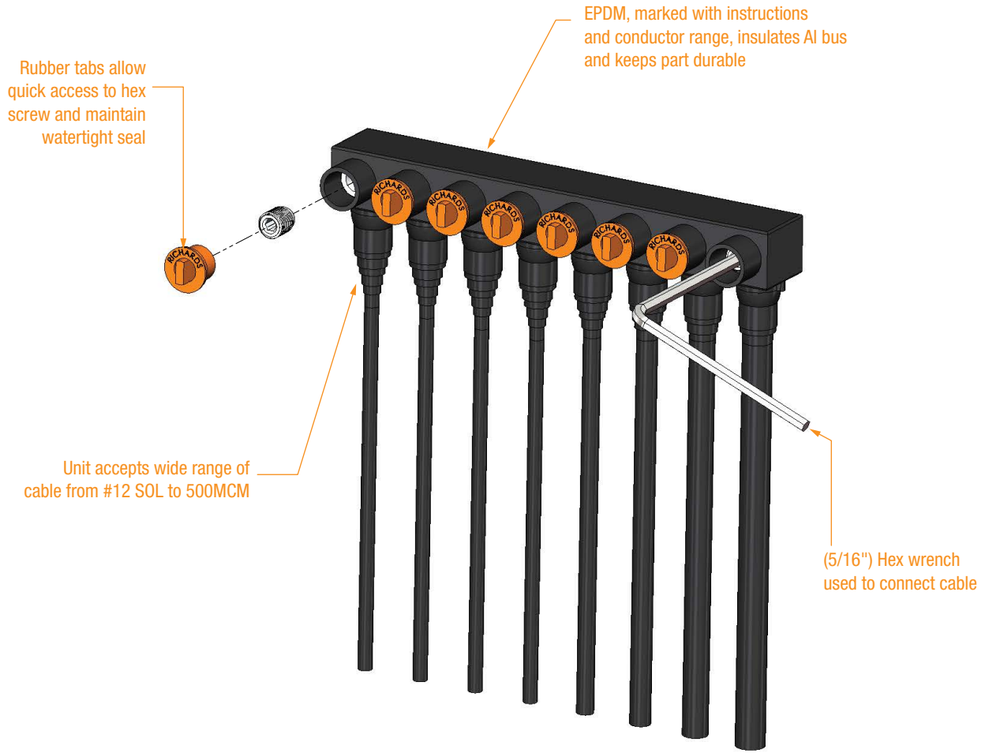
PART NUMBER	CONDUCTOR RANGE RUN SIZE		CONDUCTOR RANGE TAP SIZE	
	MIN	MAX	MIN	MAX
AHLC-397	3/0 ACSR / 4/0 Str. Al	336,400 ACSR / 397,500 Al	3/0 ACSR / 4/0 Str. Al	336,400 ACSR / 397,500 Al

UNDERGROUND RESIDENTIAL DISTRIBUTION MULTI-SPLICE

URD Series

- Consists of Aluminum bus, insulated with EPDM rubber.
- Allows quick and simple installation.
- Connects using 5/16" hexagonal wrench.
- Seals tight to keep out water and other foreign contaminants.

PART NUMBER	CABLE RANGE	OUTLETS	L	H
RM124036-6WAY	#12 Sol. through 500 MCM	6	10-1/2"	2-5/8"
RM124036-8WAY	#12 Sol. through 500 MCM	8	14"	2-5/8"



FIBER OPTIC CLAMP

RAFOB Series

- Unit clamps onto fiber optic cable.
- Rubber “O” ring keeps bolt captive to bracket.
- EPDM Rubber insert withstands the toughest environmental conditions, including extreme temperature fluxuations and ozone exposure.
- Multiple insert sizes are offered to house a variety of cable diameters.
- Offset bracket is available to attach and offset fiber optic bracket.
- Body constructed from high strength Aluminum.

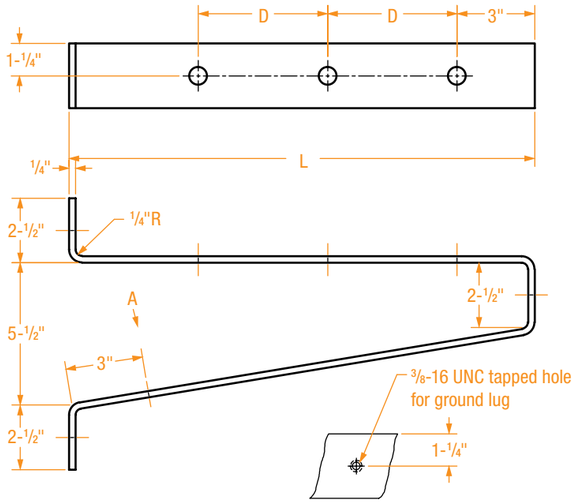
PART NUMBER FOR CLAMP AND INSERT	CABLE RANGE IN INCHES	PART NUMBER FOR CLAMP ONLY	PART NUMBER FOR INSERT ONLY
RAFOB-6045	0.426 – 0.475	RAFOB	FORS-6045
RAFOB-6050	0.476 – 0.525	RAFOB	FORS-6050
RAFOB-6055	0.526 – 0.575	RAFOB	FORS-6055
RAFOB-6065	0.626 – 0.675	RAFOB	FORS-6065
RAFOB-6080	0.776 – 0.825	RAFOB	FORS-6080
RAFOB-6085	0.826 – 0.875	RAFOB	FORS-6085
RAFOB-6100	0.976 – 1.025	RAFOB	FORS-6100

FOR OTHER SIZES, PLEASE CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY

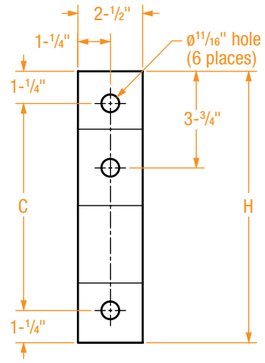
FIBER OPTIC OFFSET BRACKET

RFB Series

- Designed to offset Richards Fiber Optic Bracket from pole.
- Fabricated from steel for high-strength and durability.
- Available in two sizes for different offset lengths.



View A



PART NUMBER	DIMENSIONS IN INCHES			
	L	D	C	H
RFB1	12	3	8	10-1/2
RFB2	18	5	8	10-1/2

Underground Equipment

BARE CRAB JOINTS FOR JOINING BARE NEUTRAL CABLES

FJB Series

- Used for joining bare underground neutral cables.
- Made from pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Corrugated reducing adapters may be used when smaller cable is required.

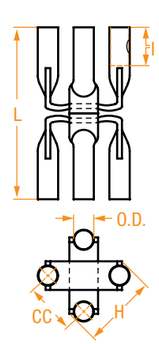


Figure 1

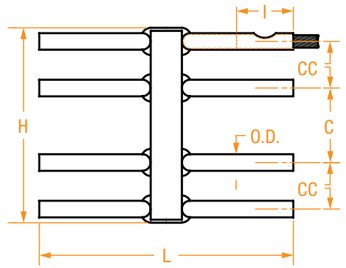


Figure 2

PART NUMBER	CABLE SIZE	FIGURE	# OF OUTLETS	# OF INDENTS	DIMENSIONS IN INCHES					
					I	H	L	C	CC	O.D.
FJB4/0-2W	4/0	2	4	1	2.0	3-3/16	6-7/16	–	2-3/16	0.687
FJB4/0-3W	4/0	2	6	1	2.0	7-1/16	6-7/16	3-7/8	2-3/16	0.687
FJB4/0-4W	4/0	2	8	1	2.0	9-1/4	6-7/16	3-7/8	2-3/16	0.687
CJB4/0-4W	4/0	1	8	2	2.0	3-1/2	9	–	2-3/16	0.687
CJB350-4W	350	1	8	2	2.5	3-3/4	9	–	2-1/2	0.875
FJB500-2W	500	2	4	2	2.5	3-15/16	7-1/2	–	2-3/8	1.062
FJB500-3W	500	2	6	2	2.5	8-3/16	7-1/2	4-1/4	2-3/8	1.062
FJB500-4W	500	2	8	2	2.5	10-9/16	7-1/2	4-1/4	2-3/8	1.062
CJB500-4W	500	1	8	2	2.5	3-3/4	8-3/4	–	2-3/4	1.062
CJB500-5W	500	1	10	2	2.5	4	9	–	2-3/4	1.062

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

INSULATED CRAB JOINTS

FJI Series

- Provides a means for connecting several cables at one common junction.
- Corrugated adapters allow a wide variety of cables to be used.
- Made from pure copper.
- Tin-plated to resist corrosion.
- Installation is done by “rolling back” the insulation over the cable sockets; inserting the cable into the sockets and crimping it. The insulation is then returned to its original position covering the socket.
- Eliminates bulky, time-consuming crotch taping.
- Insulated with an EPDM rubber for optimum electrical and mechanical properties.

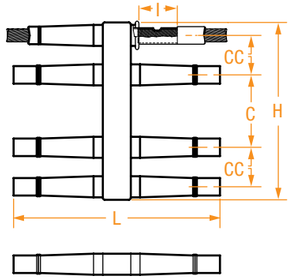


Figure 1

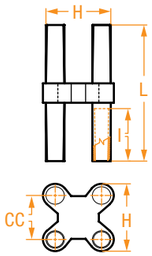


Figure 2

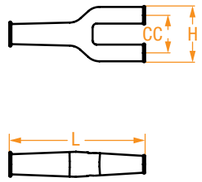


Figure 3

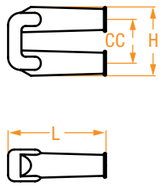


Figure 4

PART NUMBER	CABLE SIZE	FIGURE	# OF OUTLETS	# OF INDENTS	DIMENSIONS IN INCHES				
					I	H	L	C	CC
FJI4/0-2W	4/0	1	4	1	2.0	3-11/16	8-3/4	–	2-3/16
FJI4/0-3W	4/0	1	6	1	2.0	7-9/16	8-3/4	3-7/8	2-3/16
FJI4/0-4W	4/0	1	8	1	2.0	9-3/4	8-3/4	3-7/8	2-3/16
FJI4/0-5W	4/0	1	10	1	2.0	13-1/2	8-3/4	3-1/2	2-1/2
FJI4/0-6W	4/0	1	12	1	2.0	16	8-3/4	3-1/2	2-1/2
BIC4/0-4W	4/0	2	8	1	2.0	4	8-3/4	–	3
FJI500-(2)4/0	500 - 4/0	3	3	2	2.5	3	8-1/4	–	1-3/4
FJI500-U	500	4	2	2	3.5	4-1/4	6	–	2-3/4
FJI500-2W	500	1	4	2	2.5	4-3/8	12-5/8	–	2-3/8
FJI500-3W	500	1	6	2	2.5	8-5/8	12-5/8	4-1/4	2-3/8
FJI500-4W	500	1	8	2	2.5	11	12-5/8	4-1/4	2-3/8
FJI500-5W	500	1	10	2	2.5	14-1/2	12-5/8	3-3/4	2-1/2
FJI500-6W	500	1	12	2	2.5	17	12-5/8	3-3/4	2-1/2
FJI750-2W	750	1	4	2	2.5	4-3/4	13	–	2-1/2
FJI750-3W	750	1	6	2	2.5	9	13	4-1/2	2-1/2
FJI750-4W	750	1	8	2	2.5	12	13	4-1/2	2-1/2
FJI750-5W	750	1	10	2	2.5	16	13	4-1/2	2-1/2

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

INSULATED CRAB JOINTS – NO TAPE TYPE

FJINT Series

- Provides a means for connecting several cables at one common junction.
- No Tape Type Insulated Crab Joints provide an extension of free rubber at the end of the cable socket, which makes a water-tight fit over the cable insulation.
- Eliminates bulky, time-consuming crotch taping.
- Corrugated adapters allow a wide variety of cables to be used.
- Made from pure copper.
- Tin-plated to resist corrosion.
- Insulated with an EPDM rubber for optimum electrical and mechanical properties.

