



Connectors

PRODUCT CATALOG
2018 EDITION

Overhead &
Underground Equipment



More than 70 years of high-quality products and unmatched customer service

Richards Manufacturing Company has been a trusted supplier of electrical and natural gas distribution products since 1944. Our philosophy has remained the same to this day—we demand excellence in every product we design, test and manufacture. We are dedicated to providing outstanding customer support to satisfy every inquiry, no matter how small.

Within this catalog, you will find a wide selection of electrical distribution products that make up our Connector Product Line. These products represent many decades of engineering and manufacturing excellence. As a family owned and operated business, we have the flexibility to offer solutions to address the special requirements of our diverse customer base. If you do not find what you're looking for in this catalog, please contact the factory to discuss your specific requirements.

Also, from the Richards Manufacturing family

Network Protectors

Richards is the largest supplier of Network Protectors in the world. We manufacture several designs of Network Protectors from 800 through 5100 Amperes. In addition, we recondition utility-owned units and provide a complete array of replacement components.

Medium Voltage

Richards designs, tests, and manufactures medium voltage power cable accessories for use through 35kV. Our facility utilizes advanced injection molding processes and a state-of-the-art high voltage test lab to make a product that is both cost-competitive and reliable. In addition to "standard" products, our selection includes a number of innovative solutions that were designed to solve specific industry issues.

Natural Gas

Richards Manufacturing Company supplies natural gas utilities with a wide variety of Meter Connections and Accessories, Manifold Assemblies, and Prefabricated Meter Assemblies.

Electronic Technology, Inc. (ETI)

ETI is our sister company with extensive engineering and manufacturing capabilities. ETI's products include Microprocessor Network Protector Relays (MNPR®), Microprocessor Capacitor Bank Controls, and power line carrier communication equipment. More than 20 major utilities worldwide depend on ETI's MNPR® to automate their underground networks.

ETI also designs custom solutions for automating entire underground network distribution systems. These custom solutions incorporate information from sensors and MNPR® relays, and provide a means of transmitting, reporting, storing and displaying that data.

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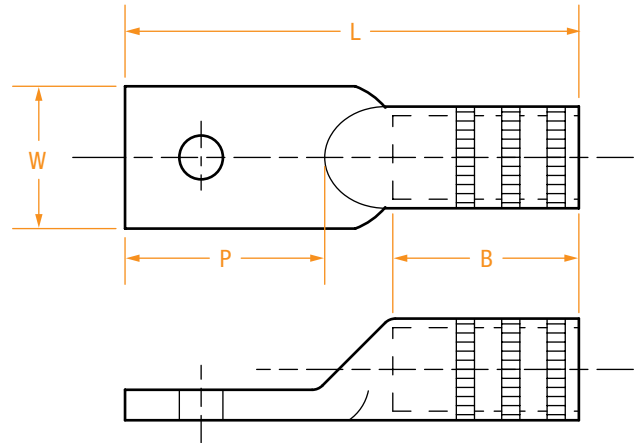
Aluminum Compression Lugs



Aluminum Compression Lugs

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Pin Terminals	APT Series	13
Four-Hole Aluminum NEMA Lugs	AL-4N Series	14

- 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.



ALUMINUM LUGS

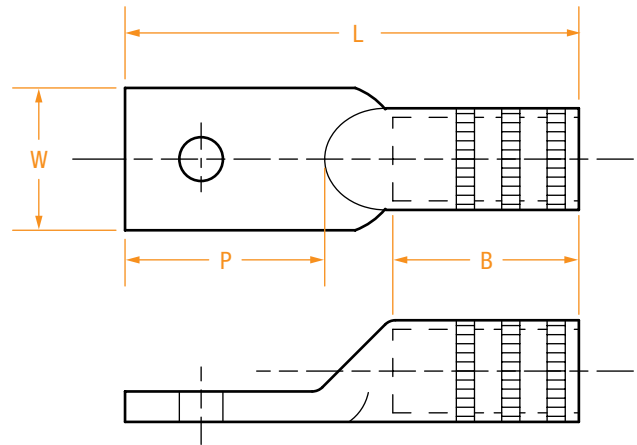
PART NUMBER*	WIRE SIZE	# OF HOLES	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
					B	L	P	W
SAL3	#6	1	1/4	5/16, 346, TP	3/4	1-3/4	5/8	5/8
SAL5	#4	1	5/16	TB, 375	7/8	2-3/16	13/16	13/16
SAL7	#2	1	3/8	TQ, 348, 1/2	1-1/8	2-1/2	7/8	7/8
SAL8	#1	1	3/8	TQ, 348, 1/2	15/16	2-9/16	1-1/8	3/4
SAL9	1/0	1	3/8	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
SAL20	600	1	5/8	115H, 473, 1-5/16	2	5-5/16	1-13/16	2

(continued)

PART NUMBER*	WIRE SIZE	# OF HOLES	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
					B	L	P	W
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).

- 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.



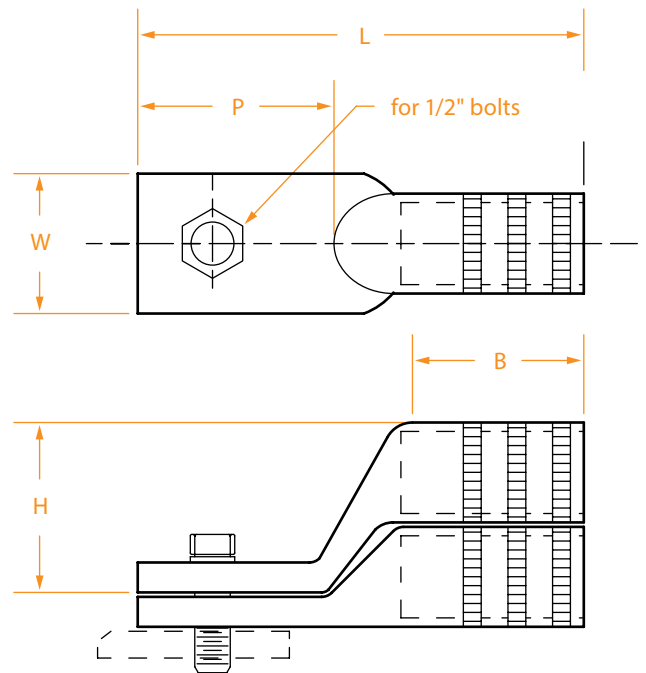
PART NUMBER*	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
				B	L	P	W
AL3-1/4	#6	1/4	5/16, 346, TP	13/16	2-5/32	7/8	9/16
AL5-1/4	#4	1/4	TB, 375	1	2-1/2	23/32	21/32
AL7-1/4	#2	1/4	TQ, 348, 1/2	1	2-1/2	23/32	21/32
AL9-3/8	1/0	3/8	TU, BG, 5/8	1-1/4	3-3/16	1-1/4	7/8
AL9	1/0	1/2	TU, BG, 5/8	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
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

(continued)

PART NUMBER*	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
				B	L	P	W
AL24-5/8	800	5/8	140H, 474, 1-1/2	3-3/8	6-5/8	1-7/8	1-13/16
AL28	1000	1/2	150H, 725, 1-3/4	4-5/8	7-7/8	1-7/8	2-9/16
AL28-5/8	1000	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).

- Made of high-conductivity, tin plated aluminum.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Reduces die inventory.
- Provided with color-coded PVC cap for easy conductor size identification.
- Marked with conductor size and die information.



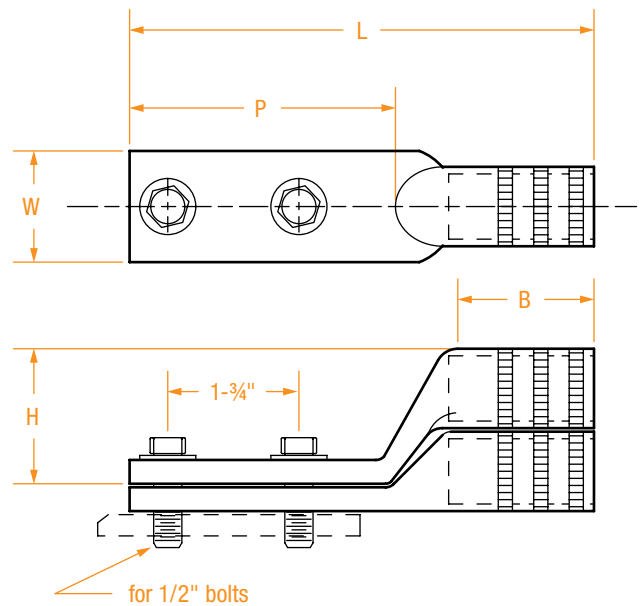
ALUMINUM LUGS

PART NUMBER		WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
Straight Lug	Stacking Lug			B	H*	L	P	W
ALCD2	ASLCD2	#8	687, 52, BG, TU, 243, 5/8, 8A, CSA 22	1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD3	ASLCD3	#6		1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD5	ASLCD5	#4		1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD7	ASLCD7	#2		1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD8	ASLCD8	#1		1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD9	ASLCD9	1/0		1-3/8	1-1/2	3-1/8	1-5/16	7/8
ALCD10	ASLCD10	2/0	249, TX, 76, 658, 840, 324, 11A, CSA 24	1-7/16	1-3/4	3-1/4	1-3/8	1-1/4
ALCD11	ASLCD11	3/0		1-1/2	1-3/4	3-3/8	1-3/8	1-1/4
ALCD12	ASLCD12	4/0		1-1/2	1-3/4	3-3/8	1-3/8	1-1/4
ALCD13	ASLCD13	250		1-1/2	1-3/4	3-3/8	1-3/8	1-1/4
ALCD14		300	299, 96, 655, 321, 316, 1-1/8	1-5/8	–	3-5/8	1-3/8	1-1/4
ALCD15		350		1-5/8	–	3-5/8	1-3/8	1-1/4
ALCD16		400	300, 317, 1-5/16, 426	1-5/8	–	3-5/8	1-3/8	1-1/4
ALCD18		500		2-1/8	–	3-5/8	1-1/4	1-5/16

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

* For stacking lugs only.

- 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
AL28-2N-W	ASL28-2N-W	1000	161, 302, 725, 1-3/4	4-11/16	3-1/4	9-1/2	3-5/8	2-9/16
AL28-2N	ASL28-2N	1000	161, 302, 725, 1-3/4	4-5/8	3-1/4	9-1/2	3-5/8	1-3/4
AL29-2N	ASL29-2N	1250	1-7/8, 727	4-5/8	–	9-5/8	3-5/8	1-3/4
AL30-2N	ASL30-2N	1500	478	5-9/16	–	10-7/8	3-5/8	3-3/16

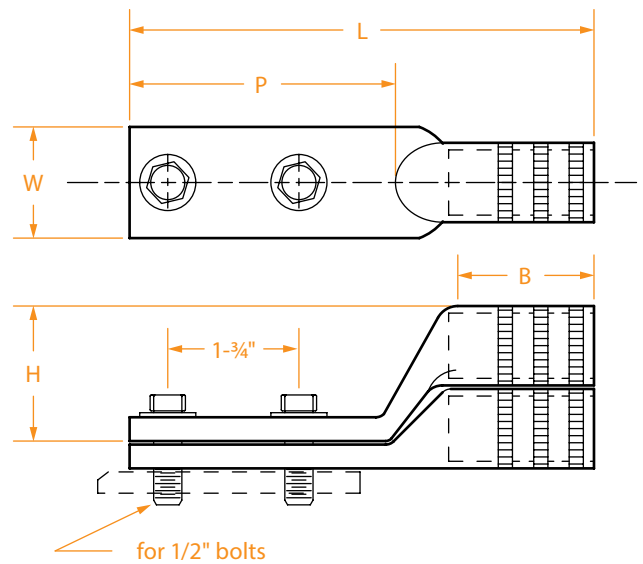
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STRAIGHT LUG PART NUMBER*	STACKING LUG PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	H**	L	P	W
AL31-2N	ASL31-2N	1750	204, 729, 40AH	5-1/2	–	–	3-5/8	3-3/16
AL32-2N	ASL32-2N	2000	479	6-1/16	–	11-15/16	3-5/8	3-1/2

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

** For stacking lugs only.

- 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.

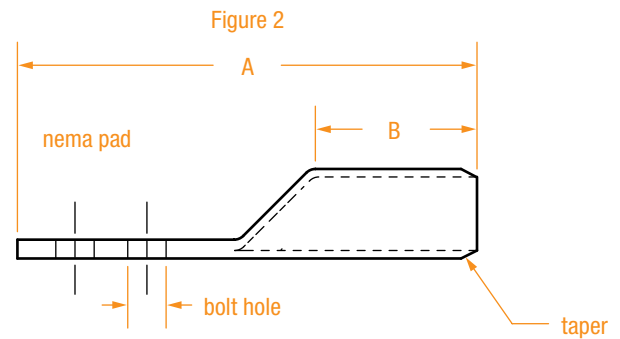
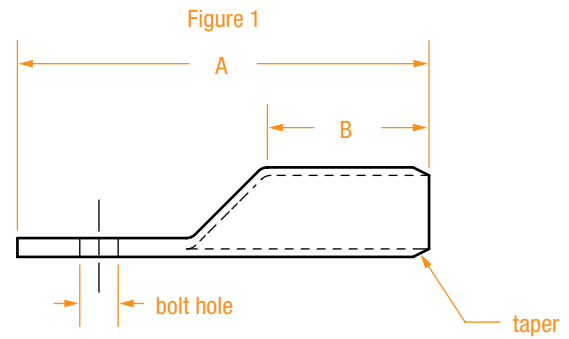


STRAIGHT LUG PART NUMBER*	STACKING LUG PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	H**	L	P	W
ALCD1-2N	ASLCD1-2N	#8	TU, 52, BG, 687, 243, 5/8, 8A	1-1/2	1-1/2	5-1/8	3-1/16	1-1/4
ALCD3-2N	ASLCD3-2N	#6		1-1/2	1-1/2	5-1/8	3-1/16	1-1/4
ALCD5-2N	ASLCD5-2N	#4		1-7/8	1-1/2	5-5/8	3-1/16	1-1/4
ALCD7-2N	ASLCD7-2N	#2		1-7/8	1-1/2	5-5/8	3-1/16	1-1/4
ALCD8-2N	ASLCD8-2N	#2 & #1		1-7/8	1-1/2	5-5/8	3-1/16	1-1/4
ALCD9-2N	ASLCD9-2N	1/0		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		2	1-3/4	6-5/16	3-1/16	1-1/4
ALCD12-2N	ASLCD12-2N	4/0		2	1-3/4	6-5/16	3-1/16	1-1/4
ALCD13-2N	ASLCD13-2N	250		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		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		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		3-3/8	–	7-1/8	3-1/16	1-5/8
ALCD28-2N	ASLCD28-2N	1000		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.

- 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*	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
TAL14	1	300	251, 470, 1.00, 12A, 96	1-13/32	9/16	4	2-1/4
TAL14-2N	2	300	251, 470, 1.00, 12A, 96	1-13/32	9/16	6-9/16	2-1/4
TAL15	1	350	299, 321, 1-1/8, 13A, 96	1-9/16	9/16	4-1/4	2-1/4
TAL15-2N	2	350	299, 321, 1-1/8, 13A, 96	1-9/16	9/16	6-9/16	2-1/4

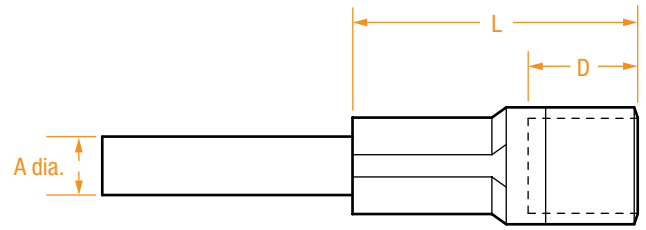
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PART NUMBER*	FIGURE	WIRE SIZE	INSTALLING DIES	PAD WIDTH	BOLT HOLE	DIMENSIONS IN INCHES	
						A	B
TAL16-2N	2	400	472, 523, 1-1/8, 14A, 106	1-21/32	9/16	6-7/8	2-1/2
TAL18-2N	2	500	300, 317, 1-5/16, 15A, 106	1-27/32	9/16	7-5/16	3
TAL20-2N	2	600	473, 525, 1-5/16, 125	2	9/16	7-1/2	3
TAL23-2N	2	750	301, 527, 1-1/2, 140	2-3/16	9/16	8-1/4	3-3/8
TAL24-2N	2	800	474, 725, 1-5/8, 140	2-9/32	9/16	8-1/4	3-3/8
TAL28-2N	2	1000	302, 292, 1-3/4, 150	2-17/32	9/16	9-5/8	4-5/8
TAL30-2N	2	1500	478, 189	3-3/32	9/16	10-13/16	5-1/2
TAL32-2N	2	2000	479, 225	3-19/32	9/16	11-7/8	6

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

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

- 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.

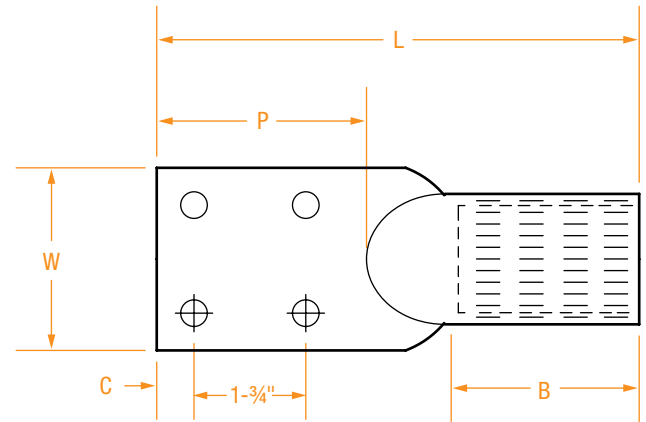


PART NUMBER	ALUMINUM CABLE SIZE	DIE INFORMATION	PIN DIAMETER A	DIMENSIONS IN INCHES	
				L	D
APT7	#2	5/8, 296	0.250	3.25	1.78
APT9	1/0	5/8, 296	0.250	3.25	1.78
APT10	2/0	324, 840	0.312	4.22	2.28
APT12	4/0	324, 840	0.375	4.22	2.28
APT15	350	1-1/8, 299	0.460	5.25	3.00
APT18	500	140H, 301	0.750	6.30	3.41
APT23	750	140H, 301	0.750	6.30	3.41
APT28	1000	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".