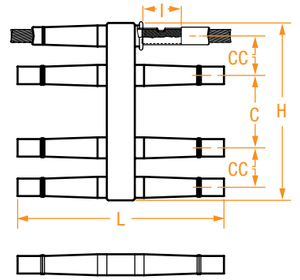


Figure 1

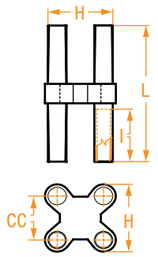


Figure 2

PART NUMBER	CABLE SIZE	FIGURE	# OF OUTLETS	# OF INDENTS	DIMENSIONS IN INCHES				
					I	H	L	C	CC
FJINT4/0-2W	4/0	1	4	1	2.0	3-11/16	9-1/2	–	2-3/16
FJINT4/0-3W	4/0	1	6	1	2.0	7-9/16	9-1/2	3-7/8	2-3/16
FJINT4/0-4W	4/0	1	8	1	2.0	9-3/4	9-1/2	3-7/8	2-3/16
BJINT4/0-4W	4/0	2	8	1	2.0	4	10-1/4	–	3
FJINT4/0-5W	4/0	1	10	1	2.0	13-1/2	9-1/2	3-1/2	2-1/2
FJINT4/0-6W	4/0	1	12	1	2.0	16	9-1/2	3-1/2	2-1/2
FJINT500-2W	500	1	4	2	2.5	4-1/4	11-1/2	–	2-3/8
FJINT500-3W	500	1	6	2	2.5	8-1/4	11-1/2	4-1/4	2-3/8
FJINT500-4W	500	1	8	2	2.5	10-3/4	11-1/2	4-1/4	2-3/8
FJINT500-5W	500	1	10	2	2.5	14-1/2	11-1/2	3-3/4	2-1/2
FJINT500-6W	500	1	12	2	2.5	17	11-1/2	3-3/4	2-1/2

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

FUSIBLE CRAB JOINTS – TOWER JOINTS

TWJ Series

- Provides limiter protection for six or eight cables at one common junction.
- For 125/216V applications only.
- Eliminates bulky, time-consuming crotch taping.
- Each cable is attached to its own separate fusible section.
- The fusible elements are made from pure copper seamless tubing and tin-plated.
- The elements are encased in a high-temperature shell, which provides separate arcing chambers for each fusible section.
- Corrugated adapters allow a wide variety of cables to be used.
- Insulated with an EPDM rubber for optimum electrical and mechanical properties.

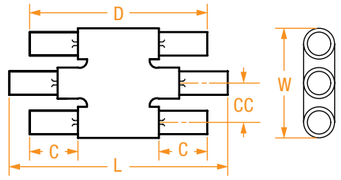


Figure 1

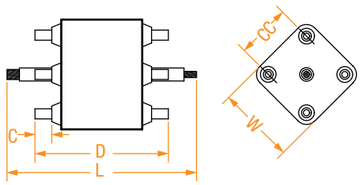


Figure 2

PART NUMBER	CABLE SIZE	FIGURE	# OF INDENTS	DIMENSIONS IN INCHES				
				C	L	D	CC	W
TWJ4/0-5*	4/0	2	1	2	18	10-1/2	3-1/4	5-11/16
TWJ500-3	500	1	2	2-7/8	15-7/16	10-7/8	2-5/16	6-7/16
TWJ500-5	500	2	2	3	20	13-1/2	3-9/16	6-3/16

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* TWJ4/0-5 has an unfused center cable port designed for 500 mcm copper cable. The outer cable ports are fused (limitered) and designed for 4/0 cable.

TOWER JOINT ACCESSORIES – CABLE END CAPS & SHELLS

TWJA Series

- Cable end caps are used to insulate the center cable of the fusible crab type “TWJ.”
- An EPDM rubber is used for optimum electrical and mechanical properties.

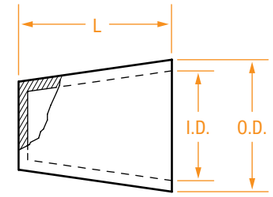


Figure 1

PART NUMBER	CABLE SIZE	FIGURE	DIMENSIONS IN INCHES		
			L	I.D.	O.D.
CC500	500	1	2-3/8	27/32	1-1/4

HIGH-TEMPERATURE FILLER SHELL

TWJA Series

- High-temperature filler shells are used with fusible crab joints type “TWJ.”
- These shells prevent cable insulation damage due to the heat generated from the connections.

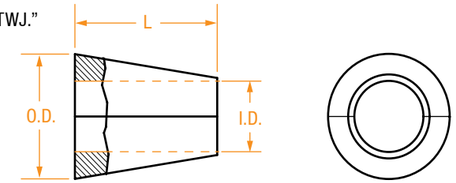


Figure 2

PART NUMBER	CABLE SIZE	FIGURE	DIMENSIONS IN INCHES		
			L	O.D.	I.D.
AS4/0	4/0	2	2-3/4	2-1/8	3/4
AS500/3	500	2	3	1-13/16	1-1/8
AS500-5	500	2	3	2-3/16	1-1/8

TOWER JOINT ACCESSORIES – INSULATING SLEEVES & CAPS

TWJS Series

- Dead-end insulating caps are used to cap unused outlets of fusible crab joints.
- This cap holds the filler shell in place and reduces the amount of hand taping.
- An EPDM rubber is used for optimum electrical and mechanical properties.

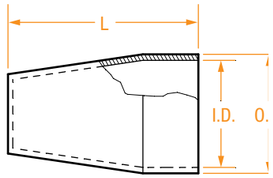


Figure 1

PART NUMBER	CABLE SIZE	FIGURE	DIMENSIONS IN INCHES		
			L	I.D.	O.D.
TWJC4/0	4/0	1	4-1/4	2-1/8	2-1/2
TWJC500-3	500	1	4-1/4	1-3/4	2-1/4
TWJC500-5	500	1	4-9/16	2-5/32	2-1/2

INSULATING SLEEVES FOR USE WITH "TWJ" SERIES FUSIBLE CRAB JOINTS

TWJS Series

- Insulating sleeves are used to hold the filler shell in place and reduces the amount of hand taping.
- An EPDM rubber is used for optimum electrical and mechanical properties.

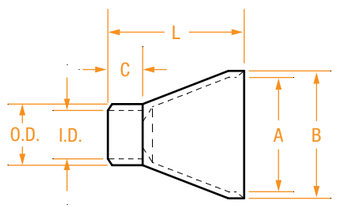


Figure 2

PART NUMBER	CABLE SIZE	FIGURE	DIMENSIONS IN INCHES					
			L	A	B	C	I.D.	O.D.
TWJS4/0	4/0	2	6-3/16	2-1/8	2-1/2	1-3/4	1-3/4	1-1/8
TWJS500-3	500	2	6-3/16	1-3/4	2-1/4	1-3/4	1-5/32	1-1/2
TWJS500-5	500	2	6-7/8	2-5/32	2-1/2	1-3/4	1-5/32	1-1/2

FUSIBLE CRAB JOINTS WITH PIGTAILS

CJLP Series

- Installation is as easy as making a cable-to-cable butt splice.
- Provides limiter protection for six, eight or 12 cables at one common junction.
- Eliminates bulky, time-consuming crotch taping.
- Each cable is attached to its own separate fusible section.
- The fusible elements are made from pure copper seamless tubing and hot-tinned.
- The elements are encased in a high-temperature shell, which provides separate arcing chambers for each fusible section.
- Insulated with an EPDM rubber for optimum electrical and mechanical properties.
- For 125/216V applications only.

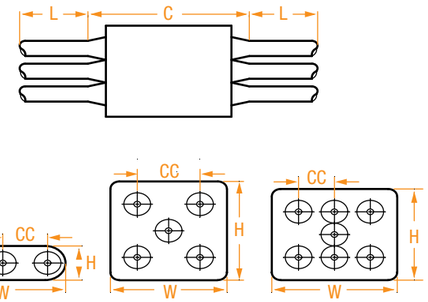


Figure 1 Figure 2 Figure 3

PART NUMBER	CABLE SIZE	FIGURE	DIMENSIONS IN INCHES				
			C	L	H	W	CC
CJLP500-3W	500	1	14-1/2	21	2-1/2	7	2-1/2
CJLP500-5W	500	2	17-5/8	21	6-1/2	6-1/2	3-1/2
CJLP500-7W	500	3	19	21	6	7	2-1/4

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* For 18" cable lengths, add "S" to the part number (example: CJLPS500-3W is a 3-way crab joint with 18" cable). 21 inches is the standard cable length.

CRAB JOINTS WITH PIGTAILS

SJ Series

- Installation is as easy as making a cable-to-cable butt splice.
- Eliminates bulky, time-consuming crotch taping.
- Insulated with an EPDM rubber for optimum electrical and mechanical properties.
- When fusible elements are used, the elements are made from pure copper seamless tubing and tin-plated.
- The fusible elements are encased in a high-temperature shell, which provides separate arcing chambers for each fusible section.

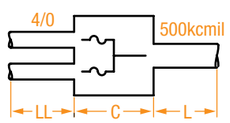


Figure 1

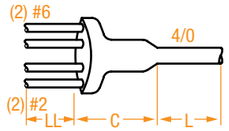


Figure 2

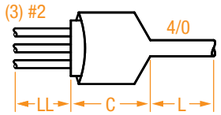


Figure 3

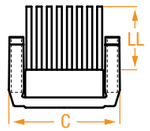


Figure 4

PART NUMBER	CABLE SIZE	CABLE SIZE # OF CABLES IN ()	FIGURE	DIMENSIONS IN INCHES		
				C	L**	LL*
SJ573-0536*	500	(2) 4/0	1	5	9 1/2	19 1/2
SJ573-0171	4/0	(2) #2 & (2) #6	2	4 1/2	6	6
SJ1420	4/0	(4) #4 Solid	2	5	9	8
SJ573-0346	4/0	(3) #2	3	4 3/4	24	16
SJ4/0-(6)1/0	4/0	(6) 1/0	2	–	–	–
SJ573-0569	(2) 500	(6) #2	4	8	–0–	11
SJ573-0551	(2) 500	(8) #2	4	11	–0–	11
SJ350AL-4/0-8W	(2) 350 AL	(8) 4/0 AL	4	12	–0–	–0–
SJ573-0668	–	(3) #2	See photo	2	–	6
SJ573-0676	–	(4) #2	See photo	2	–	6
SJ573-0692	–	(5) #2	See photo	2	–	6

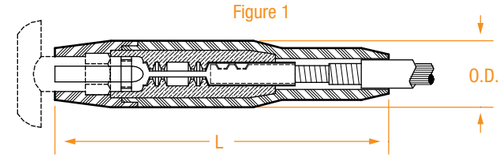
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

–0– indicates a cable port, rather than a cable length.
* The two (2) 4/0 cables are limitered. 125/216V applications only.
** Cable lengths given are standard, contact the factory for different lengths.

MOLE LIMITER ASSEMBLY

RMLA Series

- Mole limiter assemblies are complete units that include a fusible element, a high-temperature filler shell and an insulating sleeve.
- Can be ordered as a complete assembly or individual components.
- For 125/216V applications only.



Complete Assemblies

PART NUMBER	CABLE SIZE	# OF INDENTS	DIMENSIONS IN INCHES	
			L	OD
RMLA4/0	4/0	1	7-1/2	1-7/8
RMLA500	500	2	12	2.40

Mole Limiter Element Only

PART NUMBER	CABLE SIZE	# OF INDENTS	DIMENSIONS IN INCHES		
			L	STUD OD	SOCKET OD
RML4/0	4/0	1	6	.52	.68
RML500	500	2	8-3/8	.81	1.05

Mole Limiter Shell Only

PART NUMBER	CABLE SIZE	# OF INDENTS	DIMENSIONS IN INCHES	
			L	OD
RMLSHELL-4/0	4/0	1	5-7/16	1.47
RMLSHELL-500	500	2	7	1.8

Mole Limiter Sleeve Only

PART NUMBER	CABLE SIZE	# OF INDENTS	DIMENSIONS IN INCHES		
			L	OD	ID
RMLSLV-4/0	4/0	1	6-7/16	1-7/8	.92
RMLSLV-500	500	2	12	2.40	1.27

CABLE-TO-CABLE IN-LINE LIMITER

CCLA Series

- Cable-to-Cable Limiter Assemblies are complete units that include a cable-to-cable fusible element, a high-temperature filler shell and an insulating sleeve.
- This one-piece design is easy install and use.
- For 125/216V applications only.

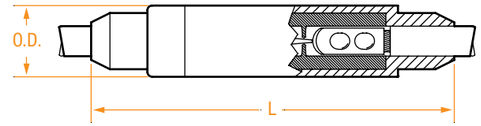
PART NUMBER	CABLE SIZE	# OF INDENTS*	DIMENSIONS IN INCHES	
RUBBER INS.			L	O.D.
CCLA-IN-500	500	2	13	2-1/8

* Number of indents refers to the number of crimps (min) to make on each side of the limiter using a nested indenter tool.

CABLE-TO-CABLE LIMITER ASSEMBLY

CCLA Series

- Cable-to-Cable Limiter Assemblies are complete units that include a cable-to-cable fusible element, a high-temperature filler shell and an insulating sleeve.
- When ordering individual components, refer to the following pages.
- The “CCLAP” limiters are designed for use on paper-insulated cable and feature an oil-tight seal.
- For 125/216V applications only.