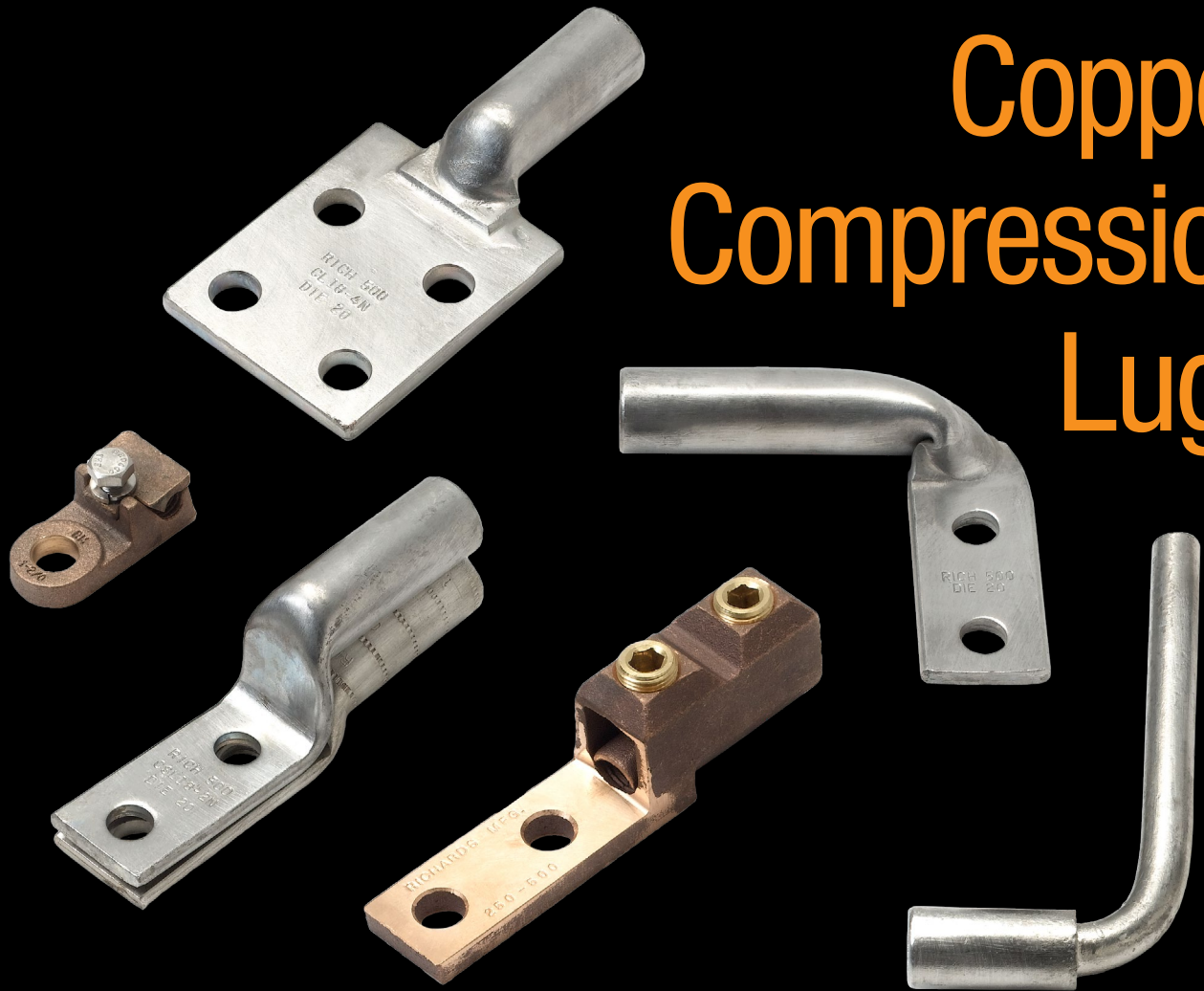
- Made of high-conductivity aluminum – tin plated.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.
- In accordance with all NEMA standards.



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	1000	161, 302, 725, 1-3/4	5-5/8	5/8	10-3/8	3	3
AL28CR-4N	1000	161, 302, 725, 1-3/4	6	5/8	11-1/4	3	3
AL29-4N	1250	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




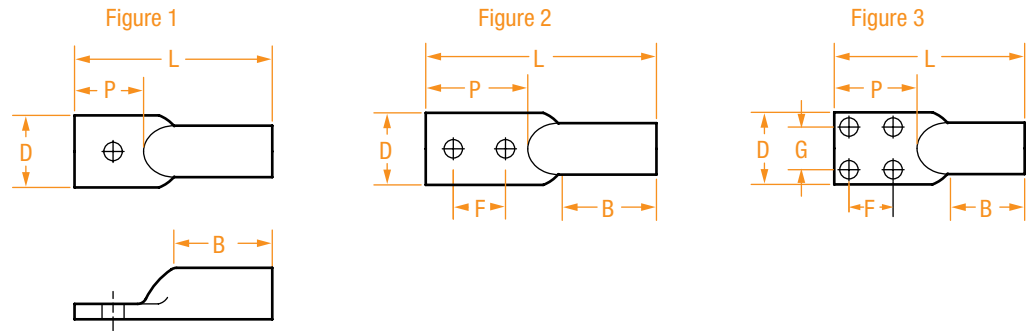
Copper Compression Lugs

	Series	Page
Short-Barrel Copper Lugs	SCL Series	17
Short-Barrel Copper Lugs	SCL Series (continued)	18
One-Hole Copper Lugs	CL Series	19
One-Hole Copper Lugs	CL Series (continued)	20
Straight & Stacking Two-Hole Copper NEMA Lugs	CL-2N & CSL-2N Series	21
Straight & Stacking Two-Hole Copper NEMA Lugs	CL-2N & CSL-2N Series (continued)	22
Four-Hole Copper Lugs	CL-4N Series	23
Heavy-Duty Copper Lugs	HDCL Series	24
Tapered Copper Lugs	TCL Series	25
Tapered Copper Lugs	TCL Series (continued)	26
One-Hole Peephole Copper Lugs	CL-P Series	27
One-Hole Peephole Copper Lugs	CL-P Series (continued)	28
Two- & Four-Hole Peephole Copper NEMA Lugs	CL-N-P Series	29
Mechanical Copper Lugs	ML Series	30
Angled Copper Lugs	CL-2N-90 Series	31
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Copper Pin Terminals.....CPT Series..... 33
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COPPER LUGS

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



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
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	–


COPPER LUGS

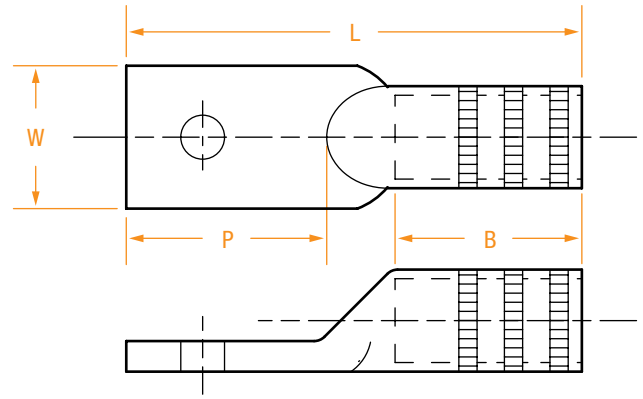
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PART NUMBER	FIGURE	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
					L	B	P	D	F & G
SCL11-2N	2	3/0	1/2	5/8, 14, TU, 50	4-19/32	1-1/4	3	29/32	1-3/4
SCL12-3/8	1	4/0	3/8	5/8, 15, TW-TY, 54	2-1/2	1-1/4	7/8	1	–
SCL12	1	4/0	1/2	5/8, 15, TW-TY, 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.

COPPER LUGS

- 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
CL11-5/16	3/0	5/16	5/8, 14, TU, 50	1-1/2	2-59/64	57/64	29/32

COPPER LUGS


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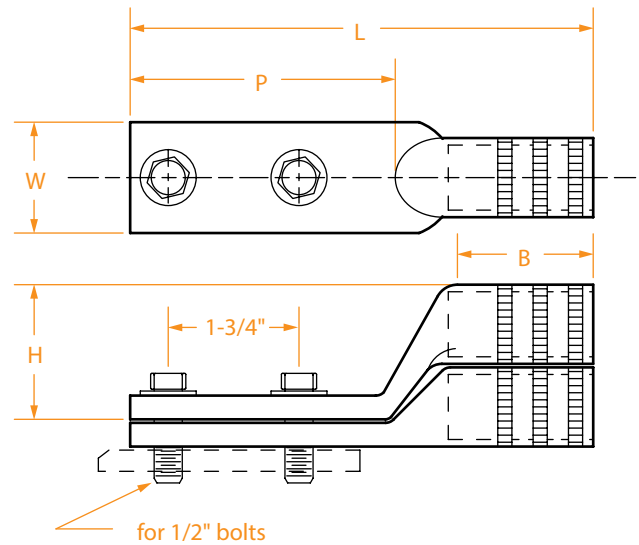
PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES			
				B	L	P	W
CL11-3/8	3/0	3/8	5/8, 14, TU, 50	1-1/2	3-9/64	1-7/64	29/32
CL11	3/0	1/2	5/8, 14, TU, 50	1-1/2	3-9/64	1-7/64	29/32
CL12-5/16	4/0	5/16	5/8-1, 15, TW-TY, 54	1-9/16	3-1/64	57/64	1
CL12-3/8	4/0	3/8	5/8-1, 15, TW-TY, 54	1-9/16	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

CL-2N & CSL-2N Series

- 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 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
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
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

COPPER LUGS


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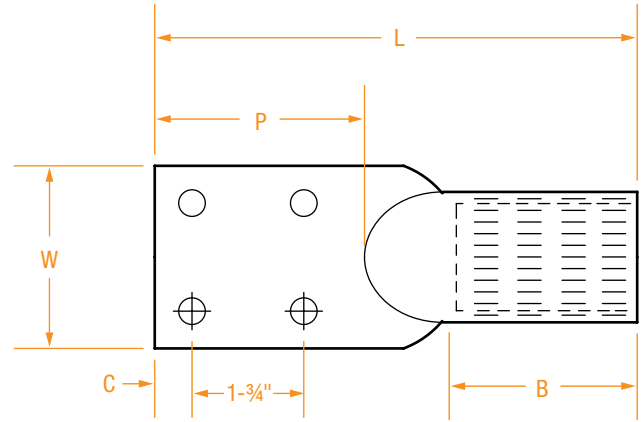
STRAIGHT PART NUMBER	STACKING PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
					B	H*	L	P	W
CL14-2N-3/8		300	3/8	781, 17, TV, 66	2	–	5-3/4	3	1-7/32
CL14-2N	CSL14-2N	300	1/2	781, 17, TV, 66	2	1-13/16	5-3/4	3	1-7/32
CL15-2N-3/8		350	3/8	840, 18, TX, 71	2	–	5-3/4	3	1-5/16
CL15-2N	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	6-1/16	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.

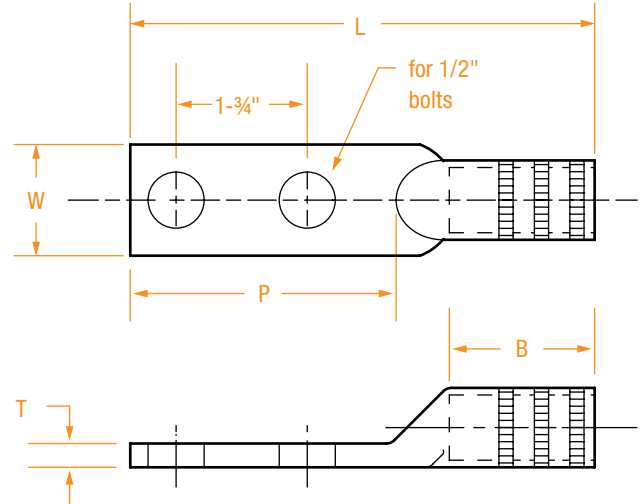
- Made of seamless copper tubing.
- Tin-plated to resist corrosion.
- Marked with conductor sizes and die information.
- Meets all NEMA standards.
-  UL listed.



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.

- 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.




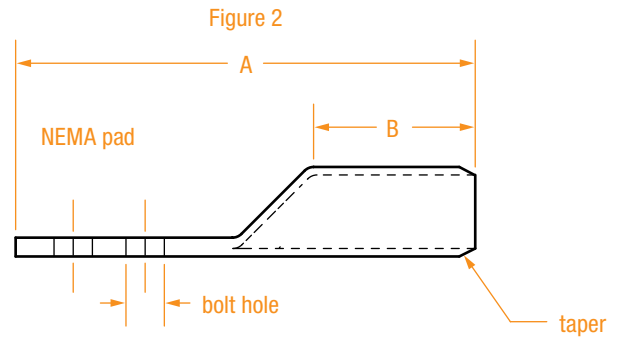
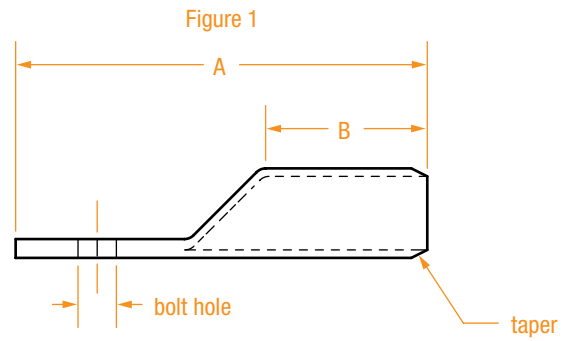
COPPER LUGS

PART NUMBER*	WIRE 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".

- 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.




PART NUMBER*	FIGURE	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				L	B	PAD WIDTH	PAD THICKNESS	BOLT HOLE
TCL5	1	#4	5/16, 8, TP, 29	2-3/16	1-1/4	5/8	3/32	7/16
TCL7	1	#2	3/8, 10, TL-TN, 33	2-5/16	1-3/8	5/8	7/64	7/16
TCL8	1	#1	3/8, 11, TB, 37	2-1/2	1-3/8	11/16	7/64	7/16
TCL9	1	1/0	1/2, 12, TQ, 42	2-5/8	1-3/8	13/16	1/8	7/16
TCL9-2N	2	1/0	1/2, 12, TQ, 42	4-7/8	1-3/8	13/16	1/8	9/16
TCL10	1	2/0	9/16, 13, TS, 45	3	1-1/2	7/8	1/8	9/16
TCL10-2N	2	2/0	9/16, 13, TS, 45	5	1-1/2	7/8	1/8	9/16
TCL11	1	3/0	5/8, 14, TU, 50	3-1/8	1-1/2	15/16	1/8	9/16
TCL11-2N	2	3/0	5/8, 14, TU, 50	5-1/8	1-1/2	15/16	1/8	9/16
TCL12	1	4/0	5/8-1, 15, TW-TY	3-5/16	1-5/8	1	9/64	9/16
TCL12-2N	2	4/0	5/8-1, 15, TW-TY	5-1/4	1-5/8	1	9/64	9/16
TCL13	1	250	11/16, 16, TR, 60	3-3/8	1-5/8	1-1/8	5/32	9/16
TCL13-2N	2	250	11/16, 16, TR, 60	5-5/16	1-5/8	1-1/8	5/32	9/16
TCL14	1	300	781, 17, TV, 66	3-3/4	2	1-3/16	5/32	9/16
TCL14-2N	2	300	781, 17, TV, 66	5-3/4	2	1-3/16	5/32	9/16
TCL15	1	350	840, 18, TX, 71	3-13/16	2	1-5/16	15/16	9/16

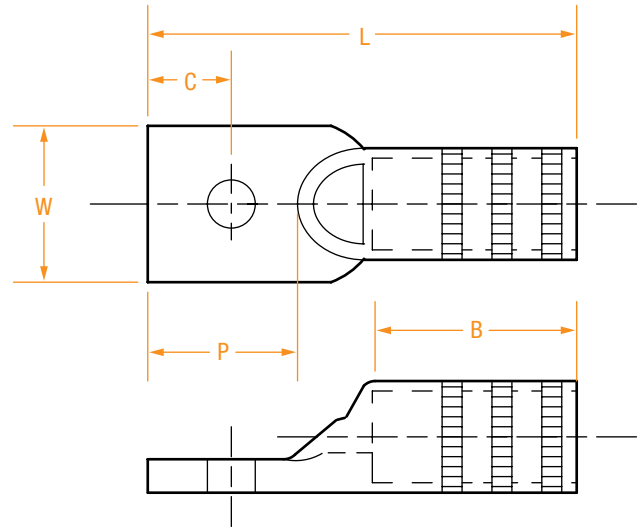
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PART NUMBER*	FIGURE	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				L	B	PAD WIDTH	PAD THICKNESS	BOLT HOLE
TCL15-2N	2	350	840, 18, TX, 71	5-13/16	2	1-5/16	15/16	9/16
TCL16-2N	2	400	15/16, 19, 76	6	2-1/8	1-7/16	3/16	9/16
TCL18-2N	2	500	1, 20,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

- 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 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
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


COPPER LUGS

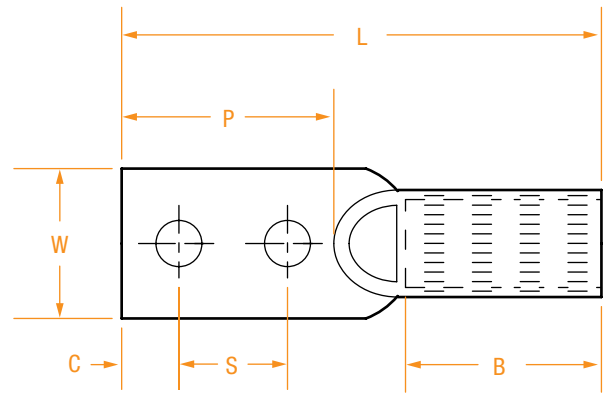
(continued)

PART NUMBER	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES				
				B	C	L	P	W
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.