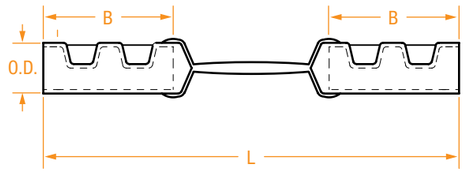


PART NUMBER		CABLE SIZE	# OF INDENTS	DIMENSIONS IN INCHES	
RUBBER INS.	PAPER INS.			L	O.D.
CCLA4/0	CCLAP4/0	4/0	1	8-1/4	1-1/2
CCLA250	CCLAP250	250	1	8-1/4	1-1/2
CCLA300	CCLAP300	300	2	12-1/8	2-1/2
CCLA350	CCLAP350	350	2	12-1/8	2-1/2
CCLA400	CCLAP400	400	2	12-1/8	2-1/2
CCLA500	CCLAP500	500	2	12-1/8	2-1/2
CCLA7500	CCLAP750	750	2	12-1/8	2-1/2

CABLE-TO-CABLE LIMITERS

CCL Series

- Made of pure copper.
- Tin-plated dipped for corrosion resistance.
- These connectors combine the functions of fuse and a connector.
- Designed to clear faults great enough to cause cable damage, while not clearing minor overloads.
- The “CCLP” fuses are designed for use on paper-insulated cable and feature an oil-tight seal.
- For 125/216V applications only.



PART NUMBER		CABLE SIZE	DIMENSIONS IN INCHES		
RUBBER INS.	PAPER INS.		O.D.	B	L
CCL4/0	CCLP4/0	4/0	11/16	1-3/4	6-3/8
CCL250	CCLP250	250	3/4	1-7/8	6-3/8
CCL300	CCLP300	300	13/16	2	6-3/4
CCL350	CCLP350	350	7/8	2	6-3/4
CCL400	CCLP350	400	31/32	2-1/8	7
CCL500	CCLP500	500	1-1/16	2-7/8	8-3/4
CCL750	CCLP750	750	1-5/16	2-7/8	9

TWO-PIECE CABLE-TO-CABLE LIMITER INSULATING SLEEVES

LS Series

- Cable-to-cable insulating sleeves are used to hold the high-temperature shell and to minimize the need for hand taping.
- Molded from EPDM rubber, these sleeves have excellent mechanical and electrical properties.

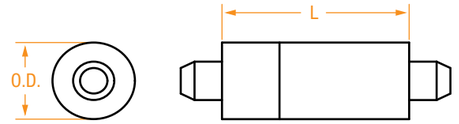


Figure 1

PART NUMBER	CABLE SIZE (RANGE)	FIGURE	DIMENSIONS IN INCHES	
			O.D.	L
LS-250	4/0 TO 250	1	1-1/2	8-1/4
LS-2PC-500	300 TO 500	1	2-1/2	12-1/8
LS-2PC-750	750	1	2-1/2	12-1/8

HIGH-TEMPERATURE FILLER SHELL FOR CABLE-TO-CABLE LIMITERS

ALS Series

- High-temperature shells provide an arcing chamber for the limiter element under overload conditions.

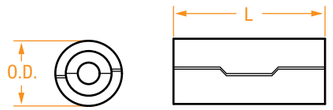


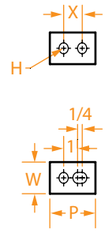
Figure 2

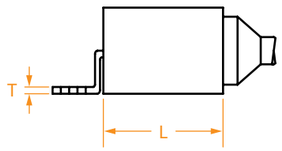
PART NUMBER	CABLE SIZE (RANGE)	FIGURE	DIMENSIONS IN INCHES	
			O.D.	L
ALS250	4/0 TO 250	2	1-3/8	6-1/2
ALS500	300 TO 500	2	1-7/8	8
ALS750	750	2	2-1/16	9

LIMITER LUG ASSEMBLY

CLLA Series

- Limiter lug assemblies are complete units that are comprised of a fusible element, a high-temperature filler shell and an insulating sleeve.
- When ordering individual components, refer to the following pages.
- The “CLLAP” limiters are designed for use on paper-insulated cable and feature an oil-tight seal.
- For 125/216V applications only.



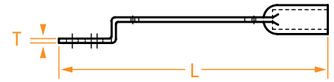


PART NUMBER		CABLE SIZE	FIGURE	DIMENSIONS IN INCHES					
RUBBER INS.	PAPER INS.			L	W	X	H	P	T
CLLA4/0N	CLLAP4/0N	4/0	1	10	1	1-3/4	9/16	2-7/16	9/64
CLLA4/0-A	CLLAP4/0-A	4/0	2	9-3/4	1	1	7/16	2-3/16	9/64
CLLA250N	CLLAP250N	250	1	10	1-1/8	1-3/4	9/16	2-7/16	5/32
CLLA250-A	CLLAP250-A	250	2	9-3/4	1-1/8	1	7/16	2-3/16	5/32
CLLA300N	CLLAP300N	300	1	10-7/8	1-3/16	1-3/4	9/16	2-9/16	5/32
CLLA300-A	CLLAP300-A	300	2	10-3/8	1-3/16	1	7/16	2-5/16	5/32
CLLA350N	CLLAP350N	350	1	10-7/8	1-5/16	1-3/4	9/16	2-9/16	3/16
CLLA350-A	CLLAP350-A	350	2	10-3/8	1-5/16	1	7/16	2-5/16	3/16
CLLA400N	CLLAP400N	400	1	10-3/4	1-7/16	1-3/4	9/16	2-9/16	3/16
CLLA400-A	CLLAP400-A	400	2	10-1/2	1-7/16	1	7/16	2-5/16	3/16
CLLA500N	CLLAP500N	500	1	11-3/4	1-1/2	1-3/4	9/16	3	7/32
CLLA500-A	CLLAP500-A	500	2	11-1/2	1-15/16	1	7/16	2-3/4	1/4
CLLA750N	CLLAP750N	750	1	11-3/4	1-15/16	1-3/4	9/16	3	1/4
CLLA750-A	CLLAP750-A	750	2	11-1/2	1-15/16	1	7/16	2-3/4	1/4

LIMITER LUGS

CLL Series

- Made of pure copper.
- Tin-plated to resist corrosion.
- These connectors combine the functions of fuse and a connector.
- Designed to clear faults great enough to cause cable damage, while not clearing minor overloads.
- The “CLLP” and “CLLPL” fuses are designed for use on paper-insulated cable and feature an oil-tight seal.
- For 125/216V applications only.



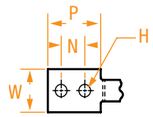


Figure 1

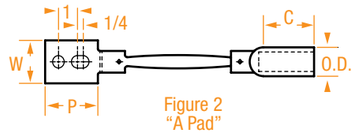


Figure 2
“A Pad”

PART NUMBER		CABLE SIZE	DIMENSIONS IN INCHES							
RUBBER INS.	PAPER INS.		L	C	W	P	H	N	T	O.D.
CLL4/0-N	CLLP4/0-N	4/0	8-1/2	1-7/8	1	2-7/16	9/16	1-3/4	9/64	11/16
CLL4/0-A	CLLP4/0-A	4/0	8-1/2	1-7/8	1	2-7/16	7/16	1	9/64	11/16
CLL250-N	CLLP250-N	250	8-1/2	1-7/8	1-1/8	2-7/16	9/16	1-3/4	5/32	3/4
CLL250-A	CLLP250-A	250	8-1/2	1-7/8	1-1/8	2-7/16	7/16	1	5/32	3/4
CLL300-N	CLLP300-N	300	9	2	1-3/4	2-9/16	9/16	1-3/4	5/32	13/16
CLL300-A	CLLP300-A	300	9	2	1-3/4	2-9/16	7/16	1	5/32	13/16
CLL350-N	CLLP350-N	350	9	2	1-5/16	2-9/16	9/16	1-3/4	3/16	7/8
CLL350-A	CLLP350-A	350	9	2	1-5/16	2-9/16	7/16	1	3/16	7/8
CLL400-N	CLLP400-N	400	9-1/4	2-1/8	1-7/16	2-9/16	9/16	1-3/4	3/16	31/32
CLL400-A	CLLP400-A	400	9-1/4	2-1/8	1-7/16	2-9/16	7/16	1	3/16	31/32
CLL500-N	CLLP500-N	500	10-1/4	2-9/16	1-1/2	3	9/16	1-3/4	7/32	1-1/16
CLL500-A	CLLP500-A	500	10-1/4	2-9/16	1-1/2	3	7/16	1	7/32	1-1/16
CLL750-N	CLLP750-N	750	10-1/4	2-9/16	1-15/16	3	9/16	1-3/4	1/4	1-5/16
CLL750-A	CLLP750-A	750	10-1/4	2-9/16	1-15/16	3	7/16	1	1/4	1-5/16

LIMITER LUG ACCESSORIES – INSULATING SLEEVES & SHELLS

LLS Series

- Limiter lug insulating sleeves are used to hold the high-temperature filler shell and to minimize the need for hand taping.
- Molded from EPDM rubber, these sleeves have excellent mechanical and electrical properties.

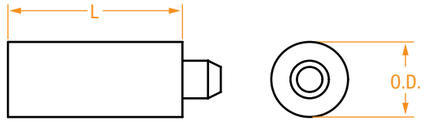


Figure 1

PART NUMBER	CABLE SIZE (RANGE)	FIGURE	DIMENSIONS IN INCHES	
			O.D.	L
LLS4/0	4/0 to 250	1	7/8	6-5/8
LLS500	300 to 500	1	1-11/32	8-1/2
LLS750	750	1	1-1/2	8-1/2

HIGH-TEMPERATURE FILLER SHELLS FOR LIMITER LUGS

ALLS Series

- High-temperature shells provide an arcing chamber for the limiter element under overload conditions.

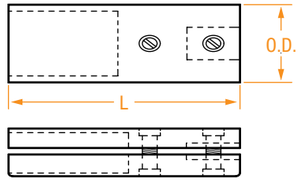


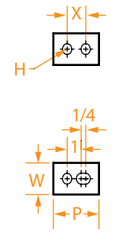
Figure 2

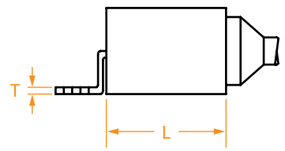
PART NUMBER	CABLE SIZE (RANGE)	FIGURE	DIMENSIONS IN INCHES	
			O.D.	L
ALLS250	4/0 TO 250	2	1-7/16	5-11/16
ALLS500	300 TO 500	2	1-7/8	7-1/8
ALLS750	750	2	1-7/8	7-1/2

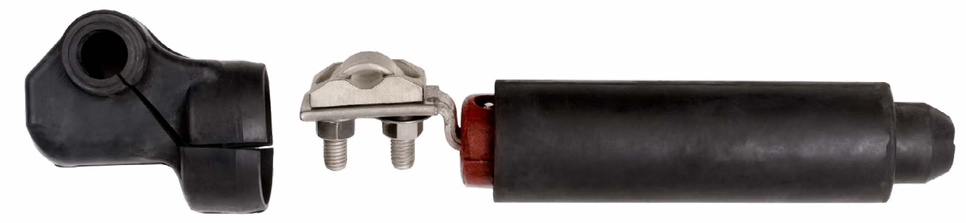
RING BUS LIMITER LUG ASSEMBLY

CLLA-UBLT Series

- Ring Bus Limiter Lug assemblies are complete units that are comprised of a fusible element, a high-temperature filler shell, an insulating sleeve, U-bolt and saddle and rubber hood.
- Facilitates connection to secondary network "ring bus"
- Protects network secondary cable with fusible element contained within a high-temperature filler shell
- For 125/216V applications only.







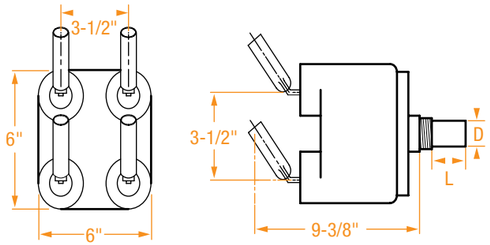
PART NUMBER*	CABLE SIZE	DIMENSIONS IN INCHES					
RUBBER INS.		L	W	X	H	P	T
CLLA4/0N-UBOLT	4/0	10	1	1-3/4	9/16	2-7/16	9/64
CLLA250N-UBOLT	250	10	1-1/8	1-3/4	9/16	2-7/16	5/32
CLLA300N-UBOLT	300	10-7/8	1-3/16	1-3/4	9/16	2-9/16	5/32
CLLA350N-UBOLT	350	10-7/8	1-5/16	1-3/4	9/16	2-9/16	3/16
CLLA400N-UBOLT	400	10-3/4	1-7/16	1-3/4	9/16	2-9/16	3/16
CLLA500N-UBOLT	500	11-3/4	1-1/2	1-3/4	9/16	3	7/32
CLLA750N-UBOLT	750	11-3/4	1-15/16	1-3/4	9/16	3	1/4

* Each Ring Bus Assembly is available with "A" pad. To order, replace "N" with "A". See page UG15 for more information about "A" pad limiter lugs.

NETWORK PROTECTOR TERMINALS

NPT Series

- Network protector terminals are designed for use on network protectors.
- Terminals available with built-in cable limiters (limitered) or without (non-limitered).
- The fusible elements are made of pure copper and tin-plated for corrosion resistance.
- The element is enclosed in a high-temperature shell which provides separate arcing chambers for each fusible section.
- The terminals are molded with silicone rubber for optimum electrical properties, high-temperature capabilities and low-compression set.



PART NUMBER	NETWORK PROTECTOR MANUFACTURER	CABLE SIZE	DRAWING NO.	# OF CABLE PORTS	FIGURE	LIMITERED OR NON-LIMITERED	DIMENSIONS IN INCHES	
							B (L)	D
NPT523-0925 (was NPT500A)	Richards 313NPs & Westinghouse	500	MN-EO2167-B	4	1	Limitered **	1-7/8	1-1/4
312-1316-00	Richards 313NPs & Westinghouse	500	MN107447	4	1	Non-Limitered	1-7/8	1-1/4
ze	Richards 313NPs & Westinghouse	750	MN106980	6	2	Limitered **	2-1/8	3-3/4
312-1315-00*	Richards 313NPs & Westinghouse	500	MN106147	4 2-hole spades	4	Limitered **	1-7/8	1-1/4
312-1315-01*	Richards 313NPs & Westinghouse	500	MN106147	4 2-hole spades	4	Non-Limitered	1-7/8	1-1/4
312-1268-00	Richards 313NPs & Westinghouse	500	MN101003	4	3	Limitered **	1-7/8	1-1/4
312-1269-00	Richards 313NPs & Westinghouse	500	MN101003	4	3	Non-Limitered	1-7/8	1-1/4
NPT523-0909 (was NPT500B)	Richards 137NPs & General Electric	500	MN-EO2167-B	4	1	Limitered **	1-1/4	1-1/4
312-1330-00	Richards 137NPs & General Electric	500	MN111240	4	1	Non-Limitered	1-1/4	1-1/4

* Terminal supplied with four rubber sleeves, four two-hole 500 mcm copper lugs and hardware.
** For 125/216V applications only.

NETWORK PROTECTOR TERMINALS

NPT Series (continued)

Figure 1

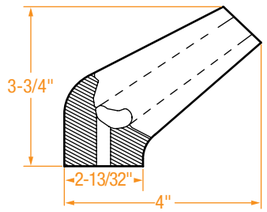
Figure 2

Figure 3
Terminal supplied with four rubber boots.

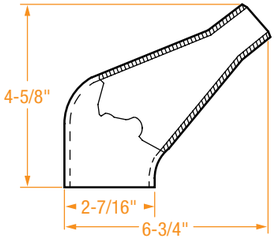
Figure 4
Terminal supplied with four rubber sleeves
Shown, 4 CL18-2N (500 mcm Cu lugs) and hardware.

ACCESSORIES FOR NETWORK PROTECTOR TERMINALS

High-Temperature Shell



Insulating Sleeve

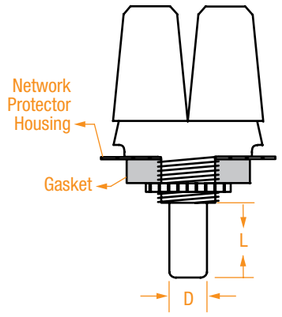


PART NUMBER	CABLE	SHELL OR SLEEVE
HTS-500	500 kcmil cable	High Temperature Shell
HTS-750	750 kcmil cable	High Temperature Shell
ES-500	500 kcmil cable	Insulating Sleeve
ES-750	750 kcmil cable	Insulating Sleeve

DISCONNECT NETWORK PROTECTOR TERMINALS

NPT-DISC Series

- The Richards disconnect network protector terminals are designed for fast and easy installations. The disconnect legs on the following page are crimped onto the system cable and then plugged into the terminal. The disconnect leg forms a water-tight seal around the terminal, so there is no taping.
- Disconnect network protector terminals are designed for use on General Electric or Westinghouse network protectors.
- The terminals are molded with silicone rubber for optimum electrical properties, high-temperature capabilities and low-compression set.
- Disconnect legs, shown on the next page, come limitered or unlimitered, which eliminates the need to externally limiter each cable.

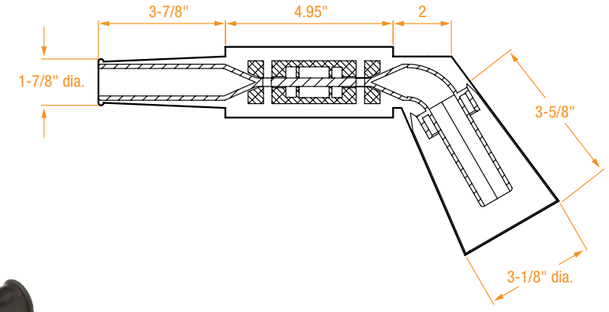


PART NUMBER	NETWORK PROTECTOR MANUFACTURER	CABLE SIZE	DRAWING NUMBER	NP TYPE	# OF POSITIONS	DIMENSIONS IN INCHES	
						L	D
312-1228-00	Richards 313NPs & Westinghouse	500	L9821	313NP, 2250 A	4	2-3/4	1-3/4
312-1228-00	Richards 313NPs & Westinghouse	500	L9821	313NP, 2250 A	8	2-3/4	3-3/4
312-1200-00	Richards 313NPs & Westinghouse	500	MN100984	313NP, 1875A	4	2-3/4	1-1/4
312-1265-00	Richards 313NPs & Westinghouse	500	MN100919	313NP wall mount, 2500 & 3500A	8	1-9/16	2-3/4
312-1270-00	Richards 313NPs & Westinghouse	500	MN100918	313NP 2500 & 3500 A	8	2-5/8	2-3/4
237-1229-00	Richards 137NPs & General Electric	500	MN103252	MG8, 1875A	4	1-1/4	1-3/4
312-1228-00	Richards 137NPs & General Electric	500	L9821	313NP	4	2-3/4	1-3/4
237-1221-00	Richards 137NPs & General Electric	500	MN101210	MG8 – 3500A	8	1-5/8	3-3/4
237-1245-00	Richards 137NPs & General Electric	500	MN105056	MG14 – 4500A	8	2-1/8	3-3/4
237-1234-10	Richards 137NPs & General Electric	500	MN105533	Special	4	1-1/8	1-1/4

DISCONNECT LEGS FOR DISCONNECT NETWORK PROTECTOR TERMINALS

RDL Series

- The disconnect legs are available fused or unfused, straight or angled.
- Made of pure copper.
- Accepts 500 kcmil cable.
- Accessories available when using the disconnect.



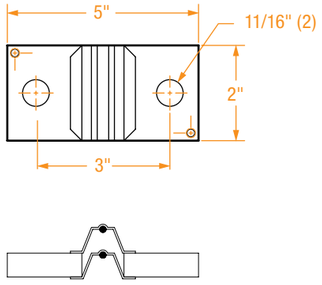
PART NUMBER	DISCONNECT LEG TYPE	
RDL-FA500	Fused *	Angled
RDL-US500	Unfused	Straight
RDL-UA500	Unfused	Angled

* For 125/216V applications only.

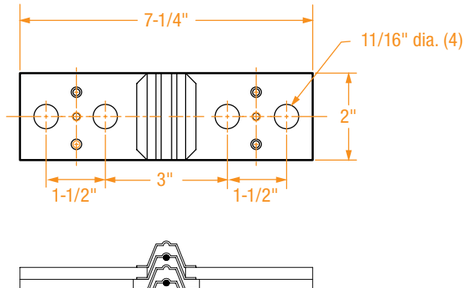
PROTECTOR FUSES – LOW-LOSS “S” FUSE

LLF Series

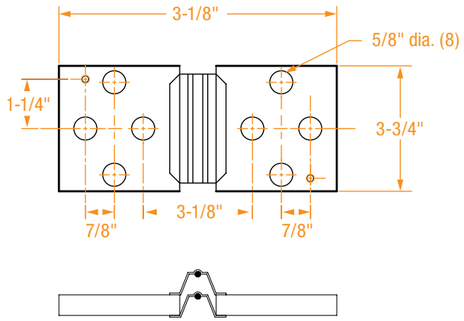
- LLF-KA fuses are to be used on 125/216V network protectors.
- LLF-KA fuses are made from silver-plated copper with a tin or cadmium overlay in the element.
- LLF-KA fuses are “low loss” meaning they radiate a limited amount of heat until they approach their melting temperature.



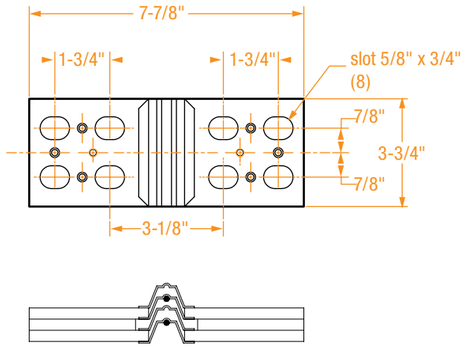
LLF-2KA
2,000 Amperes



LLF-2.25 KA
2,250 Amperes



LLF-3KA/LLF-4KA
3,000/4,000 Amperes
(Same hole configuration
for both sizes)

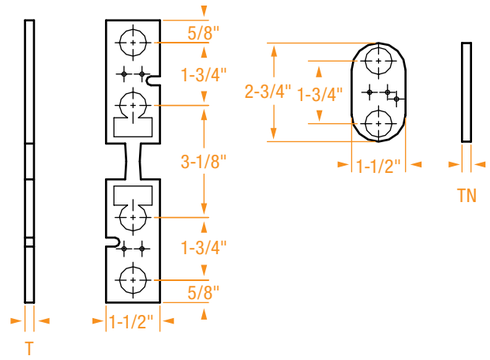


LLF-5KA
5,000 Amperes

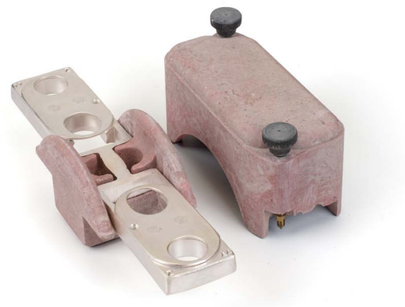
NETWORK PROTECTOR FUSES – “Z” FUSE

NPF-Q Series

- Network protector fuses are used for backup. They are designed to coordinate with the protector relay and should not blow on a network feeder fault before the relays have time to trip the protector. However, in case the protector fails to open, the fuses must blow in time to prevent transformer damage.
- Fuses are made of pure copper and are available with tin or silver plating depending on the application.
- Time current curves are available upon request.



PART NUMBER	TRANSFORMER FULL LOAD (NORMAL) AMPERES	FUSE “T” DIMENSIONS IN INCHES	WASHER “TN” DIMENSIONS IN INCHES
NPF-5-Q	270	.050	28/64
NPF-7.5-Q	400	.075	26/64
NPF-11-Q	600	.110	24/64
NPF-15-Q	800	.150	21/64
NPF-22.5-Q	1200	.225	17/64
NPF-25-Q	1333	.250	15/64
NPF-30-Q	1600	.300	12/64
NPF-37.5-Q	2000	.375	8/64
NPF-44-Q	2500	.440	4/64
NPF-50-Q	3000	.500	N/A

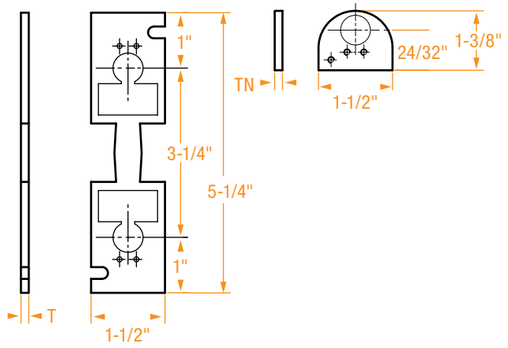


Fuse cover is available for 125/216V applications. The part number is 312-3120-00.

NETWORK PROTECTOR FUSES – "Y" FUSE

NPF-L Series

- Network protector fuses are designed to coordinate with the network protector relay and should not blow on a network feeder fault before the relay has time to trip the protector. However, in case the protector fails to open, the fuses must blow in time to prevent transformer damage.
- Fuses are made of pure silver-plated copper.
- For network protectors with two bolt-fuse mountings.
- Fuse mounting enclosure is available for 125/216V network-protector applications.
- Time-current curves available upon request.