COPPER LUGS

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



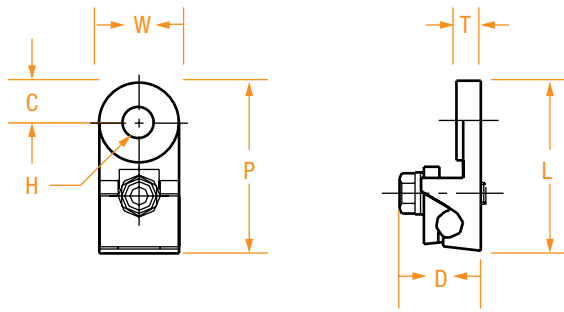
PART NUMBER*	WIRE SIZE	BOLT SIZE	INSTALLING DIES	DIMENSIONS IN INCHES					
				B	C	L	P	S	W
CL10-2N-P	2/0	1/2	9/16, 13, TS, 45	15/16	5/8	4-15/32	3	1-3/4	13/16
CL11-2N-P	3/0	1/2	5/8, 14, TU, 50	1	5/8	4-5/8	3	1-3/4	29/32
CL12-2N-P	4/0	1/2	5/8-1, 15, TW-TY, 54	1	5/8	4-11/16	3	1-3/4	1
CL13-2N-P	250	1/2	11/16, 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

COPPER LUGS

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

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

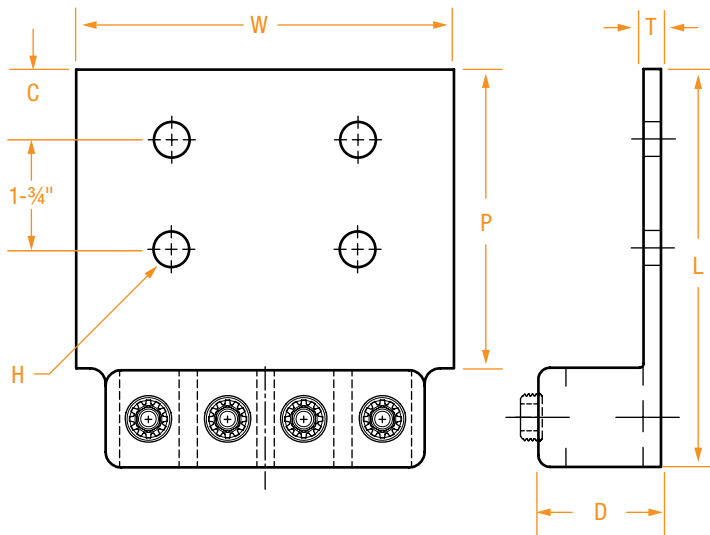
- Made from high-conductivity copper alloy.
- Designed to accept a range of conductor sizes.



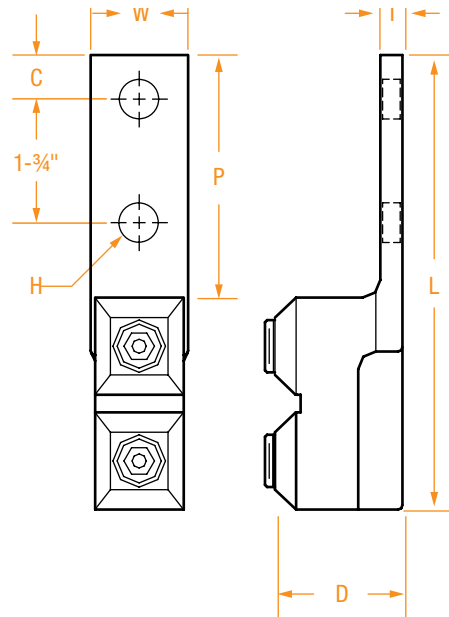
ML8-10



B4CC-4N



B4CC-4N



ML13-18

COPPER LUGS

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.

- 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.

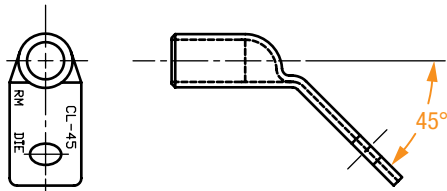


Figure 1
45° Bend
Add "-45" to part #

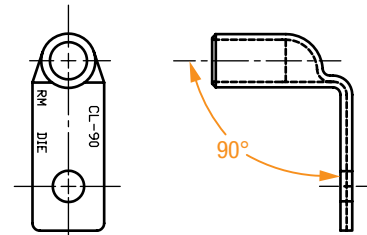


Figure 2
90° Bend
Add "-90" to part #

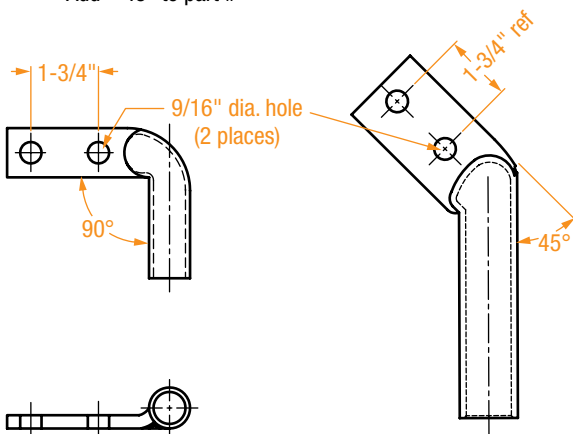


Figure 3
90° Left Twist
Add "-90L" to part #

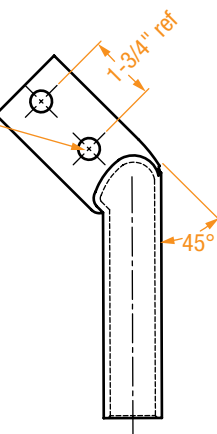


Figure 4
45° Left Twist
Add "-45L" to part #

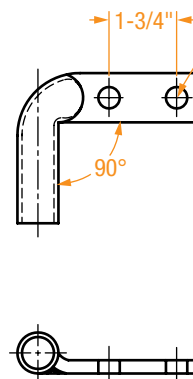


Figure 5
90° Right Twist
Add "-90R" to part #

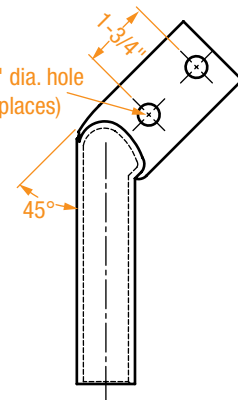


Figure 6
45° Right Twist
Add "-45R" to part #

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.

COPPER LUGS

- 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.

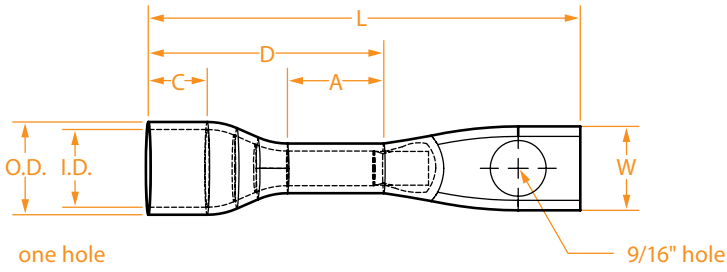


Figure 1

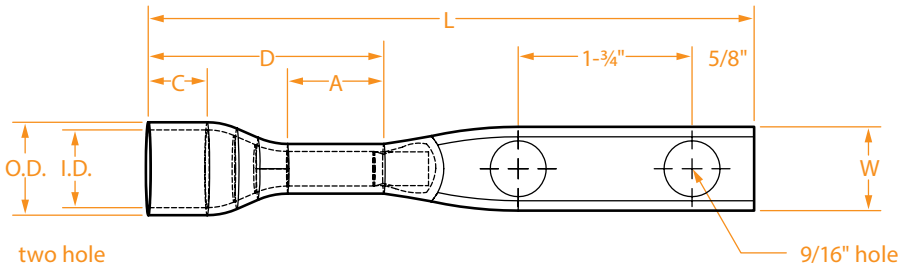
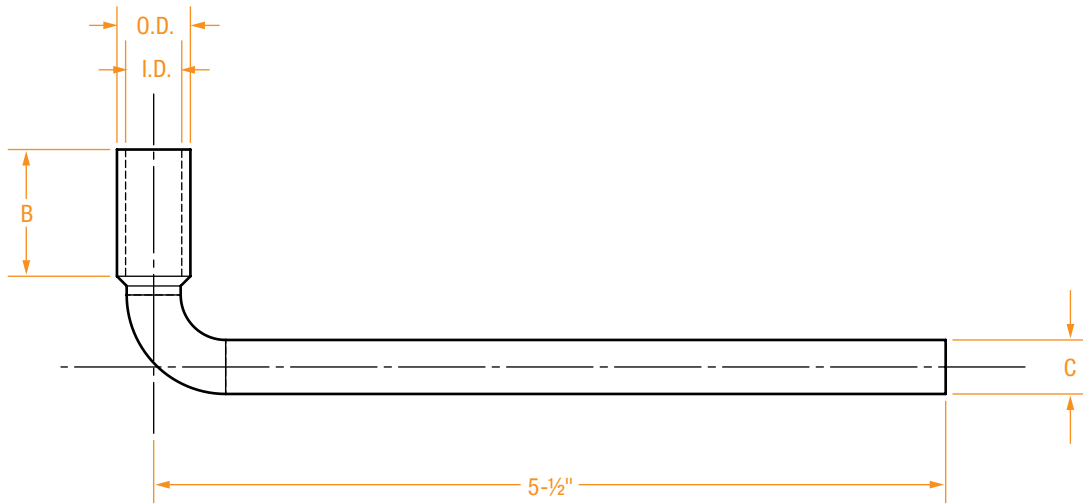
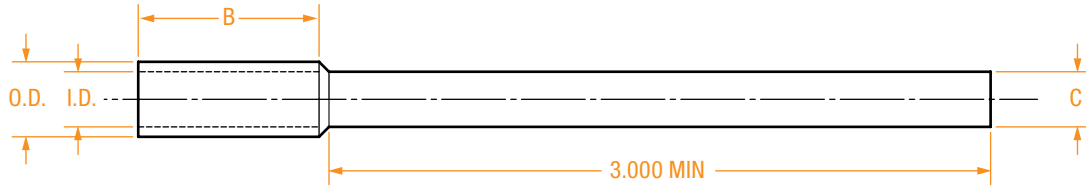


Figure 2

COPPER LUGS

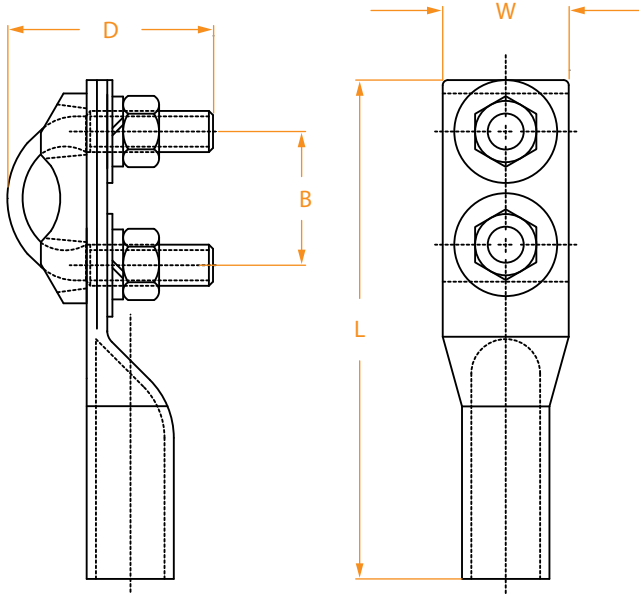
PART NUMBER	FIG	CONDUCTOR	APPROXIMATE DIMENSIONS IN INCHES							DIE INDEX
			O.D.	I.D.	A	C	D	L	w	
CL5-1-66PS	1	#4 STR	0.72	.625	1.25	.625	2.125	3.5	.875	½, 12
CL5-2N-066	2	#4 STR	.72	.55	1.625	.625	2.50	6	.875	½, 12
CL7-2N-066	2	#2 STR	.95	.80	1.25	.80	2.50	6-1/8	.875	163

- 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

- 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	2-3/8	1-3/8	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

COPPER LUGS

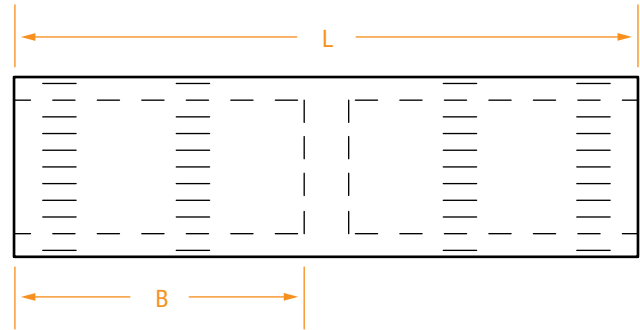
Aluminum Compression Connectors



Aluminum Compression Connectors

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Aluminum Splices.....	ALC Series.....	38
Aluminum Splices – Common Die	ALCCD Series	39
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- Made of high-conductivity aluminum.
- Accepts both aluminum and copper conductors.
- Filled with an oxide-inhibiting compound.
- Marked with conductor size and die information.

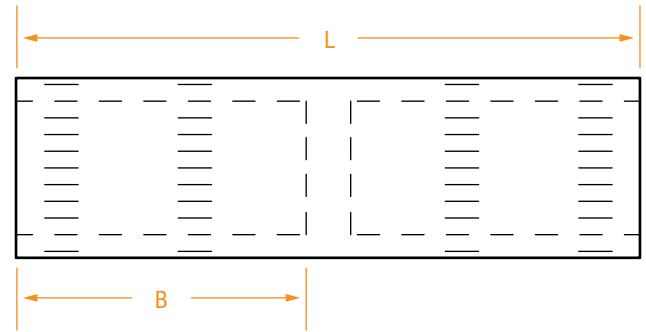


PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
SALC3	#6	TP, 29, 346, 161, 5/16	3/4	1-5/8
SALC5	#4	TB, 37, 375, 162	7/8	1-7/8
SALC7	#2	TQ, 45, 348, 6A, 1/2, 163	15/16	2
SALC8	#1	TQ, 45, 348, 6A, 1/2, 163	15/16	2
SALC9	1/0	TU, BG, 8A, 5/8, 52, 243	1	2-1/8
SALC10	2/0	TWTY, 297, 9A, 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).

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

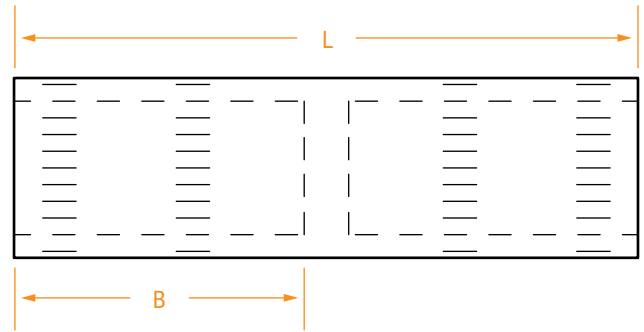


PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
ALC5	#4	TB, 37, 375, 162	1-7/16	3-1/8
ALC7	#2	TQ, 45, 348, 6A, 1/2	1-5/8	3-13/32
ALC8	#1	TQ, 45, 348, 6A, 1/2	1-5/8	3-13/32
ALC9	1/0	TU, BG, 8A, 5/8, 52, 243	1-7/16	3-11/16
ALC10	2/0	TWTY, 297, 9A, 5/8-1, 58	1-3/4	3-11/16
ALC11	3/0	TV, 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).

- 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.

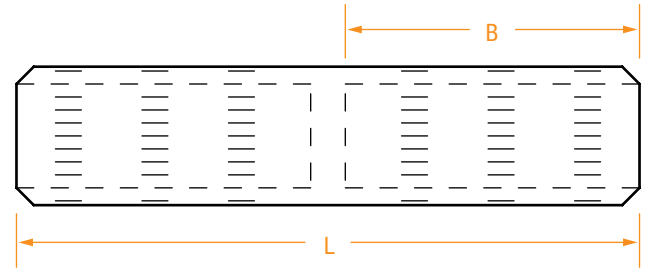


PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
ALCCD5	#4	8A, TU, 5/8, 243, BG, 52	1-7/16	3
ALCCD7	#2		1-7/16	3
ALCCD8	#1		1-7/16	3
ALCCD9	1/0		1-7/16	3
ALCCD10	2/0	249, 840, TX, 11A, 76	1-7/8	4
ALCCD11	3/0		1-7/8	4
ALCCD12	4/0		1-7/8	4
ALCCD13	250		1-7/8	4
ALCCD14	300	299, 1-1/8,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

- 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.

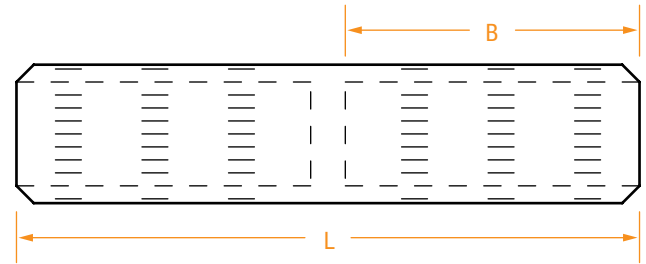


PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
OATC7	#2	TQ, 45, 348, 6A	1-9/32	2-11/16
OATC9	1/0	TU, 8A, 52, 243	1-7/16	3
OATC10	2/0	TWTY, 245, 9A, 58	1-7/16	3-1/16
OATC11	3/0	TV, 10A, 66, 247	1-7/16	3
OATC12	4/0	TX, 298, 11A, 71	1-3/4	3-21/32
OATC13	250	TX, 11A, 76, 249	1-3/4	3-21/32
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).

- 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.