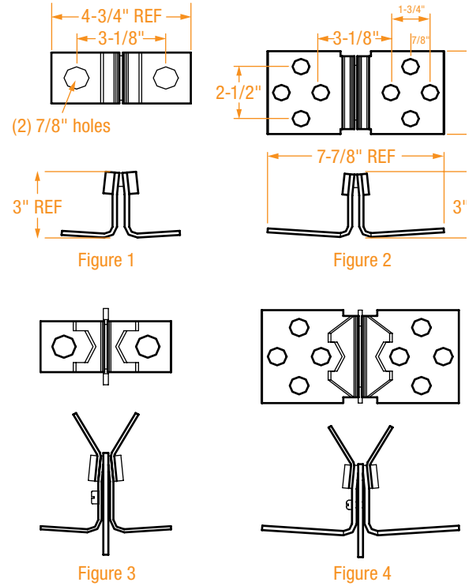


PART NUMBER	TRANSFORMER FULL LOAD (NORMAL) AMPERES	FUSE "T" DIMENSIONS IN INCHES	WASHER "TN" DIMENSIONS IN INCHES
NPF-11-L	800	.110	3/8
NPF-15-L	1200	.150	5/16
NPF-22.5-L	1600	.225	1/4
NPF-25-L	1875	.250	15/64
NPF-30-L	2000	.300	3/16
NPF-37.5-L	2500	.375	1/8
NPF-44-L	2825	.438	1/16
NPF-50-L	3000	.500	N/A
NPF-50-L	3500	.500	N/A

Fuse cover is available for 125/216V applications. The part number is 312-3120-00.

LEAD ALLOY NETWORK PROTECTOR FUSES – LAMINATED TYPE – STANDARD SPEED

Alloy Fuse Series



PART NUMBER		AMP.	VOLTAGE	OEM EQUIV. (OPEN/ VENTILATED)	OEM EQUIV. (SUBMERSIBLE/ NEMA 1A)	FIGURE
OPEN/VENTILATED ENCLOSURE	SUBMERSIBLE/ NEMA 1A ENCLOSURE					
312-3200-00	312-3201-00	800	120/208	1173006	1173007	1
312-3250-00	312-3251-00	800	277/480	1254871	1254872	3
312-3201-00	312-3202-00	1200	120/208	1173007	1173008	1
312-3251-00	312-3252-00	1200	277/480	1254872	1300550	3
312-3202-00	312-3203-00	1600	120/208	1173008	1173010	1
312-3252-00	312-3253-00	1600	277/480	1300550	1300551	3
312-3204-00	312-3205-00	1875	120/208	1173009	1173011	1
312-3254-00	312-3255-00	1875	277/480	1346424	14A5795G06	3
312-3110-00	312-3208-00	2500	120/208	1346917	1247325	2
312-3259-00	312-3260-00	2500	277/480	1491538	1332318	4
312-3208-00	312-3209-00	2825	120/208	1247325	1291274	2
312-3260-00	312-3261-00	2825	277/480	1332318	1615572	4
312-3208-00	312-3211-00	3000	120/208	1247325	12A3822G07	2
312-3260-00	312-3263-00	3000	277/480	1332318	15A4106G04	4
312-3209-00	312-3211-00*	3500	120/208	1291274	12A3822G07	2
312-3261-00	312-3263-00*	3500	277/480	1615572	15A4106G04	4

* This fuse to be used only in a submersible 3500 Ampere unit.

LEAD ALLOY NETWORK PROTECTOR FUSES – LAMINATED TYPE – TIME LAG

Alloy Fuse Series (continued)

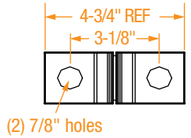


Figure 1

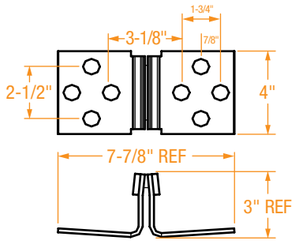


Figure 2

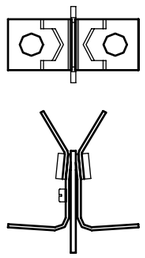


Figure 3

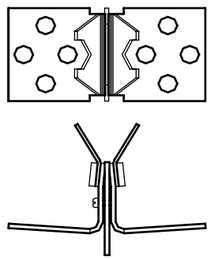


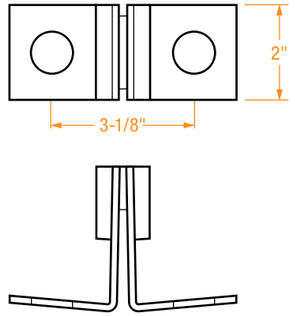
Figure 4

PART NUMBER		AMP.	VOLTAGE	OEM EQUIV. (OPEN/ VENTILATED)	OEM EQUIV. (SUBMERSIBLE/ NEMA 1A)	FIGURE
OPEN/ VENTILATED ENCLOSURE	SUBMERSIBLE/ NEMA 1A ENCLOSURE					
312-3300-00	312-3301-00	800	120/208	1019506	1019507	1
312-3500-00	312-3501-00	800	277/480	1300576	1300577	3
312-3301-00	312-3302-00	1200	120/208	1019507	1019508	1
312-3501-00	312-3502-00	1200	277/480	1300577	1300578	3
312-3302-00	312-3303-00	1600	120/208	1019508	1019510	1
312-3502-00	312-3503-00	1600	277/480	1300578	1300579	3
312-3304-00	312-3100-00	1875	120/208	1019509	1019511	1
312-3305-00	312-3306-00	1875	277/480	–	–	3
312-3308-00	312-3309-00	2500	120/208	12A3822G06	1649110	2
312-3506-00	312-3507-00	2500	277/480	–	405D312G01	4
312-3309-00	312-3311-00	2825	120/208	1649110	–	2
312-3507-00	312-3511-00	2825	277/480	405D312G01	–	4
312-3309-00	312-3310-00	3000	120/208	1649110	1649797	2
312-3507-00	312-3508-00	3000	277/480	405D312G01	405D312G03	4
312-3310-00		3500	120/208	1649797	–	2
312-3508-00		3500	277/480	405D312G03	–	4

LEAD ALLOY NETWORK PROTECTOR FUSES – NON-LAMINATED TYPE (SINGLE LAYER)

NF Series

- Made from silver-plated copper and tin/lead solder.
- May be used at 125/216V or 277/480V.
- NF fuses have a lower loss, and a lower operating temperature than the equivalent copper link fuses.
- Time-current curves available upon request.



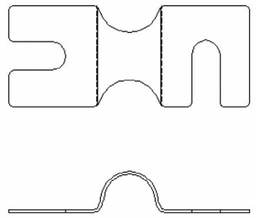
PART NUMBER	NETWORK PROTECTOR RATING
NF-2	800
NF-3	1200
NF-4	1600
NF-5	1875
NF-6	2000
NF-7*	2500
NF-10*	3000
NF-10*	3500

* Have two NEMA-spaced holes on each side.

COPPER LINK FUSES

NWP Series

- Made from silver-plated copper.
- May be used at 125/216V or 277/480V.
- The most inexpensive network-protector fuse available.
- Time-current curves available upon request.



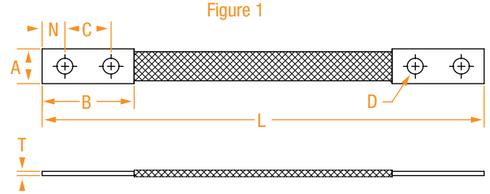
PART NUMBER	NETWORK-PROTECTOR RATING
NWP-7	800
NWP-6	1200
NWP-5	1600
NWP-5	1875
NWP-4	2000
NWP-3	2500

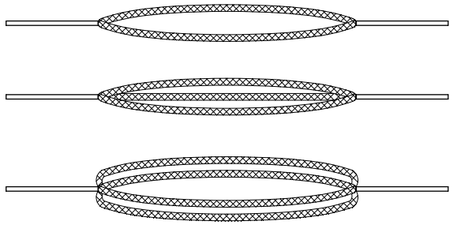
COPPER BRAIDS

CB Series

- Made of flexible pure copper braid.
- Designed to compensate for misalignment or equipment, dampen vibrations and take up linear expansion and contraction.
- Pads can be drilled to any specification.
- For special lengths and drillings, contact the factory.

Figure 1





PART NUMBER	RATING	DIMENSIONS IN INCHES						
		A	L	B	D	N	C	T
CB504-0530	900A	1-3/4	9-1/4	3	3/4	3/4	1-1/2	3/4
CB570-2774	1200A	2	13-1/2	3-1/8	9/16	11/16	1-1/2	7/8
CB183030	–	2	32	2-1/2	1/2	9/16	N/A one-hole	1/8
CB396271	–	1	1" x 15' copper wire mesh					
CB396740	–	1	1" x 100' copper wire mesh					

SECONDARY SPADES

TRSS Series

- Designed to fit onto pad mount transformer's secondary studs.
- The "clamp-on" design offers a solid and reliable connection, while not damaging the transformer stud.
- Made of solid copper or aluminum.
- The threaded studs and nuts are made of stainless steel.
- Tin-plated to resist corrosion.
- Available in an assortment of shapes and sizes for any transformer stud size.
- Spaced according to NEMA standards.

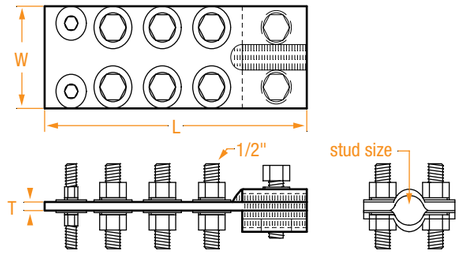


Figure 1

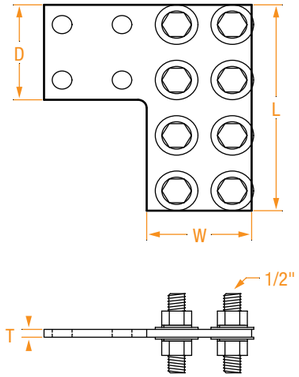


Figure 2

PART NUMBER	MATERIAL	FIGURE	DIMENSIONS IN INCHES				
			L	T	W	D	STUD SIZE
TRSS-C100	Cu	1	8-1/2	1/4	3	–	5/8
TRSS-C101	Cu	1	8-1/2	1/4	3	–	1
TRSS-C102	Cu	1	6-3/4	1/2	3	–	5/8
TRSS-A200	Al	2	6-1/2	1/2	3-1/16	3	four-hole NEMA Pad
TRSS-A201	Al	2	4-5/8	1/2	3	3-1/8	two-hole NEMA Pad

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

SET SCREW CONNECTORS

SSCRW Series

- Made of aluminum alloy.
- Used on pad-mounted transformers.
- Accepts a range of conductor sizes – from #8 to 4/0.
- Two-hole NEMA pad.
- Comes with a plastic cover.

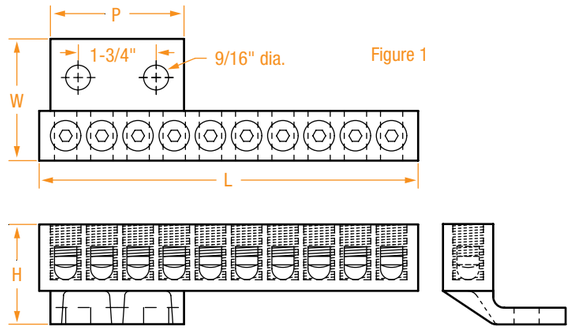


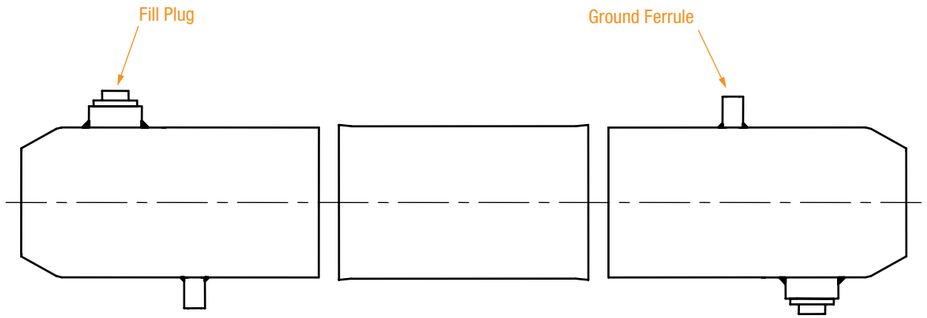
Figure 1

PART NUMBER	DIMENSIONS IN INCHES			
	L	H	W	P
SSCRW10-12-1	8-1/2	2-1/4	2-3/4	3

JOINT CASINGS

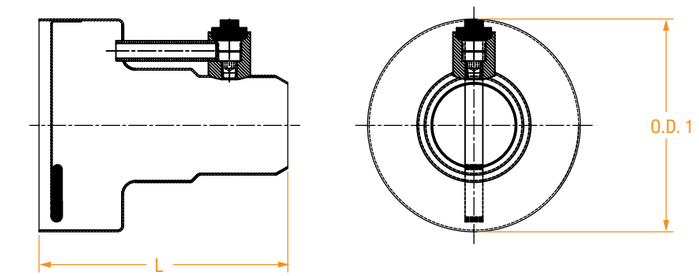
JC Series

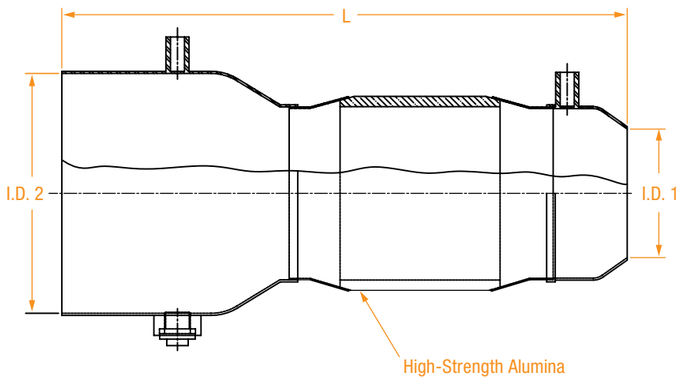
- Used on low pressure oil filled transmission cable — 69kV, 138kV and 345kV.
- Made from spun copper.
- Fill plugs allow addition of oil or compound.