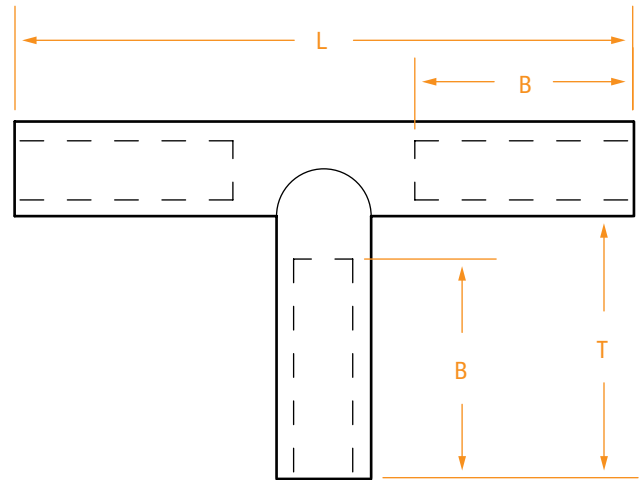


PART NUMBER*	WIRE SIZE	INSTALLING DIES	DIMENSIONS IN INCHES	
			B	L
OATCCD5	#4	TU, 8A, 52, 243, 296, 5/8	1-7/16	3
OATCCD7	#2		1-7/16	3
OATC9	1/0		1-7/16	3
OATCCD10	2/0	11A, 76, 249, 840, 298	1-7/8	4
OATCCD11	3/0		1-7/8	4
OATC12	4/0		1-7/8	4
OATC13	250		1-7/8	4
OATCCD14	300		96, 299, 13A, 1-1/8, 321,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

- 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



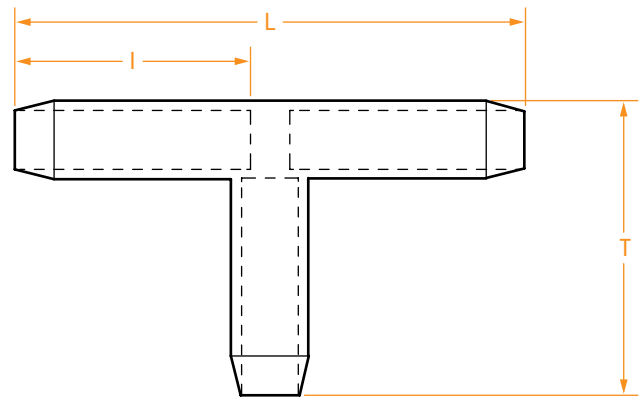
PART NUMBER*	WIRE SIZE		DIMENSIONS IN INCHES		
	RUN	TAP	L	B	T
ALT7	#2	#2	4-1/4	2	2-1/2
ALT9-7	1/0	2	5-1/2	2-1/4	2-1/2
ALT9	1/0	1/0	5-1/2	2-1/4	2-1/2
ALT10-9	2/0	1/0	6	2-1/4	2-1/2
ALT10	2/0	2/0	6	2-1/4	2-1/2
ALT11	3/0	3/0	6-5/8	2-5/8	3
ALT12-10	4/0	2/0	6-5/8	2-5/8	3
ALT12	4/0	4/0	6-5/8	2-5/8	3
ALT13	250	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*	WIRE SIZE		DIMENSIONS IN INCHES		
	RUN	TAP	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).

- 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.



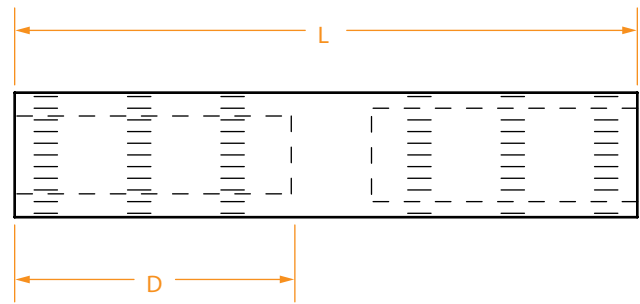
PART NUMBER	WIRE SIZE		DIMENSIONS IN INCHES			INSTALLING DIES
	RUN	TAP	L	I	T	
ALTT7-5	#2	#4	5-1/4	2-9/16	2-21/32	348, 6A, 45, TQ
ALTT7	#2	#2	5-1/4	2-9/16	2-23/32	348, 6A, 45, TQ
ALTT9-7	1/0	#2	5-1/8	2-1/2	2-25/32	243, 52, 8A, TU
ALTT9	1/0	1/0	5-1/8	2-1/2	2-25/32	243, 52, 8A, TU
ALTT10-7	2/0	2	5-3/8	2-5/8	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
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

(continued)

PART NUMBER	WIRE SIZE		DIMENSIONS IN INCHES			INSTALLING DIES
	RUN	TAP	L	I	T	
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.

- 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.



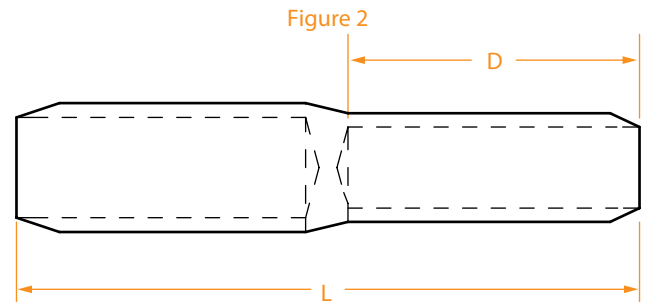
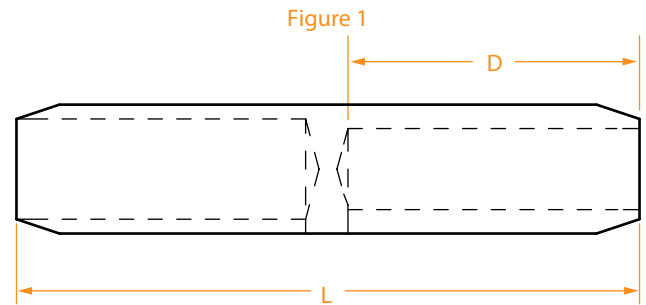
Part numbers should be formatted **ALCRA-B**, where **A** is the conductor code for side A (larger side) and **B** is the conductor code for side B (reduced side).

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

- 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.



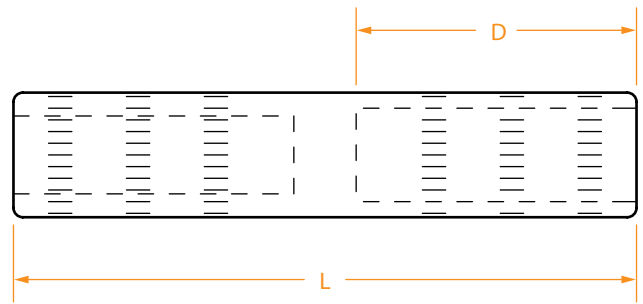
Part numbers should be formatted OATCRA-B, where **A** is the conductor code for side A (larger side) and **B** is the conductor code for side B (reduced side).

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

- 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 numbers should be formatted **ALCRCD**A**-**B****, where **A** is the conductor code for side A (larger side) and **B** is the conductor code for side B (reduced side).

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

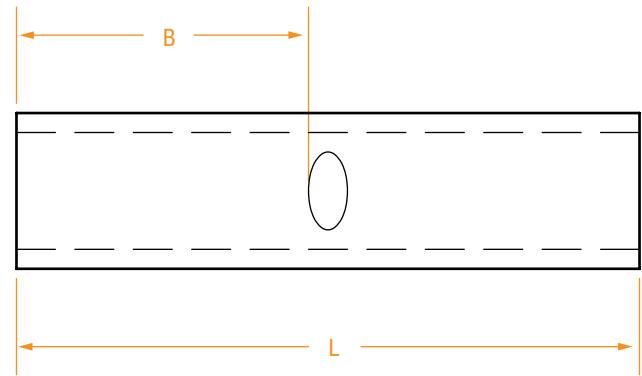
Copper Compression Connectors



Copper Compression Connectors


Copper Compression Connectors	Series	Page
Short Copper Splices	SCC Series	51
Copper Splices	CC Series	52
Tapered Copper Splices	TCC Series	53
Straight Oil-Stop Copper Splices	OCC Series	54
Tapered Oil-Stop Copper Splices	OTCC Series	55
Copper Compression Tees	CCT Series	56
Tapered Copper Compression Tees	TCCT Series	57
Copper Compression Reducers	CCR Series	58
Tapered Copper Compression Reducers	TCCR Series	59
Oil-Stop Copper Compression Reducers	OCCR Series	60
Oil-Stop Tapered Copper Compression Reducers	OTCCR Series	61
Corrugated Copper Reducing Adapters	CRA Series	62

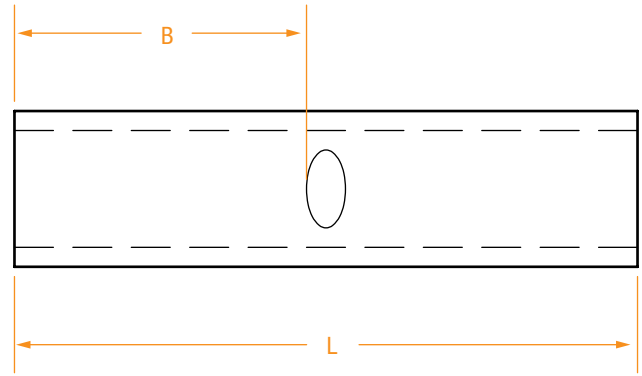
- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Indentation in the center of the connector provides a cable stop to ensure proper installation.
-  UL listed.



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.

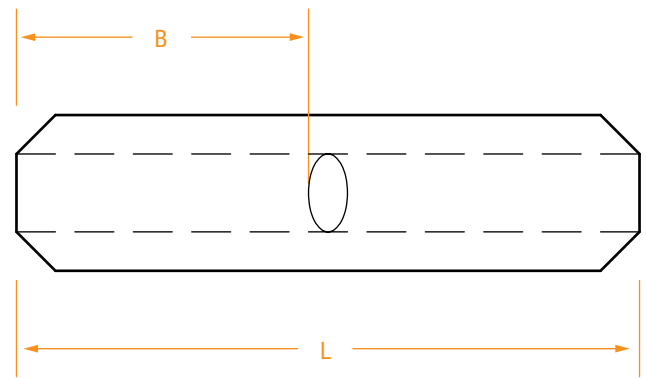
- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Indentation in the center of the connector provides a cable stop to ensure proper installation.
-  UL listed.



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.

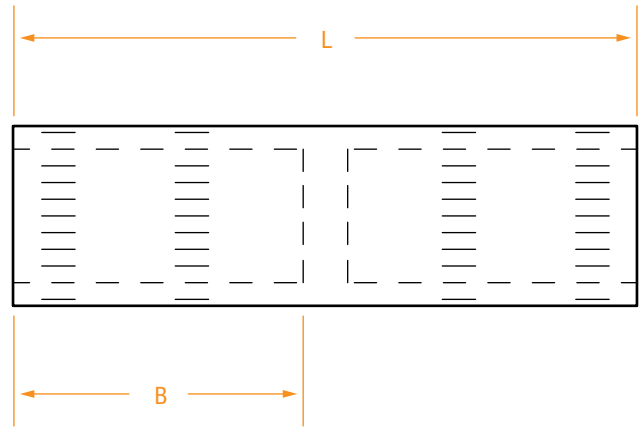
- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Tapered ends for high-voltage use.
- Indentation in the center of the connector provides a cable stop to ensure proper installation.
- 12° taper.
-  UL listed.



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.

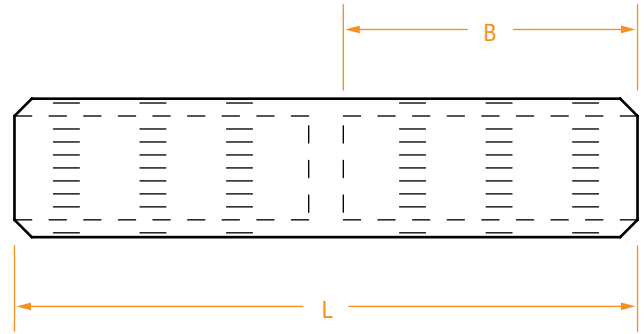
- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Solid copper barriers are brazed in the center to insure an oil-tight seal.
- Long enough for double crimping to add mechanical strength.
-  UL listed.



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.

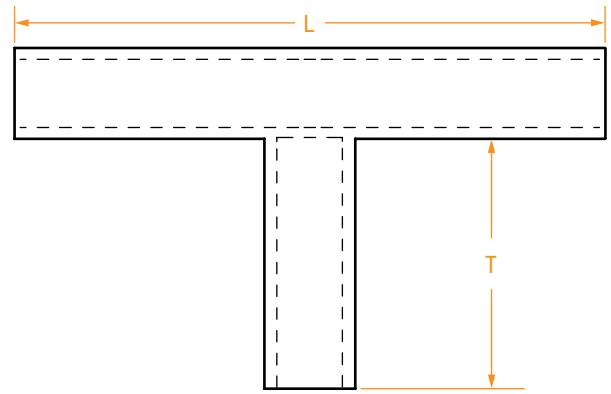
- Made of pure seamless copper tubing.
- Tin-plated to resist corrosion.
- Tapered ends for high-voltage use.
- Solid copper barriers are brazed in the center to insure an oil-tight seal.
- 12° taper.
-  UL listed.



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.

- 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.




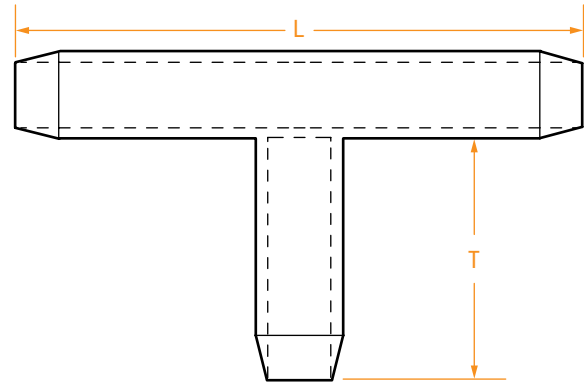
COPPER CONNECTORS

PART NUMBER	WIRE SIZE		DIMENSIONS IN INCHES	
	RUN	TAP	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	WIRE SIZE		DIMENSIONS IN INCHES	
	RUN	TAP	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.

- 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.

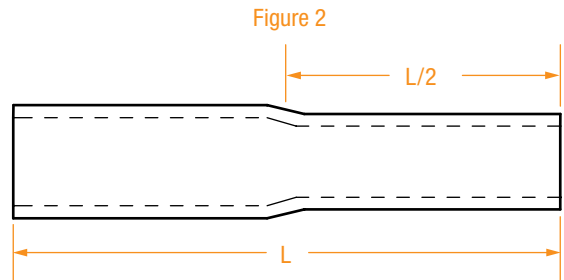
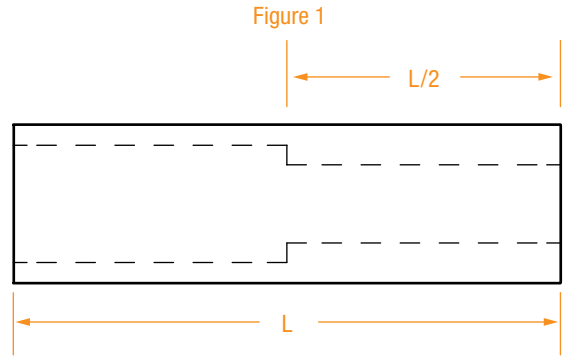


PART NUMBER	WIRE SIZE		DIMENSIONS IN INCHES	
	RUN	TAP	L	T
TCCT9-3	1/0	#6	3-3/4	1-1/2
TCCT9-5	1/0	#4	3-13/16	1-1/2
TCCT9-7	1/0	#2	3-7/8	1-1/2
TCCT9-8	1/0	#1	3-15/16	1-1/2
TCCT9	1/0	1/0	4	1-1/2
TCCT10-3	2/0	#6	3-29/32	1-5/8
TCCT10-5	2/0	#4	3-31/32	1-5/8
TCCT10-7	2/0	#2	4-1/32	1-5/8
TCCT10-8	2/0	#1	4-3/32	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	WIRE SIZE		DIMENSIONS IN INCHES	
	RUN	TAP	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.

- 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.

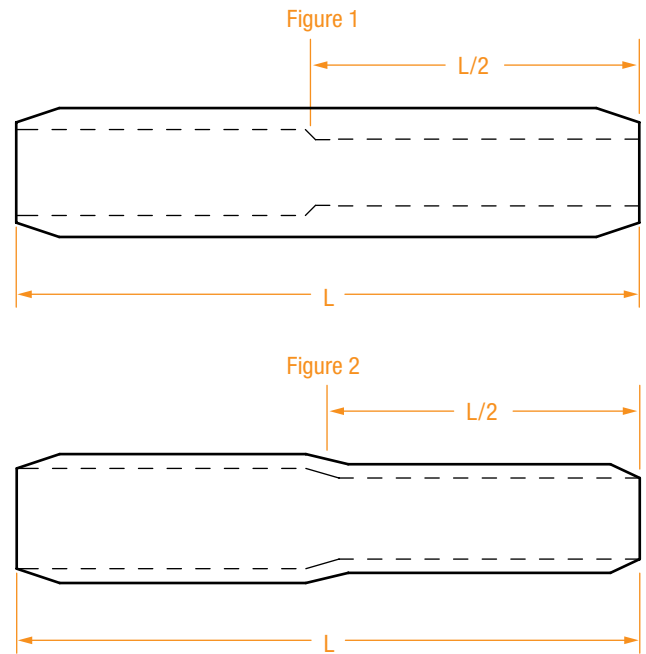


Part numbers should be formatted **CCRA-B**, where **A** is the conductor code for side A (larger side) and **B** is the conductor code for side B (reduced side).

PART NUMBER	WIRE SIZE		DIMENSIONS IN INCHES
	A	B (select from range)	L
CCR3-	#6	#8 - #10	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.

- 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.

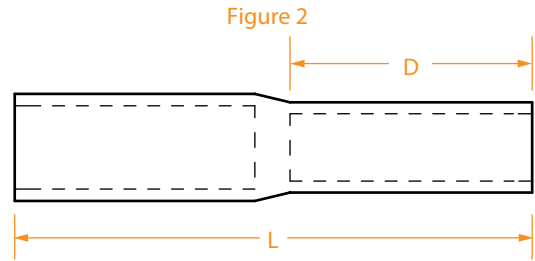
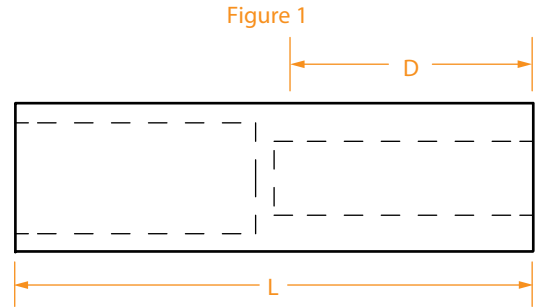


Part numbers should be formatted TCCRA-B, where **A** is the conductor code for side A (larger side) and **B** is the conductor code for side B (reduced side).