Available with inside diameters of 5, 7 & 9 inches.

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.





CABLE RACK ARMS

RA Series

- Made of galvanized steel.
- Used to support underground cables, splices, crab joints and other accessories in manholes and vaults.

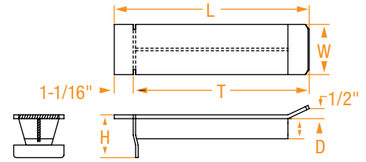


Figure 1

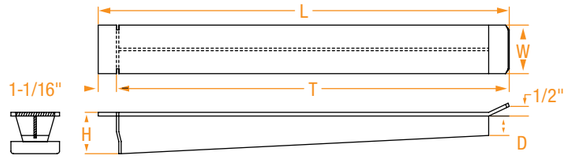


Figure 2

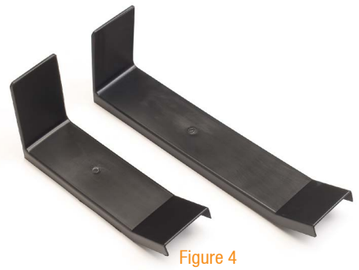


Figure 4

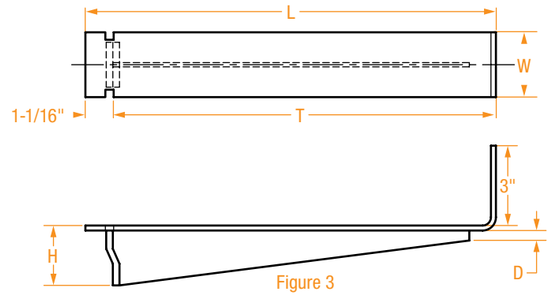


Figure 3

Cable Rack Arms

PART NUMBER*	FIGURE	DIMENSIONS IN INCHES			
		L	T	H	D
RA-1W	1	9-11/16	8-5/8	2-7/16	1
RA-2W	2	13-13/16	12-3/4	2-7/16	3/8
RA-3W	2	21-3/16	19-9/16	2-7/16	1/2
RA-1W-90	3	10	9-15/16	2-7/16	3/8
RA-2W-90	3	15-1/4	12-3/4	2-7/16	3/8
RA-3W-90	3	21-3/16	20-1/16	2-7/16	3/8

Rack Arm Covers

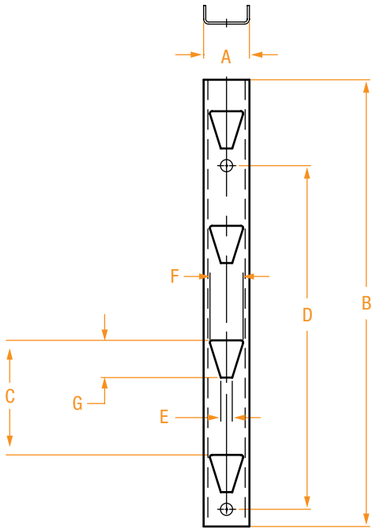
PART NUMBER	FIGURE	DIMENSIONS IN INCHES			
		L	T	H	D
RA-1W-C	4	9	–	4.5	–
RA-2W-C	4	13	–	4.5	–

* Add "-A" for the rack arms assembled with the covers.

STANCHIONS

RA Series

- Made of galvanized steel.
- Used to support cables in manholes.
- Rack arms available in three different sizes.



PART NUMBER	# OF SLOTS	DIMENSIONS IN INCHES						
		A	B	C	D	E	F	G
003-0346	1	4	9	–	6-3/4	1	2-29/32	3-1/4
003-0353	2	4	17-1/4	8	10	1	2-29/32	3-1/4
003-0379	2	4	19	10	10	1	2-29/32	3-1/4
003-0387	2	4	21	12	10	1	2-29/32	3-1/4
003-0395	3	4	25-3/4	8	23-1/4	1	2-29/32	3-1/4
003-0437	4	4	32	8	23-1/4	1	2-29/32	3-1/4
003-0445	4	4	39	10	30	1	2-29/32	3-1/4
003-0452	4	4	45	12	30	1	2-29/32	3-1/4
003-0460*	6	4	48	8	23-1/4 & 16*	1	2-29/32	3-1/4
003-0478*	6	4	59	10	20 & 29-1/2*	1	2-29/32	3-1/4

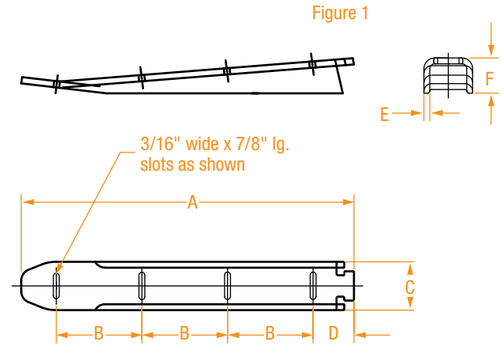
* Two “D” dimensions are given because there are three mounting holes. The first dimension is from the top hole to the center mounting hole. The second dimension is from the center hole to the bottom mounting hole.

STANDARD CABLE RACK ARMS

SRA Series

- Made from galvanized steel channel.
- Epoxy coated.
- Fits standard cable racks.

Figure 1



PART NUMBER	# OF SLOTS	DIMENSIONS IN INCHES					
		A	B	C	D	E	F
SRA-4	2	4-1/2	2-1/4	1-1/2	1-7/16	3/16	1-1/4
SRA-7	3	8	2-3/4	1-1/2	1-1/4	3/16	1-1/4
SRA-10*	4	10-11/16	2-3/4	1-1/2	1-5/16	3/16	1-1/8
SRA-14	5	14-1/2	2-3/4	1-1/2	2-1/2	3/16	1-5/8

* This size has one 1/2" diameter hole between the 2nd and 3rd slots.

PIGTAIL PLUG

PTP Series

- Designed to provide a permanently installed waterproof 115V NEMA 5-15R receptacle for underground application.
- Constructed with 2 ft. of 2/0 copper wire for connection to the 115V source and 2 lengths of #12 wire for the neutral and ground.
- Preassembled internal connection to the receptacle is enclosed in a polyurethane potting material to prevent oil or water infiltration through the wire strands.
- The 2/0 hot leg is designed to provide a rigid but bendable support for the entire receptacle.
- The cap is sealed water tight with 2 Buna-N O-rings. A deep grooved finish on both the cap and body affords positive grip even when wearing dielectric gloves.
- Connection to the 115V source can be accomplished with a mechanical vise connector or compression sleeve onto an available crab leg. Ground and neutral connections can utilize a mechanical vise connector or compression terminal lug.

PART NUMBER	LENGTH OF 4/0 SOURCE CABLE (INCHES)	LENGTH OF #12 NEUTRAL AND GROUND CABLES (INCHES)
PTP-1	12	24

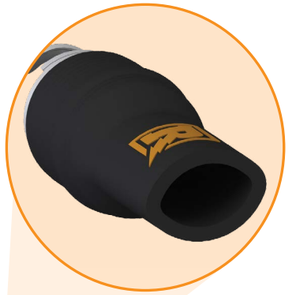
* Ends of Neutral and Ground wires can be connected to using a 4/0 crimp connector

SECONDARY COLD-SHRINK SPLICE

PSCS Series

- Available in several sizes, for use on secondary cable, at secondary voltages (below 600V).
- Molded from high-strength silicone rubber, resistant to tearing and abrasion.
- Eliminates the need for a blow-torch in confined spaces.
- Two short ribbon-cores allow for easy removal, even in tight spaces.
- When the core is removed, the splice “automatically” creates a watertight seal. No additional steps or parts required.
- Oval cross-section of the splice has been engineered to make installation easy while still providing excellent heat dissipation for the connector underneath.

PART NUMBER	CABLE SIZE
PSCS-12	4/0
PSCS-18	500MCM
PSCS-23	750MCM



Cutaway A: Oval cross-section reduces friction, which is particularly helpful when sliding the splice on the cable.

Cutaway B: Splice tightly conforms to connector’s shape resulting in excellent heat dissipation.

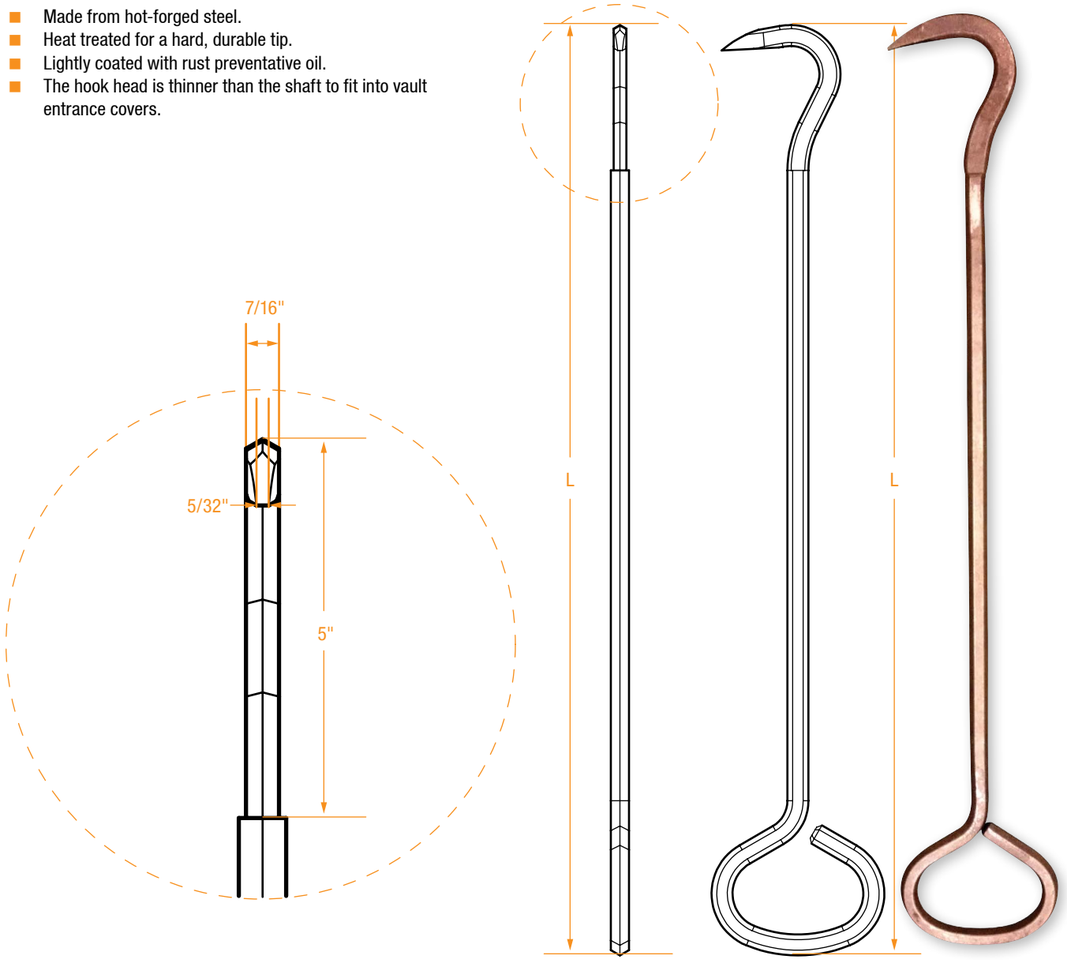
Splice before installation.

Installed Splice:
Both cores are removed with ease and splice shrinks down to form a watertight seal.

LIFTING HOOKS

RLH Series

- Made from hot-forged steel.
- Heat treated for a hard, durable tip.
- Lightly coated with rust preventative oil.
- The hook head is thinner than the shaft to fit into vault entrance covers.



PART NUMBER	L
RLH-1	24
RLH-2	28
RLH-3	32
RLH-4	36

INSULATED T-WRENCH

- Insulated T-Wrench is commonly used to work on Network Protectors.
- Layer of red insulation underneath black top-coat of insulation provides visual indication of worn or damaged insulation.
- Allows work to be performed at a great distance than by doing the same operation by hand.

PART NUMBER	DESCRIPTION
312-1903-00	INSULATED T-WRENCH, 3/4" x 32”
312-1903-10	INSULATED T-WRENCH, 3/4"x 53 1/2
312-1903-20	INSULATED T-WRENCH, 3/4" x 36"
312-1903-30	INSULATED T-WRENCH, 3/4" x 22"
312-1947-00	INSULATED T-WRENCH 9/16" x 32

UG40

Pole Line Hardware

PLi

EYELETS

- Tapped oversize for easy assembly.
- Made from ductile iron or forged steel.
- Some available forged for additional strength.

RTMBE-1 RTMBL-1 RENUT-1 RBLTE-1

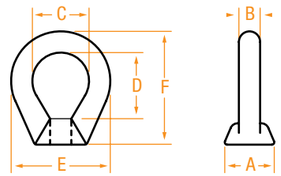


Figure 1

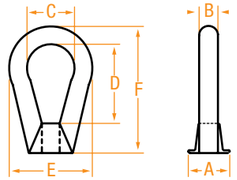


Figure 2

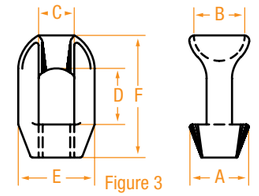


Figure 3

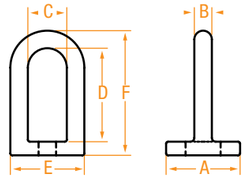


Figure 4

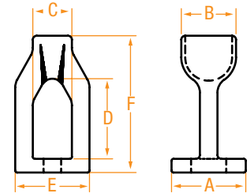


Figure 5

PART NUMBER	FIGURE	BOLT DIA	DIMENSIONS IN INCHES					
			A	B	C	D	E	F
RENUT-1*	1	5/8	1-3/8	9/16	1-1/2	1-3/4	2-5/8	3
RENUT-2	1	3/4	1-3/8	9/16	1-1/2	1-3/4	2-5/8	3
RTMBL-1	3	5/8	1-1/2	1-1/2	7/8	1-3/8	1-7/8	3
RTMBL-2	3	3/4	1-1/2	1-1/2	7/8	1-3/8	1-7/8	3
RBLTE-1	4	5/8	2-3/8	9/16	1-1/4	3	2-3/8	4
RBLTE-2	4	3/4	2-3/8	9/16	1-1/4	3	2-3/8	4
RTMBE-1*	5	5/8	2-3/8	1-1/2	1-1/4	2-9/16	2-3/8	4
RTMBE-2	5	3/4	2-3/8	1-1/2	1-1/4	2-9/16	2-3/8	4-3/8

* RUS Approved.

"J" HOOKS

RJH Series

- Made of steel or bronze.

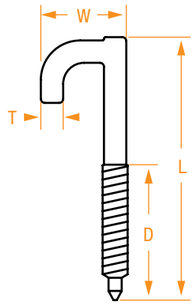


Figure 1

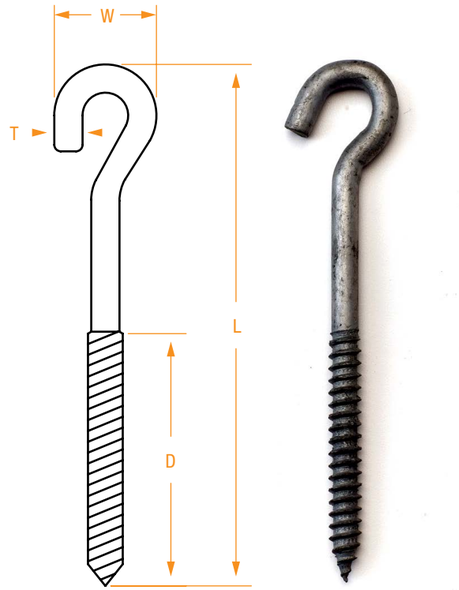


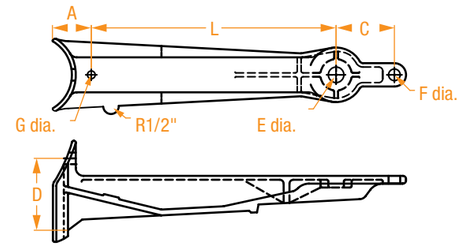
Figure 2

PART NUMBER	MATERIAL	FIGURE	DIMENSIONS IN INCHES			
			L	W	T	D
RJH18666	Steel	1	5	1-9/16	7/16	2-1/2
RJH18667	Bronze	2	6	1-1/4	3/8	2-7/8
RJH18668	Steel	2	6	1-1/4	3/8	3
RJH18669	Steel	2	5	1-1/2	3/8	2-5/8
RJH18670	Steel	2	9	1-1/2	3/8	3

SINGLE-POSITION EQUIPMENT BRACKETS

LPB Series

- Designed for mounting pin or post-type insulators in vertical position.
- Can support arresters and cutouts at the end of the bracket.
- Made of malleable iron ASTMA197-47– hot-dipped galvanized.



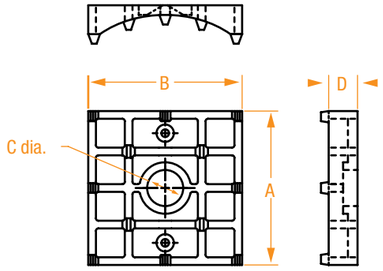
PART NUMBER	FIGURE	BOLT DIA.	DIMENSIONS IN INCHES						
			A	L	C	D	E	F	G
LPB622	1	5/8	2	15-1/2	4-1/2	4-1/2	13/16	11/16	1/2

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

GRID GAINS & CROSSARM GAINS

RGG & RCG Series

- Reduces bolt slotting by spreading the applied load across a large area.
- Fits a large range of pole diameters.
- Reduces the chances of pole fires due to leakage current.
- Made of malleable iron – hot-dipped galvanized.

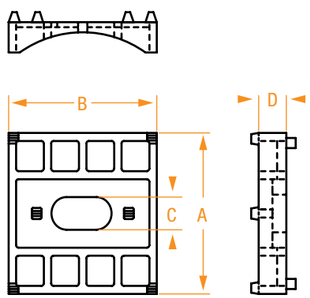


PART NUMBER	FIGURE	DIMENSIONS IN INCHES				POLE RANGE
		A	B	C	D	
RGG122	1	4	4	13/16	3/4	6-12
RGG122-15/16	1	4	4	15/16	3/4	6-12

GRID GAINS

Crossarm Gains

- Provides additional stability.
- Reduces leakage current.
- No wood-to-wood contact.
- Accepts a range of crossarm sizes.
- Made of malleable iron ASTMA197-47– hot-dipped galvanized.



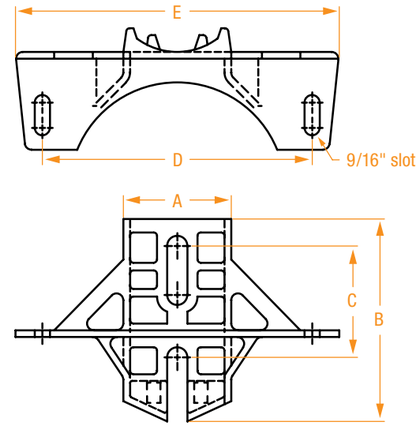
PART NUMBER	DIMENSIONS IN INCHES				POLE RANGE	MAX. BOLT	CROSSARM RANGE
	A	B	C	D			
RCG395	4	4	13/16	7/8	6-12	3/4	31/2 - 51/2

FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

CROSSARM SUPPORT GAINS

RCSG Series

- No need for crossarm braces at capacitor and transformer installations, cable and corner poles.
- Provides additional stability.
- Improves appearance.
- Made of malleable iron ASTMA197-47– hot-dipped galvanized.



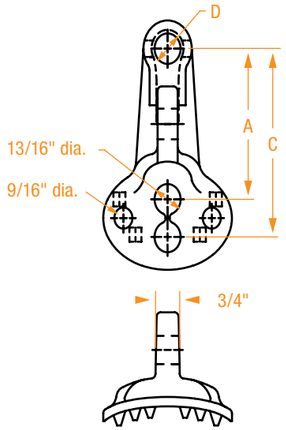
PART NUMBER	DIMENSIONS IN INCHES					POLE RANGE	MOUNTING BOLT		BOLT ON SHELF	CROSSARM RANGE
	A	B	C	D	E		TOP	BOTTOM		
RCSG182	4	7-1/2	6	10	12	6-12	3/4	5/8	9/16 x 1-1/2	31/2 - 61/2
RCSG182-1	4	7-1/2	6	10	12	6-12	3/4	5/8	9/16 x 2	31/2 - 61/2

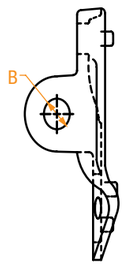
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

POLE-EYE PLATES

RPEP Series

- Designed to allow any guy or dead-end angle up to 90°.
- Will fit on any diameter pole.
- Teeth on the back increase stability.
- Made of hot-dipped galvanized ductile iron.





PART NUMBER	DIMENSIONS IN INCHES			
	A	B	C	D
RPEP88	4	13/16	5	13/16

GUY HOOKS

RGH Series

- Increases the load that can be carried by the through bolt by applying the load in tension, rather than in shear.
- The teeth on the back increase stability.
- Allows easy installation of a guy loop or dead-end device.
- Accepts a wide range of stranding diameters.
- Can handle pull-off angles from 0 to 90°.
- Made of hot-dipped galvanized ductile iron.

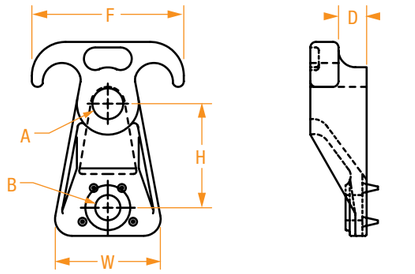


Figure 1

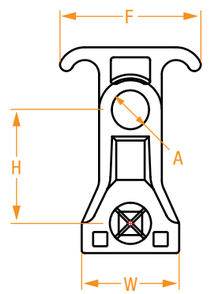
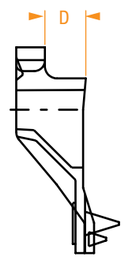


Figure 2



PART NUMBER	FIGURE	DIMENSIONS IN INCHES					MOUNTING HARDWARE		THIMBLE DIAMETER
		H	D	F	P	W	A	B	
RGH133	1	2-3/4	1/2	3-5/8	–	2-1/2	3/4	1/2	1-3/8
RGH133-AX	2	–	7/8	3-1/8	–	2-1/4	5/8	–	1-3/8
RGH135	1	2-3/4	7/8	3-3/4	–	2-1/2	5/8	1/2	1-3/8

AERIAL CLAMPS

RAC Series

- Designed for attaching small aerial cable and triplex.
- The body is tapped to insure proper clamping.
- Teeth on the back increase stability and resist down slotting.
- Made of malleable iron ASTMA197-47– hot-dipped galvanized.

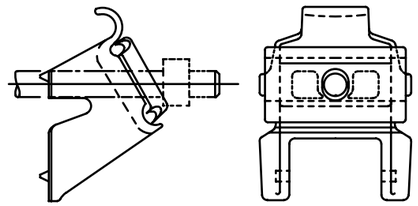


Figure 1

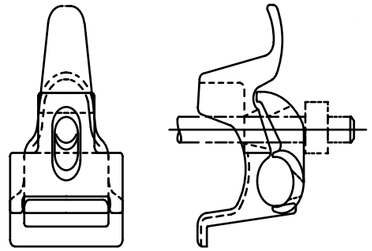


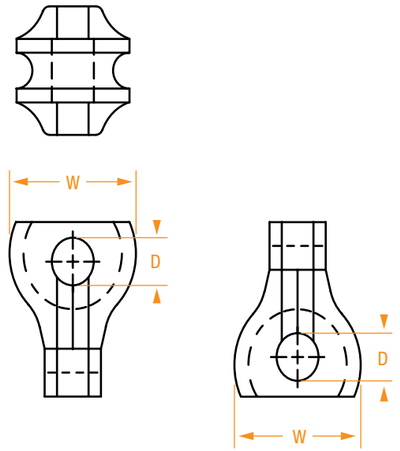
Figure 2

PART NUMBER	FIGURE	MESSENGER RANGE	GRD. WIRE GROOVE SIZE	CLEARANCE POLE TO MESSENGER	MTG. BOLT
RAC197A	1	.375 - .500	#6 AWG - 1/4	1-1/2	5/8
RAC336	2	.43 - .80	–	1-1/2	5/8

TURNBUCKLES

RTB Series

- Designed to alleviate stress point when tying two guy wires together.
- Made of malleable iron ASTMA197-47– hot-dipped galvanized.