PART NUMBER	WIRE SIZE		INSTALLING DIES	DIMENSIONS IN INCHES
	A	B (select from range)		L
TCCR3-	#6	#8 - #10	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	1000 - 4/0	29	8

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

- 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.

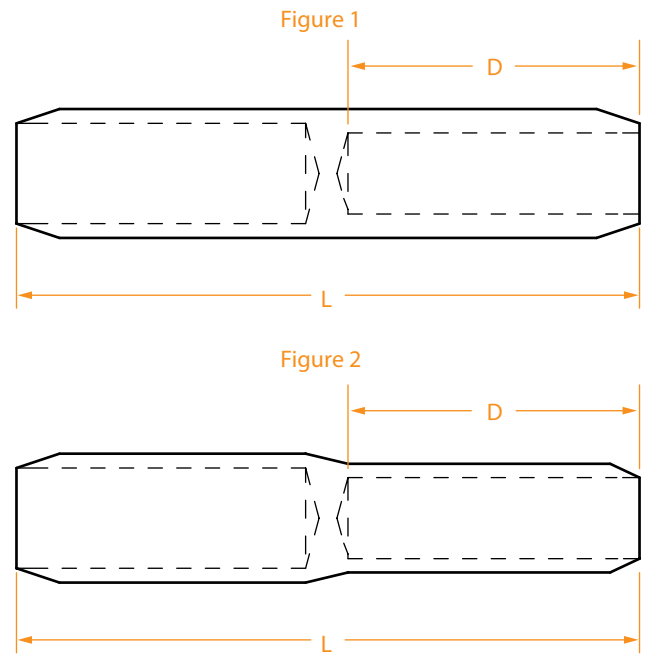


Part numbers should be formatted OCCRA-B, where **A** is the conductor code for side A (larger side) and **B** is the conductor code for side B (reduced side).

PART NUMBER	WIRE SIZE		INSTALLING DIES	DIMENSIONS IN INCHES	
	A	B (select from range)		L	D
OCCR3-	#6	#8 - #10	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	1000 - 4/0	29	8	3-3/4

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

- 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.



Part numbers should be formatted OTCCRA-B, where **A** is the conductor code for side A (larger side) and **B** is the conductor code for side B (reduced side).

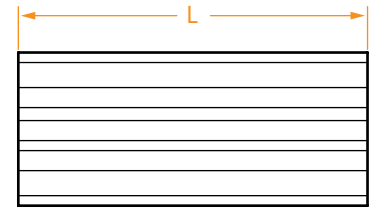
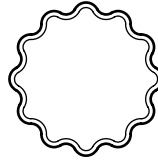
PART NUMBER	WIRE SIZE		INSTALLING DIES	DIMENSIONS IN INCHES	
	A	B (select from range)		L	D
OTCCR3-	#6	#8 - #10	7, TE, 24	2	7/8
OTCCR5-	#4	#6 - #8	5/16, 8, TP, 29, 161	2	7/8
OTCCR7-	#2	#4 - #8	3/8, 10, TL-TN, 162	2	7/8
OTCCR8-	#1	#2 - #8	3/8, 11, TB, 37, 276	2-1/4	1
OTCCR9-	1/0	#1 - #6	1/2, 12, TQ, 42, 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.

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

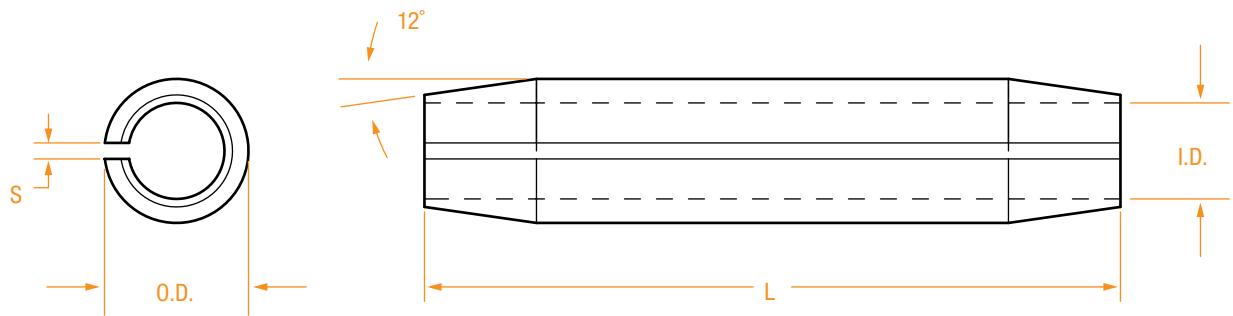
NOTE: Many other sizes available.
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

Split Tinned Connectors



Split Tinned Connectors	Series	Page
Split Tinned Straight Connectors	RSS Series	65
Split Tinned Concentric Reducing Connectors.....	CR Series	66
Split Tinned Branch Connectors – Full Duplex.....	FD Series.....	67
Split Tinned Branch Connectors – Half Duplex.....	HD Series	68
Split Tinned Tee Connectors	ST Series.....	69
Lead Splicing Sleeves.....	LS Series.....	70

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

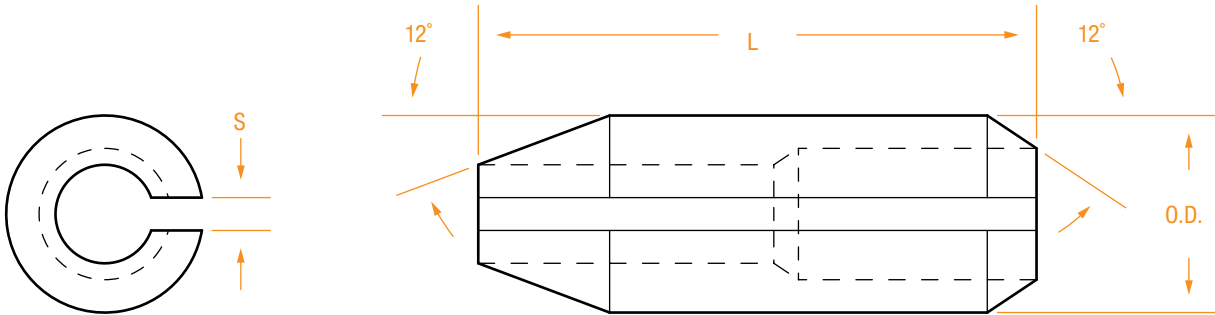


PART NUMBER*	WIRE SIZE	DIMENSIONS IN INCHES			
		L	S	I.D.	O.D.
RSS3	#6	1.5	0.030	0.189	0.251
RSS5	#4	2.0	0.030	0.237	0.315
RSS7	#2	2.0	0.030	0.297	0.395
RSS8	#1	2.0	0.070	0.337	0.449
RSS9	1/0	2.0	0.070	0.378	0.504
RSS10	2/0	2.0	0.070	0.423	0.565
RSS11	3/0	2.0	0.070	0.475	0.635
RSS12	4/0	2.5	0.070	0.533	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.

- Made of pure copper.
- Tin-plated to resist corrosion.
- Fabricated in accordance with EEL 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 numbers should be formatted **CRA-B**, where **A** is the conductor code for side A (larger side) and **B** is the conductor code for side B (reduced side).

PART NUMBER*	WIRE SIZE (SIDE A)	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

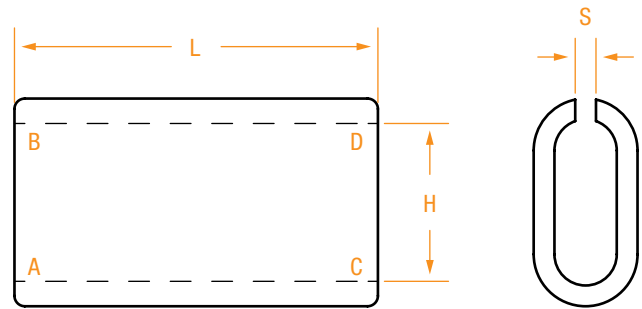
PART NUMBER*	WIRE SIZE (SIDE A)	DIMENSIONS IN INCHES		
		L	S	O.D.
CR18-	500	3.0	0.120	1.102
CR19-	550	3.0	0.175	1.154
CR20-	600	3.5	0.175	1.206
CR21-	650	3.5	0.175	1.260
CR22-	700	3.5	0.175	1.307
CR23-	750	3.5	0.175	1.356
CR24-	800	4.0	0.175	1.400
CR26-	900	4.0	0.220	1.483
CR28-	1,000	4.5	0.220	1.565
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

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

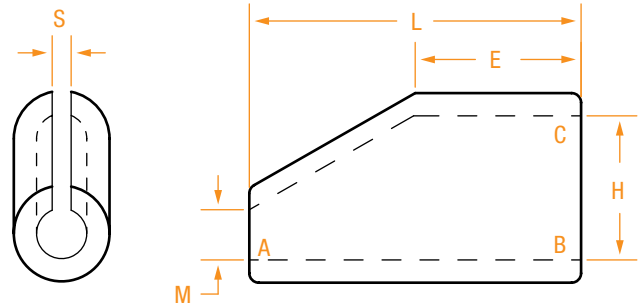


PART NUMBER	WIRE SIZE	DIMENSIONS IN INCHES		
		L	H	S
FD3	#6	1.5	0.378	0.050
FD5	#4	2.0	0.474	0.070
FD6	#3	2.0	0.530	0.070
FD7	#2	2.0	0.594	0.070
FD8	#1	2.0	0.647	0.070
FD9	1/0	2.0	0.756	0.070
FD10	2/0	2.0	0.846	0.070
FD11	3/0	2.0	0.950	0.070
FD12	4/0	2.5	1.066	0.120
FD13	250	2.5	1.162	0.120
FD14	300	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

SPLIT TINNED

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

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

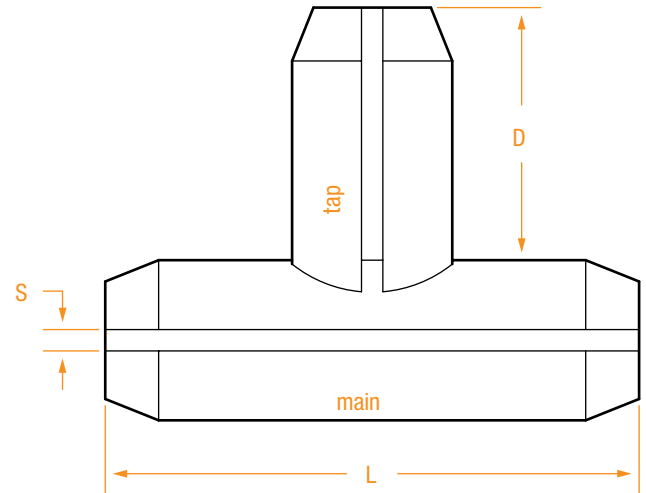


SPLIT TINNED

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.

- 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 EEL 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.

SPLIT TINNED

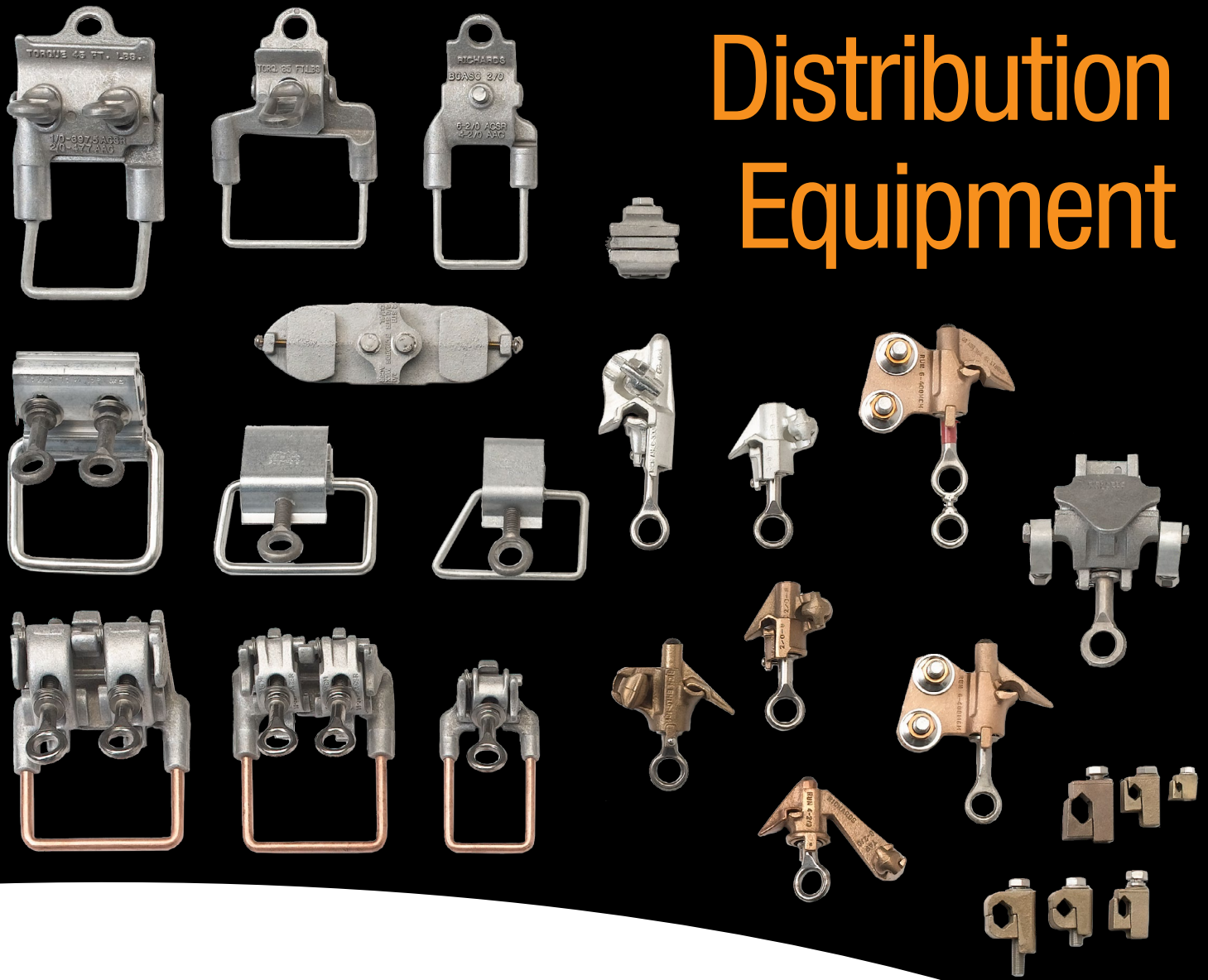
- Used in conjunction with split tinned connectors when splicing PILC cable.
- Bridges lead neutral.
- When ordering, specify length (L), inside diameter (ID) and thickness (T).

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.

SPLIT TINNED

Distribution Equipment

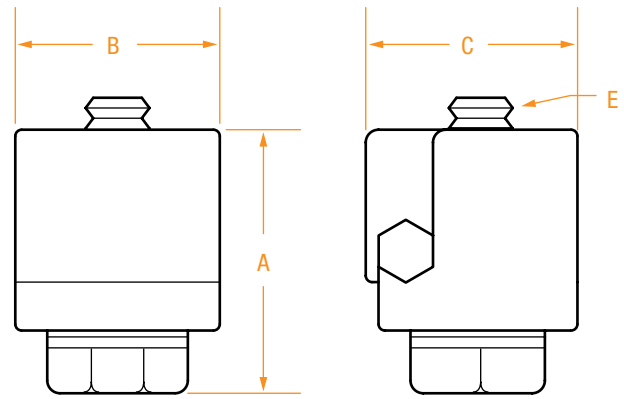


Distribution Equipment

Distribution Equipment	Series	Page
Bronze Vise Connectors – Jaws Overlap	VC Series	73
Aluminum Hot-Line Clamps	AHLC Series	74
Bronze Hot-Line Clamps	BHLC Series	75
Aluminum Hot-Line Clamps	AHLC-397 Series	76
Aluminum Parallel Clamps With Plastic Covers	APC Series	77
Aluminum & Bronze Stirrup Connectors	ASC & BSC Series	78
Aluminum Clamshell Stirrups	BCASC Series	79
Bronze Vise Connectors – Jaws Meet	VC-H Series	80
Tank Ground Connectors	RTG Series	81
Service Drop Connectors	RSD Series	82
Mid-Span Clamps	SDC & SEC Series	83
Neutral Dead Ends	RDE Series	84
Stirrups	RST Series	85
Overhead Bail Clamps	RB Series	86
Bolted Wedge Connectors	RBWC Series	87
Bronze Parallel Vise Connectors	VC-80XX Series	88

Pedestal Connectors.....	PC371105 Series.....	89
Acorn Ground Clamps.....	ACRN Series.....	90
Neutral-Span Clamps.....	R07-1285 Series.....	91
Underground Residential Distribution Multi-Splice.....	URD Series.....	92
Fiber Optic Clamp.....	RAFOB Series.....	93
Fiber Optic Offset Bracket.....	RFB Series.....	94

- 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.