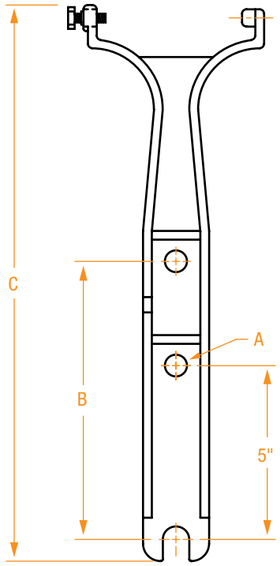


PART NUMBER	DIMENSIONS IN INCHES	
	W	D
RTB071330	2-1/2	3/4

POLE-TOP EXTENSIONS

RPTA Series

- Design aids in dampening vibrations and permits inline grade variations.
- Made of malleable iron ASTMA197-47– hot-dipped galvanized.



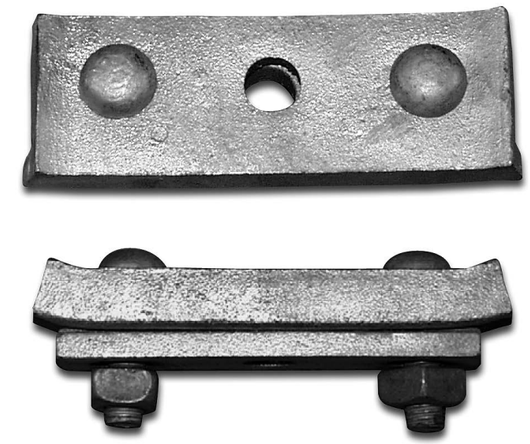
PART NUMBER	MTG. BOLT A	DIMENSIONS IN INCHES	
		B	C
RPTA529	5/8	8	16

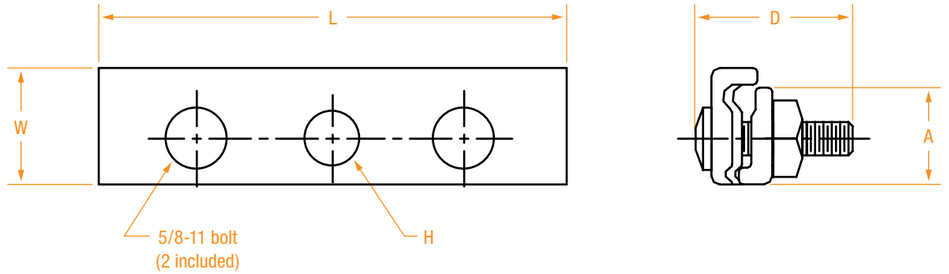
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

THREE-HOLE MESSENGER CLAMPS

RSC1204 Series

- Connects messenger cable to pole.
- Made of hot-dipped galvanized ductile iron.



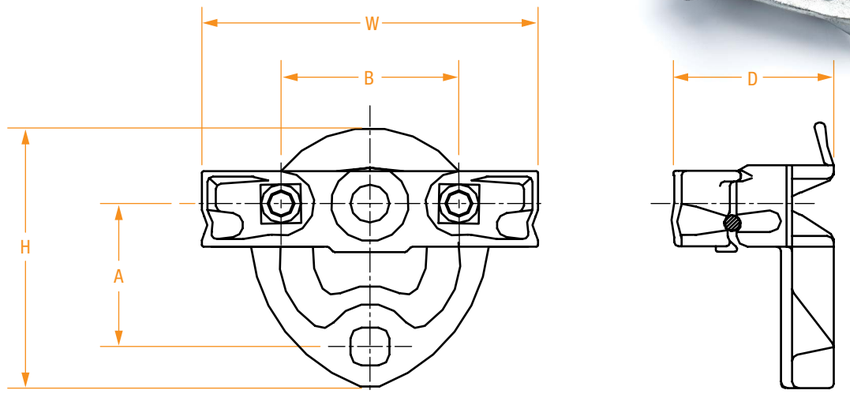


PART NUMBER	DIMENSIONS IN INCHES				
	A	H	D	L	W
RCS1204	1-7/8	13/16	2-3/8	7	2-1/4

HEAVY-DUTY MESSENGER CLAMPS

RHDC Series

- Connects messenger cable to pole.
- Made of hot-dipped galvanized ductile iron.



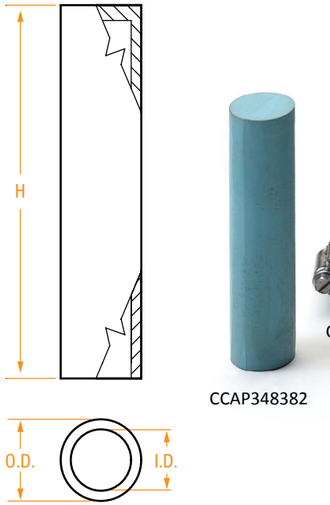
PART NUMBER	DIMENSIONS IN INCHES				
	H	A	B	W	D
RHDC176	6-1/4	3-1/4	4	7-3/8	3-11/16

Rubber Products

CABLE END CAPS

CCAP Series

- Made of ethylene propylene rubber.
- Available in several different sizes.



PART NUMBER *	CABLE SIZE	DIMENSIONS IN INCHES		
		H	OD	ID
CCAP348382	1/0	4-1/2	1	0.60
CCAP348300-B *	3/0	4-1/2	1-3/4	1.1875
CCAP4/0	4/0	2-1/2	1-1/4	.75
CCAP350	350	2-1/2	1-3/8	1
CCAP500	500	2-1/2	1-1/2	1.125
CCAP348383-B**	500	4-1/4	2	1
CCAP750	750	2-1/2	1-3/4	1.375
CCAP348301-B*	750	5-1/2	2-5/16	1.825

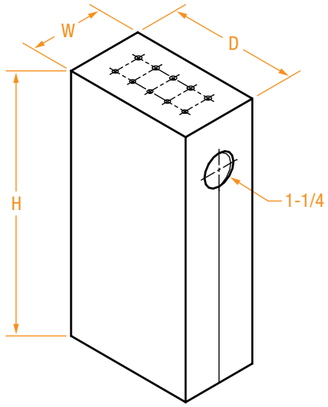
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

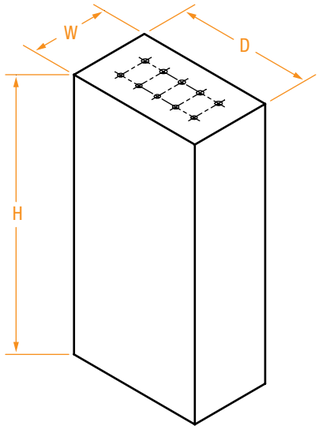
* "-B" indicates that the Cable End Cap comes with a tightening band for easy installation.
** Made for 4kV, marked "4kV DEAD AS ALIVE."

INSULATED CONNECTOR COVERS

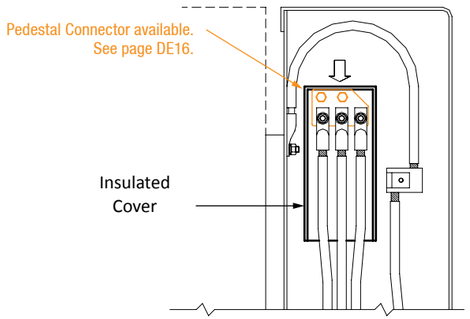
348 Series

- Made from weather-resistant vinyl.
- Insulates and protects electrical connections.
- Available with or without a side split.





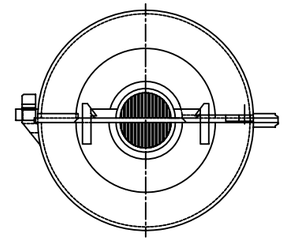
PART NUMBER	SIDE STYLE	DIMENSIONS IN INCHES		
		H	W	D
348458	Seamless	10	5	3
348311	Split	10	5	3

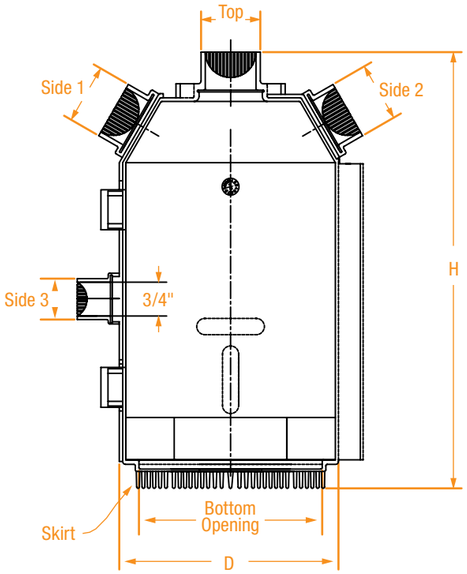


WILDLIFE PROTECTORS – PLASTIC

RWP Series

- Protects against accidental contact between wildlife and equipment bushings.
- Track resistant per ASTM D 2303-97 standard test methods for liquid-contaminant, inclined-plane tracking and erosion of insulating materials.
- Side and top snaps provide secure closure.
- Knock outs on both sides for lightning arresters.





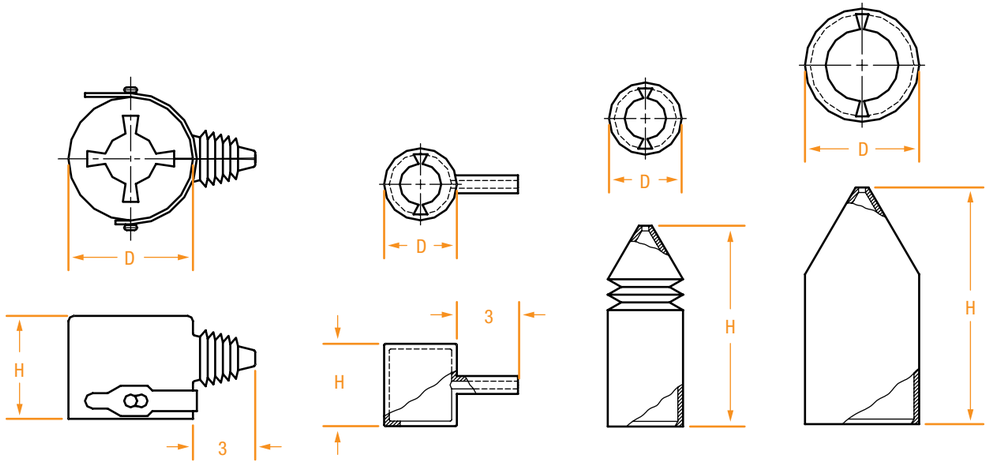
PART NUMBER	DIMENSIONS IN INCHES		# OF CABLE PORTS	SIZE OF CABLE PORTS				
	H	D		TOP	SIDE 1	SIDE 2	SIDE 3	BOTTOM
RWP2	9	4-3/4	3	3/4	3/4	3/4	–	2-1/2
RWP3*	9-1/2	4-3/4	4	1-1/8	1-1/8	1-1/8	3/4	2-1/2
RWP4*	9-1/2	4-3/4	4	1-5/16	1-5/16	1-5/16	15/16	2-1/2
RWP5	7	4-3/4	4	1-5/16	1-5/16	1-5/16	15/16	2-1/2

* Comes with a “skirt” at the bottom and a rubber insert to firmly grip bushing.

WILDLIFE
PROTECTORS – RUBBER

BG Series

- Used on transformers, reclosers and potheads.
- Made of ethylene propylene rubber.
- Highly resistant to ozone and ultraviolet light deterioration.
- Track resistant.
- Easy Installation.
- 20+ year life expectancy.
- Available slit for “HOT” installations.



PART NUMBER	FIGURE	DIMENSIONS IN INCHES	
		H	D
BG30-EN*	1	4 7/8	5 7/8
BG554-5678*	2	4	3-1/2
BG13-8-18	2	5-1/2	4-1/4
BG30-S*	3	4	3-1/2
BG30	3	9-3/4	3-1/2
BG30-414	4	11-1/2	5-1/2
BG30-12	4	11-3/4	4-3/8
BG-RS0218	4	14-1/2	6

* Wildlife protector slit for “HOT” installations.

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Alphabetical Listing by Richards Part Number

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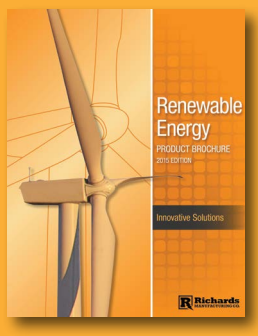

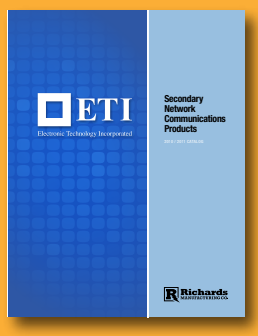

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