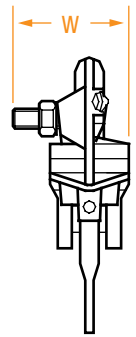
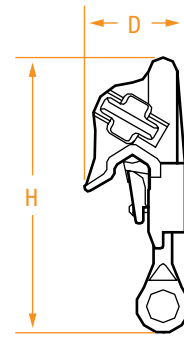


Figure 1

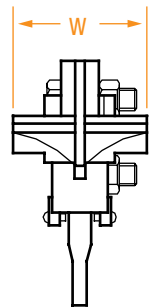
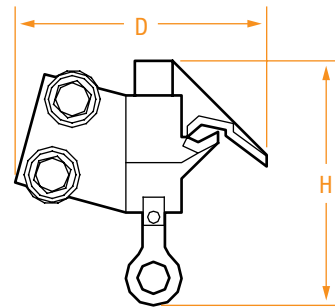


Figure 2

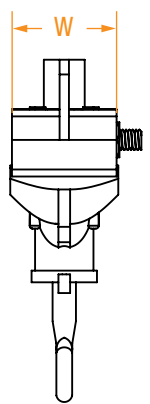
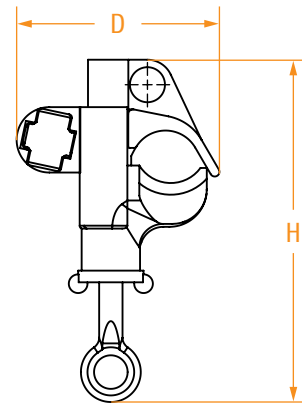


Figure 3

PART NUMBER*	FIGURE	WIRE SIZE - RUN		WIRE SIZE - TAP		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	4/0	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

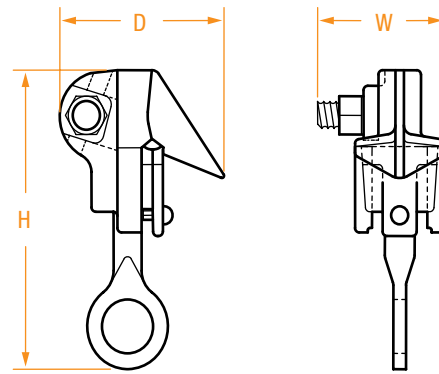
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* 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 nut 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.



PART NUMBER*	WIRE SIZE - RUN		WIRE SIZE - TAP		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



NOW AVAILABLE

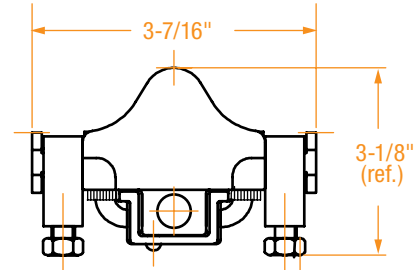
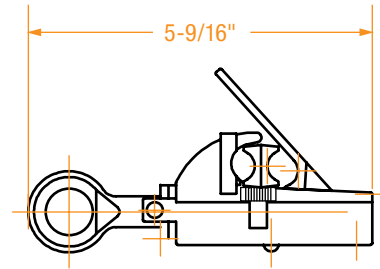
BHLC-100 is now available with extended tongue which facilitates landing the clamp onto the overhead conductor. To order, use part number BHLC-100-XT.

* 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.

- 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.



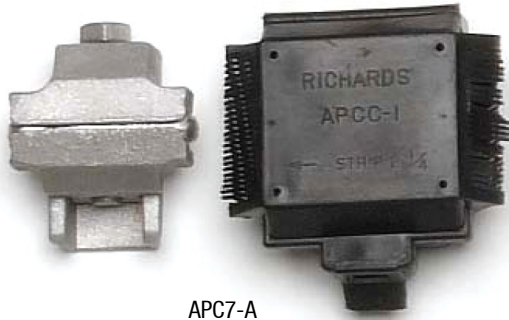
AHLC-397



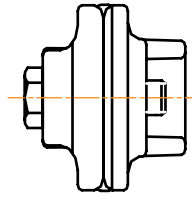
PART NUMBER	WIRE SIZE - RUN		WIRE SIZE - TAP	
	Min	Max	Min	Max
AHLC-397	3/0 ACSR / 4/0 Str. Al	336,400 ACSR / 397,500 Al	3/0 ACSR / 4/0 Str. Al	336,400 ACSR / 397,500 Al

DISTRIBUTION EQUIPMENT

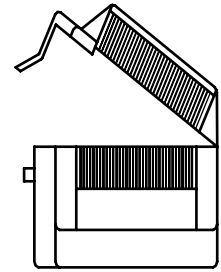
- Taps overhead secondary for connection to customer.
- Easily installed on energized or de-energized cables.
- Designed to withstand vibrations.
- Low torque provides high pressure on conductor.



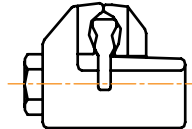
APC7-A



Aluminum Connector



Snap On Plastic Cover



PART NUMBER*	WIRE SIZE - RUN		WIRE SIZE - TAP		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
APC132	4/0-666,000 ACSR	266,800-800,000 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.

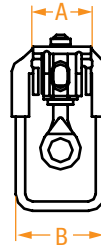
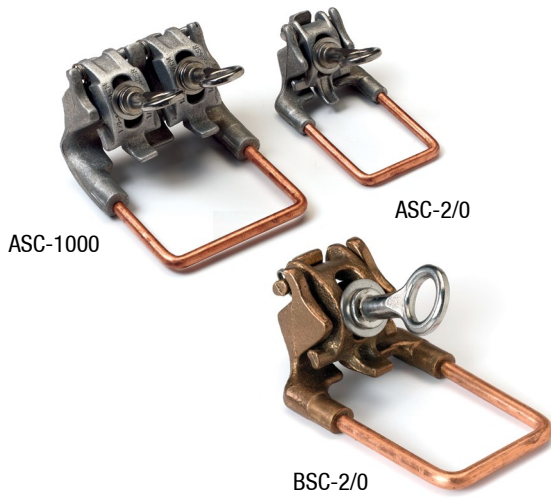


Figure 1

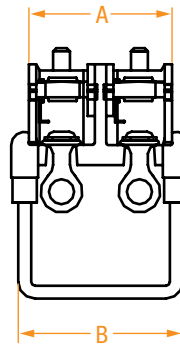
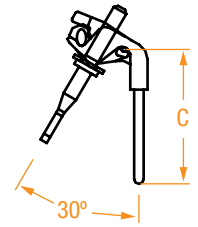
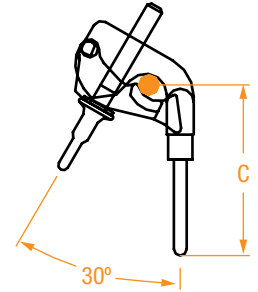


Figure 2



PART NUMBER*	WIRE SIZE	# 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"

DISTRIBUTION EQUIPMENT

* 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.

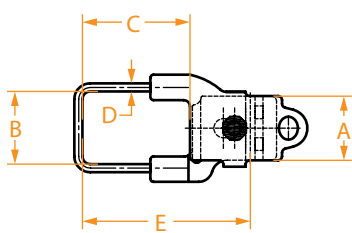


Figure 1

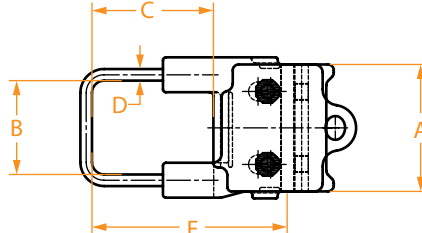


Figure 2

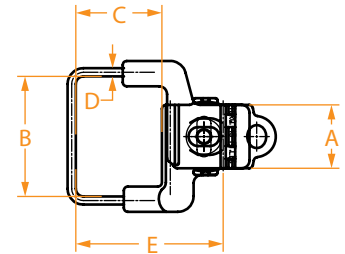


Figure 3

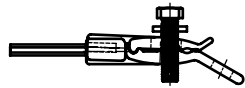


Figure 4

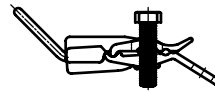


Figure 5

PART NUMBER*	FIGURE	WIRE SIZE		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" - .795")	1/0-477 18/1 (.398" - .814")	4	3-1/8	4-1/4	2/0 Cu	6-1/8
BCASC397-45	2&5	2/0-477 (.414" - .795")	1/0-477 18/1 (.398" - .814")	4	3-1/8	4-1/4	2/0 Cu	6-1/8
BCASC397-E-45	2&5	2/0-477 (.414" - .795")	1/0-477 18/1 (.398" - .814")	4	3-1/8	4	2/0 Cu	5-3/4
BCASC397-L	2&4	2/0-477 (.414" - .795")	1/0-477 18/1 (.398" - .814")	4	3-1/8	4-1/8	1/0 Cu	6-1/8
BCASC397-E-45-L	2&5	2/0-477 (.414" - .795")	1/0-477 18/1 (.398" - .814")	4	3-1/8	3-7/8	1/0 Cu	5-3/4

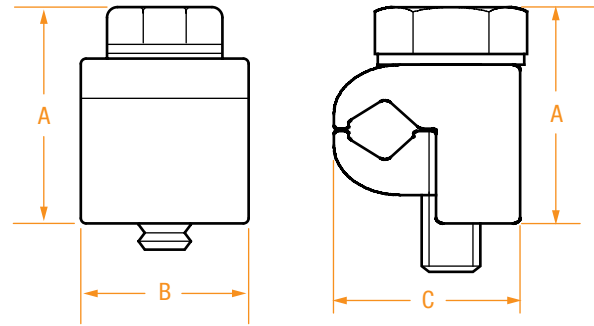
* The following is a key for part number suffixes:

E=Eye Bolt

W=Wide Bail
(See figures 2 & 3)

45=45° Bail
(See figure 5)

- 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.

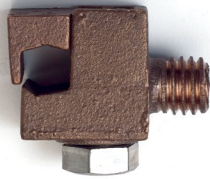


PART NUMBER*	CLAMPS 2 CABLES TOGETHER: THIS SIZE CABLE COMBINED WITH ANY CABLE LESS THAN OR EQUAL IN DIAMETER	DIMENSIONS IN INCHES			BOLT HEAD SIZE
		A	B	C	
VC3-H	#6	15/16	9/16	5/8	3/8 Slotted
VC5-H	#2	1-1/8	11/16	13/16	9/16
VC7-H	1/0	1-1/2	13/16	1-1/16	9/16
VC10S-H	2/0	1-5/8	1	1-1/8	9/16
VC12-H	4/0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

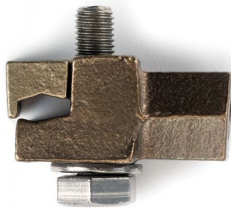
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

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

- 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

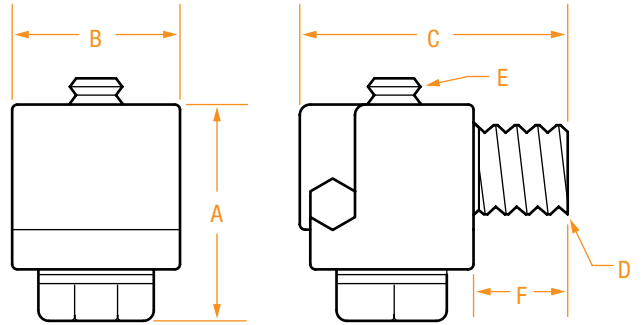


Figure 1

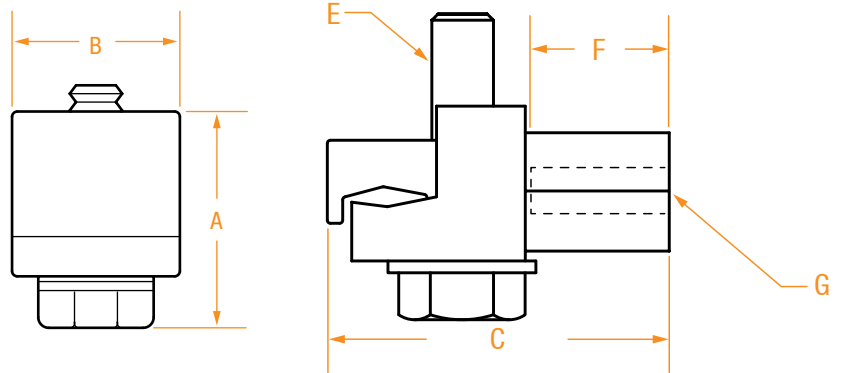


Figure 2

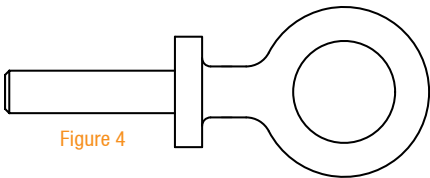


Figure 4

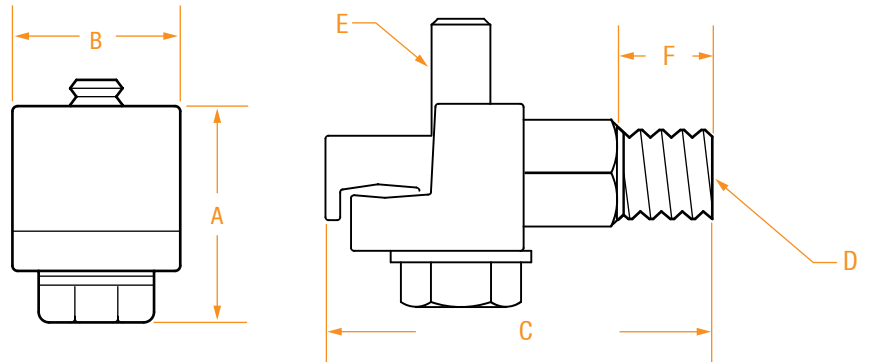


Figure 3

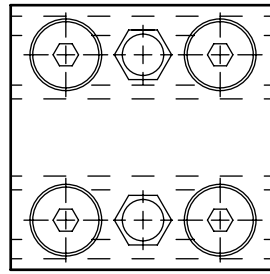
PART NUMBER*	CONDUCTOR RANGE	FIGURE #	DIMENSIONS IN INCHES						
			A	B	C	D	E	F	G
RTG512	6 Sol. to 1/0	1	1-1/4	3/4	1-3/8	1/2-13	5/16	1/2	-
RTG512-XL	6 Sol. to 1/0	1	1-1/4	3/4	1-3/8	1/2-13	5/16	1-1/16	-
RTG512-F	6 Sol. to 1/0	2	7/8	7/8	1-11/16	-	5/16	1/2	Threaded hole 5/16 -18
RTG512-F-3/8	6 Sol. to 1/0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

* For plated connectors, add "-TN" to the part number.

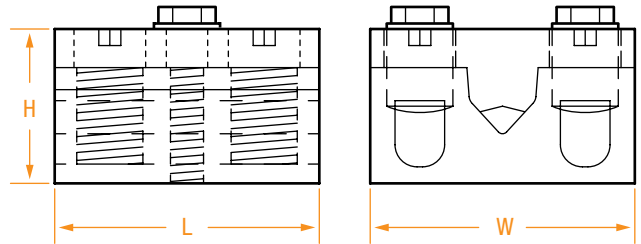
** Note: All RTG designs are available with eyebolt shown in Figure 4. To order add "E" to the part number.

- Designed for multiple service connections.
- 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.
- For use with copper or aluminum conductor.



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.



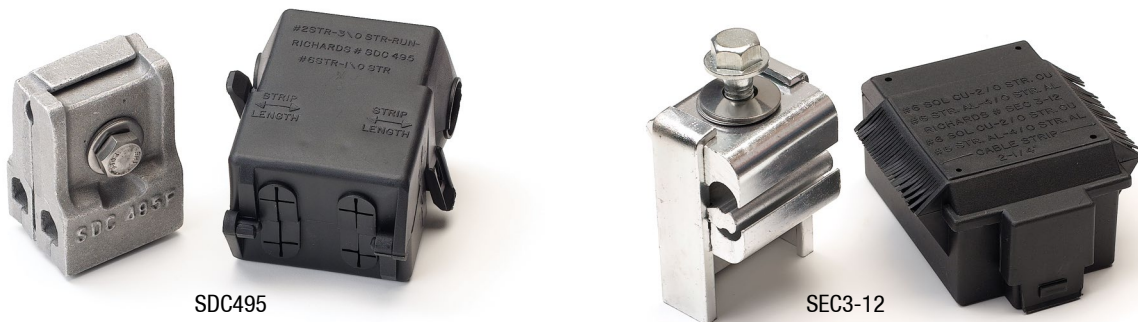
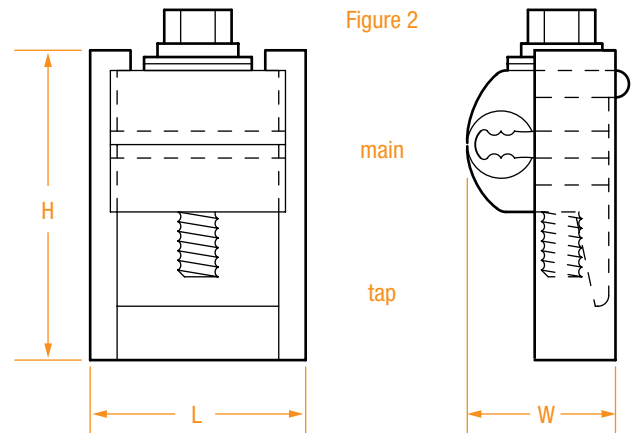
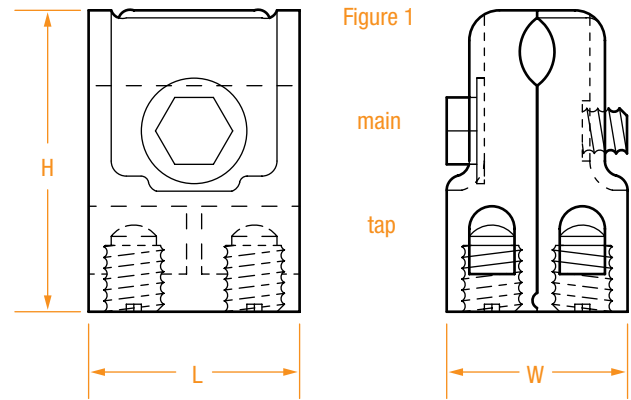
RSD262

PART NUMBER	WIRE SIZE		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

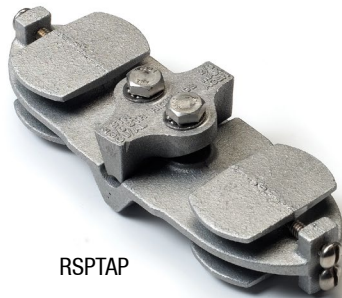
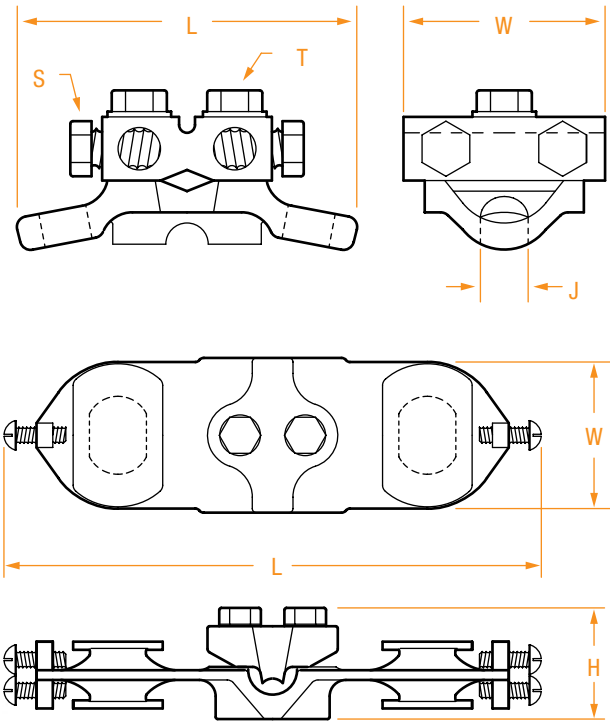
* Comes with the black cover RSD262C.

- Mid-span clamps 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.



PART NUMBER	WIRE SIZE		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

- The RICHARDS NSC-547 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	WIRE SIZE				DIMENSIONS IN INCHES					
	RUN		TAP		H	J	L	W	T	S
	Min	Max	Min	Max						
NSC-547	#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 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.

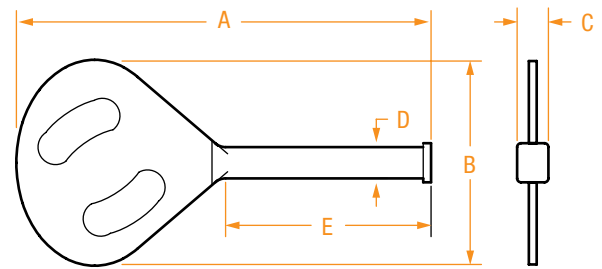


Figure 1

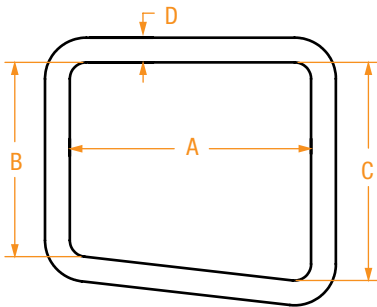


Figure 2

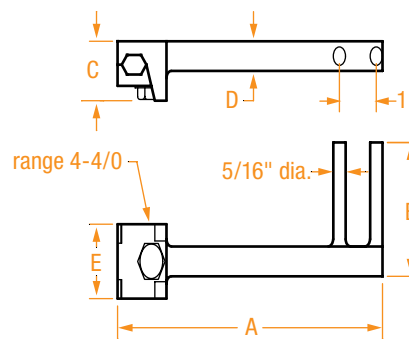
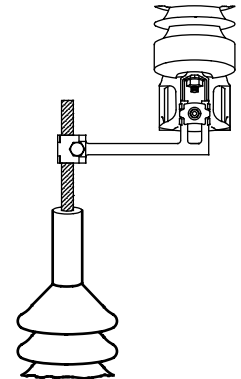


Figure 3



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.

- 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.

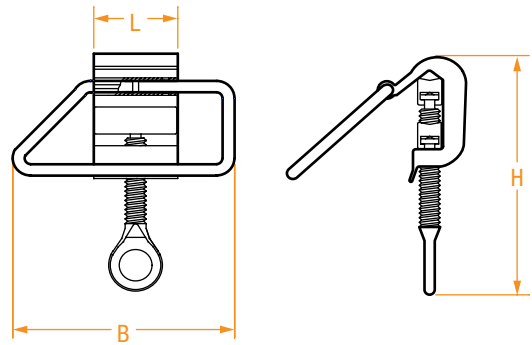
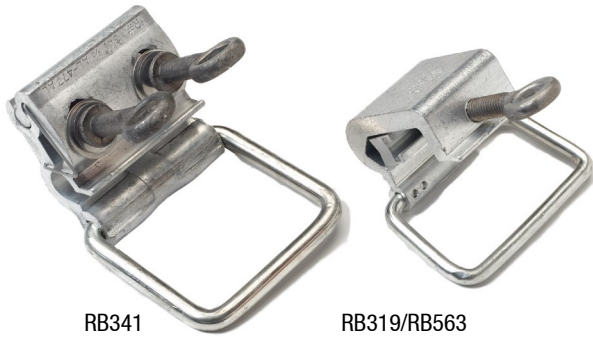


Figure 1

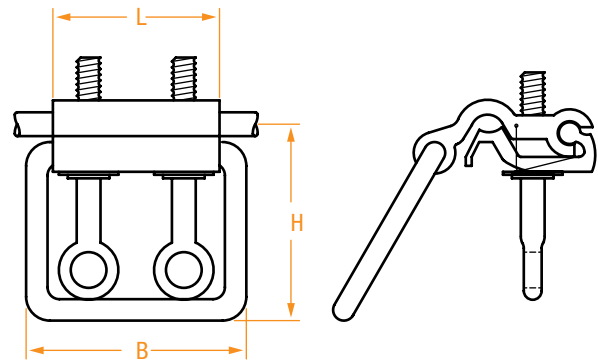
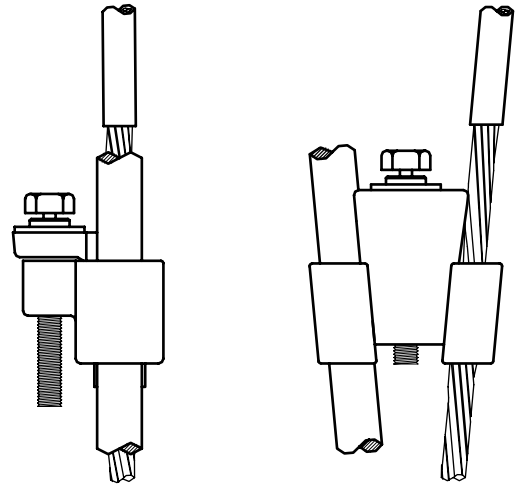


Figure 2

PART NUMBER*	FIGURE	WIRE SIZE		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.

- 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.



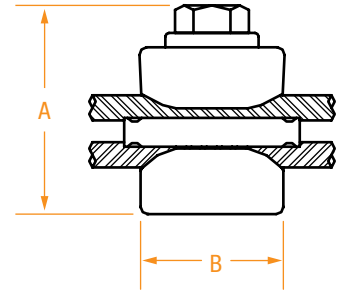
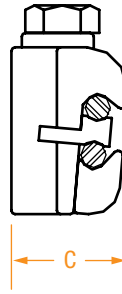
PART NUMBER	WIRE SIZE		BOLT	BOLT HEAD
	MIN	MAX		
RBWC-L-9-7	#2	1/0	5/16	9/16
RBWC-L-9-5	#4	1/0	5/16	9/16
RBWC-L-9	1/0	1/0	5/16	9/16
RBWC-M-5/8-7	#2	5/8" Ground Rod	5/16	9/16
RBWC-M-5/8-9	1/0	5/8" Ground Rod	5/16	9/16

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-P



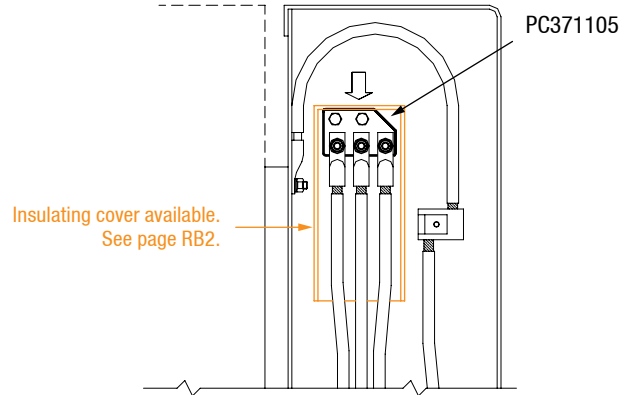
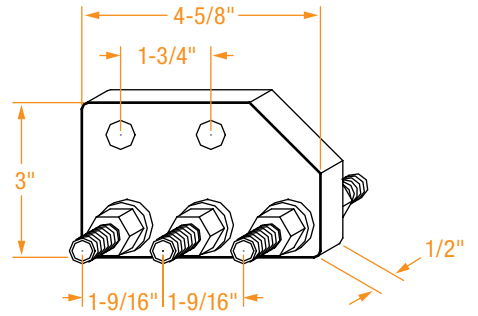
VC-8058-SH

PART NUMBER*	WIRE SIZE		DIMENSIONS IN INCHES			BOLT	BOLT HEAD
	MIN	MAX	A	B	C		
VC-8002	#8	#2 Sol	1-3/16	1	3/4	5/16	9/16
VC-8010	#8	#1	1-7/16	1	1	5/16	9/16
VC-8020	#8	2/0 Str/ 3/0 Sol	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.

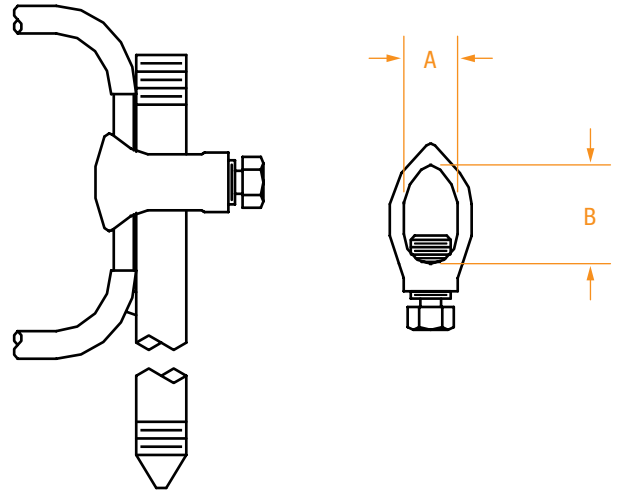
- Plate is tin-plated aluminum.
- Stainless steel studs.
- Zinc dichromate-plated washer nuts.



PART NUMBER	STUD SIZE
PC371105	1/2"

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

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



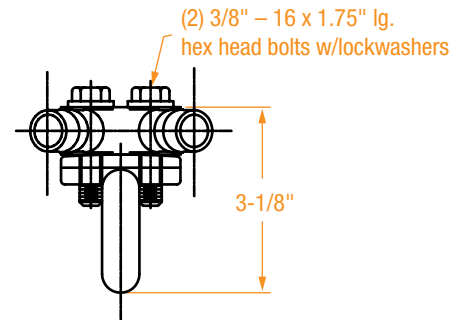
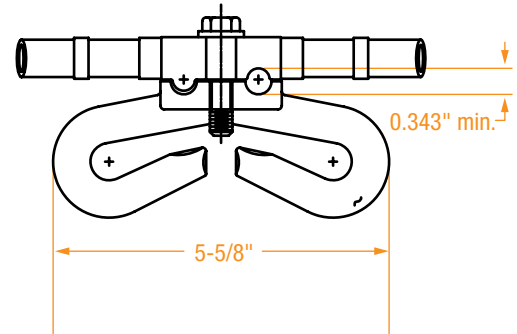
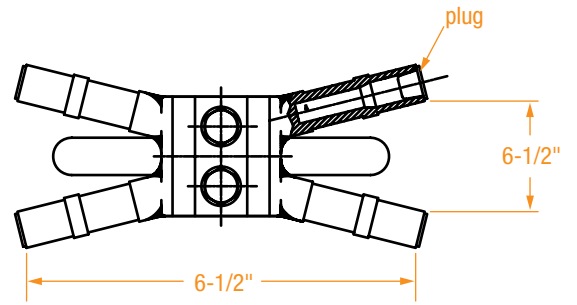
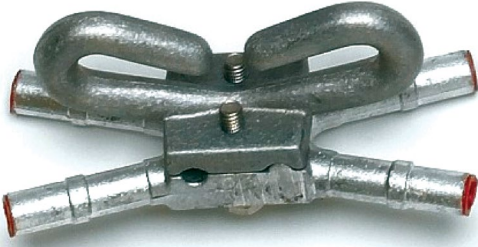
PART NUMBER	WIRE SIZE	ROD SIZE	DIMENSIONS IN INCHES	
			A	B
ACRN-5/8*	#8-1/0	5/8"	11/16	1-1/16
ACRN-5/8-CPS	#2-14	5/8"	5/8	1-1/16

* 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.

DISTRIBUTION EQUIPMENT

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.



Rubber tabs allow quick access to hex screw and maintain watertight seal

EPDM, marked with instructions and conductor range, insulates Al bus and keeps part durable

Unit accepts wide range of cable from #12 SOL to 500MCM

(5/16") Hex wrench used to connect cable



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"

DISTRIBUTION EQUIPMENT

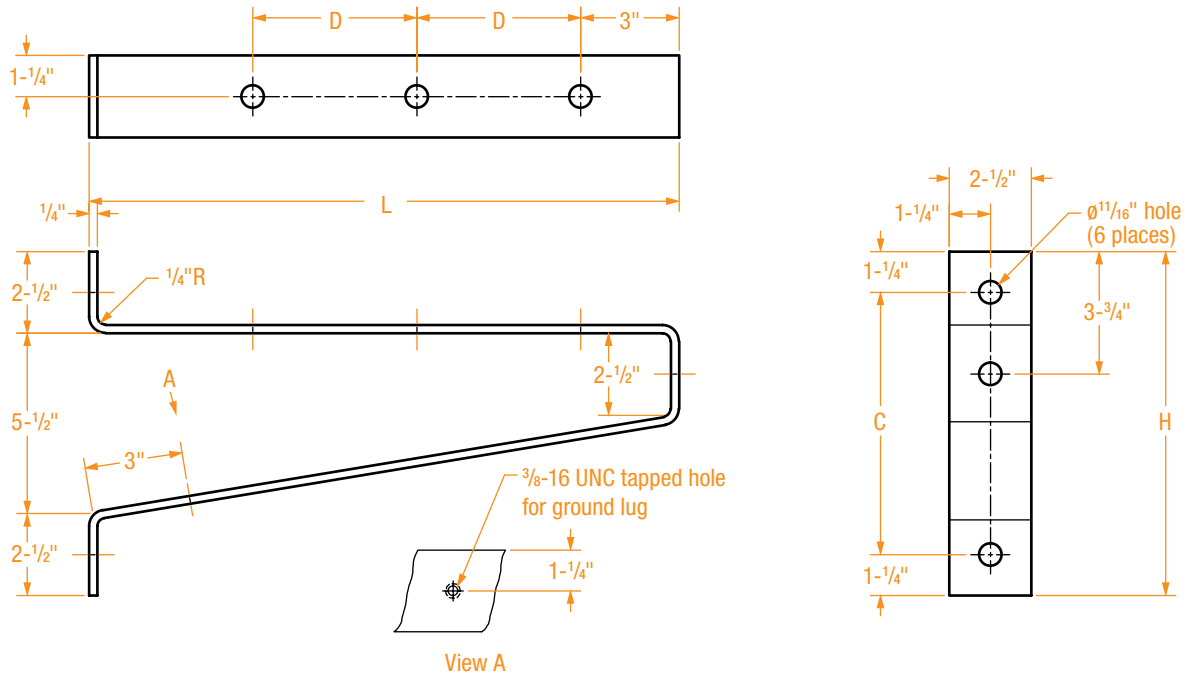
- Unit clamps onto fiber optic cable.
- Rubber “O” ring keeps bolt captive to bracket.
- EPDM Rubber insert withstands the toughest environmental conditions, including extreme temperature fluctuations and ozone exposure.
- Multiple insert sizes are offered to house a variety of cable diameters.
- Offset 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

- 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.



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



Underground Equipment	Series	Page
Bare Crab Joints For Joining Bare Neutral Cables	FJB Series	97
Insulated Crab Joints	FJI Series	98
Insulated Crab Joints – No Tape Type	FJINT Series	99
Fusible Crab Joints – Tower Joints	TWJ Series	100
Tower Joint Accessories – Cable End Caps & Shells	TWJA Series	101
High-Temperature Filler Shell	TWJA Series	101
Tower Joint Accessories – Insulating Sleeves & Caps	TWJS Series	102
Insulating Sleeves For Use With “TWJ” Series Fusible Crab Joints.....	TWJS Series.....	102
Fusible Crab Joints With Pigtails	CJLP Series.....	103
Crab Joints With Pigtails.....	SJ Series	104
Mole Limiter Assembly	RMLA Series	105
Cable-To-Cable IN-LINE Limiter.....	CCLA Series	106
Cable-To-Cable Limiter Assembly	CCLA Series	107
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High-Temperature Filler Shell For Cable-To-Cable Limiters	ALS Series.....	109

Limiter Lug Assembly	CLLA Series.....	110
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Limiter Lug Accessories – Insulating Sleeves & Shells	LLS Series	112
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Disconnect Network Protector Terminals	NPT-DISC Series.....	116
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Protector Fuses – Low-Loss “S” Fuse	LLF Series	118
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Network Protector Fuses – “Y” Fuse	NPF-L Series	120
Lead Alloy Network Protector Fuses – Laminated Type – Standard Speed	Alloy Fuse Series	121
Lead Alloy Network Protector Fuses – Laminated Type – Time Lag	Alloy Fuse Series (continued).....	122
Lead Alloy Network Protector Fuses – Non-Laminated Type (Single Layer).....	NF Series.....	123
Copper Link Fuses.....	NWP Series	124
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Joint Casings.....	JC Series	128
Cable Rack Arms	RA Series	129
Stanchions	RA Series	130
Standard Cable Rack Arms	SRA Series	131
Pigtail Plug	PTP Series.....	132
Secondary Cold-Shrink Splice	PSCS Series	133
Lifting Hooks	RLH Series	134
Insulated T-Wrench.....		135

- 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.

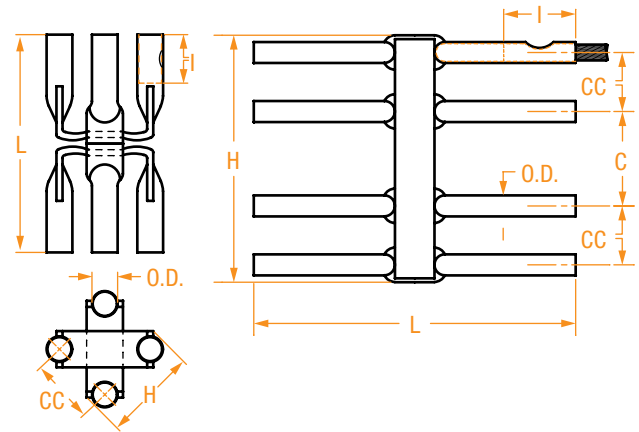


Figure 1

Figure 2

PART NUMBER	WIRE 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.

- 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.

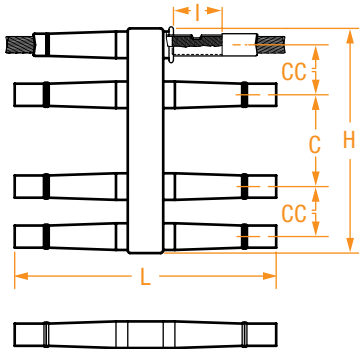


Figure 1

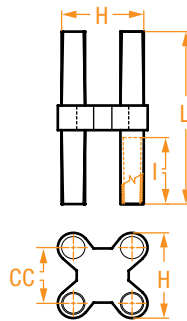


Figure 2



Figure 3



Figure 4

PART NUMBER	WIRE 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.

- 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.

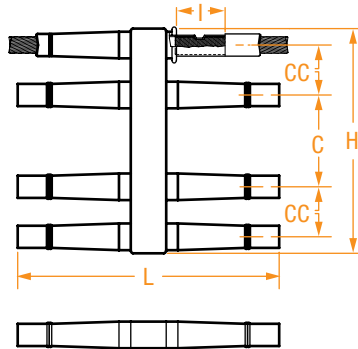


Figure 1

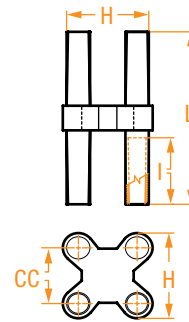


Figure 2

PART NUMBER	WIRE 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

- 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.

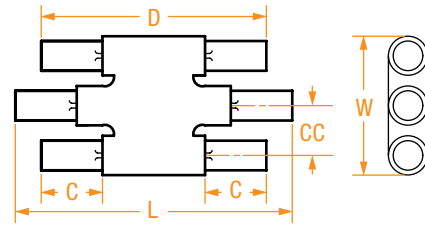
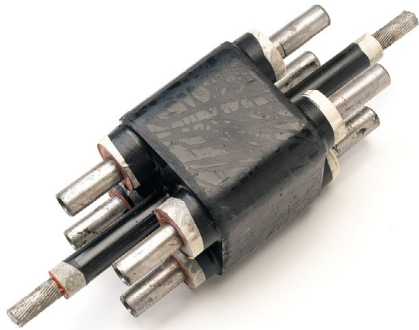


Figure 1

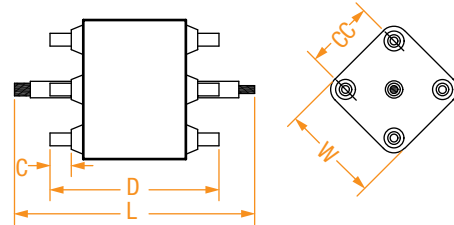


Figure 2

PART NUMBER	WIRE 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 (limited) and designed for 4/0 cable.

- 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.

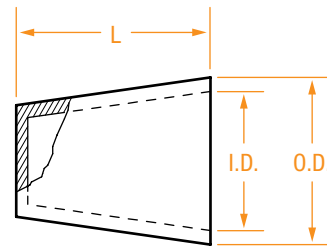


Figure 1

PART NUMBER	WIRE 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

- 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.

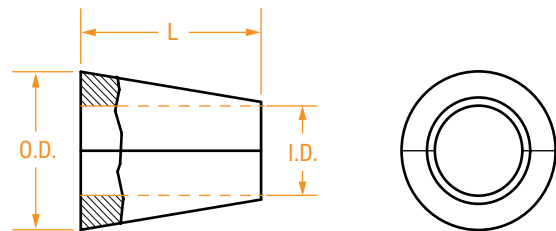


Figure 2

PART NUMBER	WIRE 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.

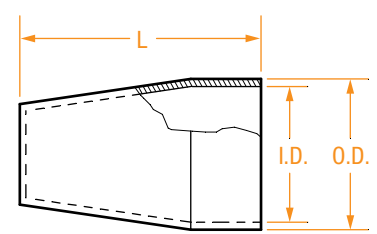


Figure 1

PART NUMBER	WIRE 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.

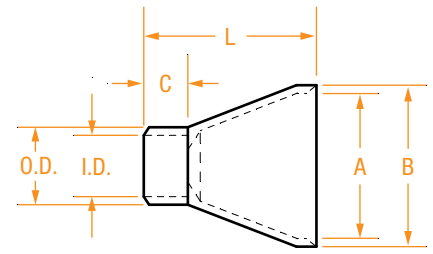


Figure 2

PART NUMBER	WIRE 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

- 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.

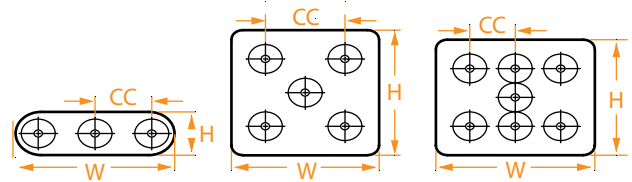
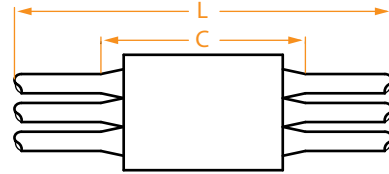


Figure 1

Figure 2

Figure 3

PART NUMBER	WIRE SIZE	FIGURE	DIMENSIONS IN INCHES				
			C	L	H	W	CC
CJLP500-3W	500	1	14-1/2	64	2-1/2	7	2-1/2
CJLPS500-3W	500	1	14-1/2	46	2-1/2	7	2-1/2
CJLP500-5W	500	2	17-5/8	62	6-1/2	6-1/2	3-1/2
CJLPS500-5W	500	2	17-5/8	44	6-1/2	6-1/2	3-1/2
CJLP500-7W	500	3	19	52	6	7	2-1/4

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

CRAB JOINTS WITH PIGTAILS

- 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.

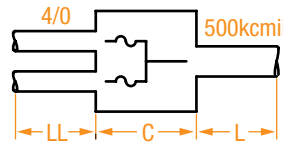


Figure 1

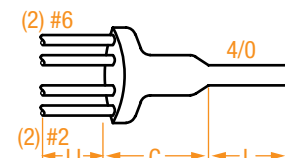


Figure 2

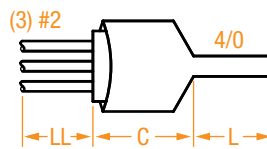


Figure 3

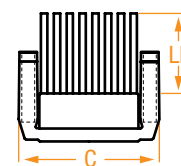


Figure 4



PART NUMBER	WIRE 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

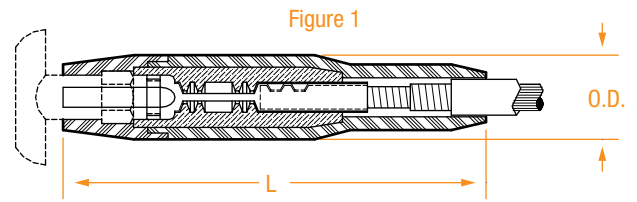
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

–0– indicates a cable port, rather than a cable length.

* The two (2) 4/0 cables are limited. 125/216V applications only.

** Cable lengths given are standard, contact the factory for different lengths.

- 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	WIRE 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	WIRE 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	WIRE 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	WIRE 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

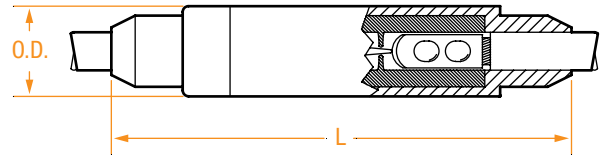
- Cable-to-Cable Limiter Assemblies are complete units that include a cable-to-cable fusible element, a high-temperature filler shell and an insulating sleeve.
- This one-piece design is easy install and use.
- For 125/216V applications only.



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

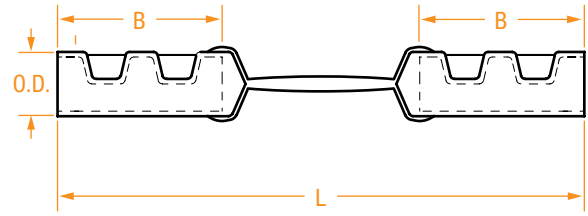
* Number of indents refers to the number of crimps (min) to make on each side of the limiter using a nested indenter tool.

- Cable-to-Cable Limiter 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		WIRE 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

- 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		WIRE 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.

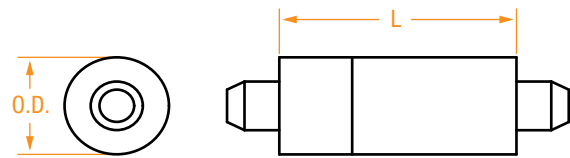


Figure 1

PART NUMBER	WIRE SIZE	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

LS Series

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

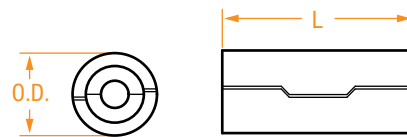


Figure 2

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

- 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.

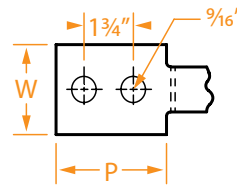
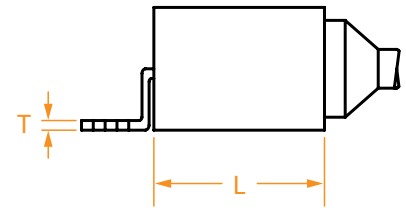


Figure 1
“NEMA Pad”

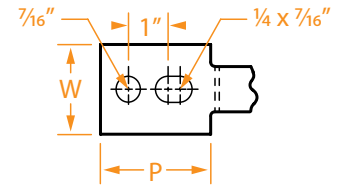


Figure 2
“A Pad”

PART NUMBER		WIRE SIZE	FIGURE	DIMENSIONS IN INCHES			
RUBBER INS.	PAPER INS.			L	W	P	T
CLLA4/0N	CLLAP4/0-N	4/0	1	10	1	2-7/16	9/64
CLLA4/0-A	CLLAP4/0-A	4/0	2	9-3/4	1	2-3/16	9/64
CLLA250-N	CLLAP250-N	250	1	10	1-1/8	2-7/16	5/32
CLLA250-A	CLLAP250-A	250	2	9-3/4	1-1/8	2-3/16	5/32
CLLA300-N	CLLAP300-N	300	1	10-7/8	1-3/16	2-9/16	5/32
CLLA300-A	CLLAP300-A	300	2	10-3/8	1-3/16	2-5/16	5/32
CLLA350-N	CLLAP350-N	350	1	10-7/8	1-5/16	2-9/16	3/16
CLLA350-A	CLLAP350-A	350	2	10-3/8	1-5/16	2-5/16	3/16
CLLA400-N	CLLAP400-N	400	1	10-3/4	1-7/16	2-9/16	3/16
CLLA400-A	CLLAP400-A	400	2	10-1/2	1-7/16	2-5/16	3/16
CLLA500-N	CLLAP500-N	500	1	11-3/4	1-1/2	3	7/32
CLLA500-A	CLLAP500-A	500	2	11-1/2	1-1/2	2-3/4	1/4
CLLA750-N	CLLAP750-N	750	1	11-3/4	1-15/16	3	1/4
CLLA750-A	CLLAP750-A	750	2	11-1/2	1-15/16	2-3/4	1/4

- 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.

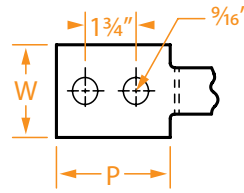
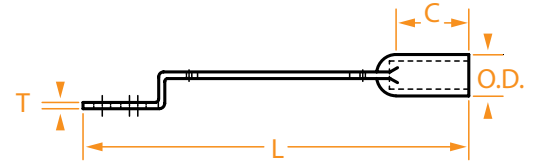


Figure 1
"NEMA Pad"

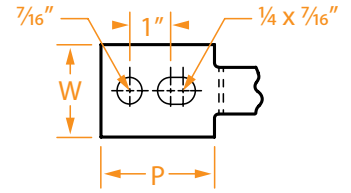


Figure 2
"A Pad"

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

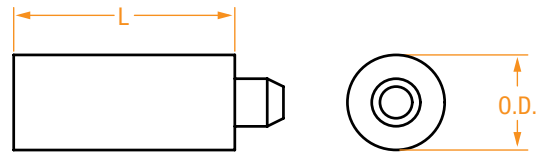


Figure 1

PART NUMBER	WIRE SIZE	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.

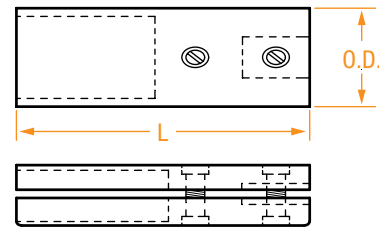


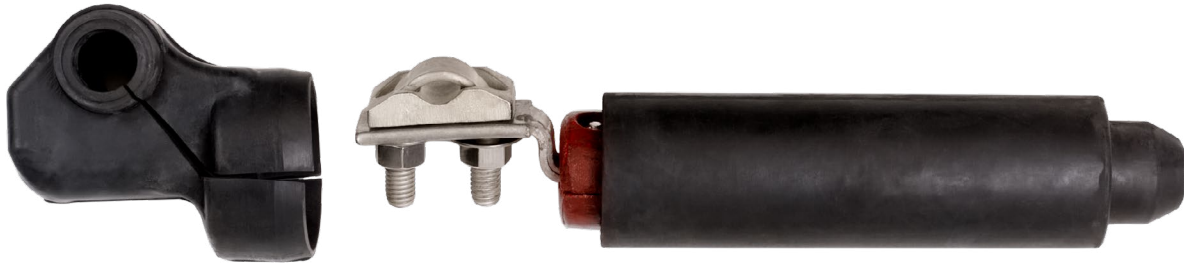
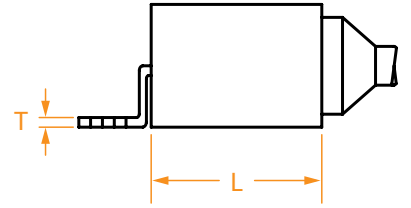
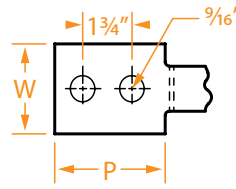
Figure 2

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

- Network protector terminals are designed for use on network protectors.
- Terminals available with built-in cable limiters (limited) or without (non-limited).
- 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.

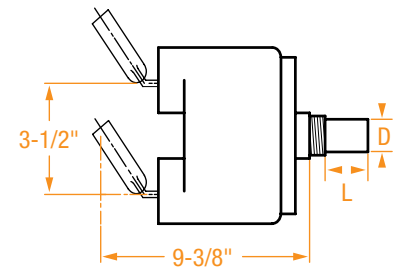
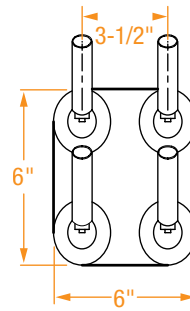


Figure 1



Figure 2



Figure 3

Terminal supplied with four rubber boots.



Figure 4

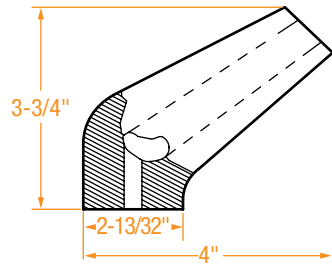
Terminal supplied with four rubber sleeves
Shown, 4 CL18-2N (500 mcm Cu lugs) and hardware.

PART NUMBER	NETWORK PROTECTOR MANUFACTURER	WIRE SIZE	DRAWING NO.	# OF CABLE PORTS	FIGURE	LIMITED OR NON-LIMITED	DIMENSIONS IN INCHES	
							B (L)	D
NPT523-0925 (was NPT500A)	Richards 313NPs & Westinghouse	500	MN-E02167-B	4	1	Limited **	1-7/8	1-1/4
312-1316-00	Richards 313NPs & Westinghouse	500	MN107447	4	1	Non-Limited	1-7/8	1-1/4
312-1311-00	Richards 313NPs & Westinghouse	750	MN106980	6	2	Limited **	2-1/8	3-3/4
312-1315-00*	Richards 313NPs & Westinghouse	500	MN106147	4 2-hole spades	4	Limited **	1-7/8	1-1/4
312-1315-01*	Richards 313NPs & Westinghouse	500	MN106147	4 2-hole spades	4	Non-Limited	1-7/8	1-1/4
312-1268-00	Richards 313NPs & Westinghouse	500	MN101003	4	3	Limited **	1-7/8	1-1/4
312-1269-00	Richards 313NPs & Westinghouse	500	MN101003	4	3	Non-Limited	1-7/8	1-1/4
NPT523-0909 (was NPT500B)	Richards 137NPs & General Electric	500	MN-E02167-B	4	1	Limited **	1-1/4	1-1/4
312-1330-00	Richards 137NPs & General Electric	500	MN111240	4	1	Non-Limited	1-1/4	1-1/4

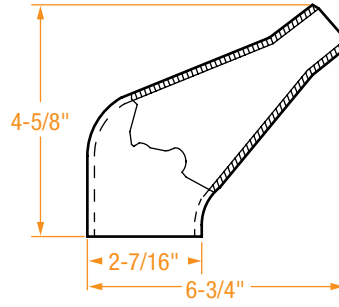
* Terminal supplied with four rubber sleeves, four two-hole 500 mcm copper lugs and hardware.

** For 125/216V applications only.

High-Temperature Shell



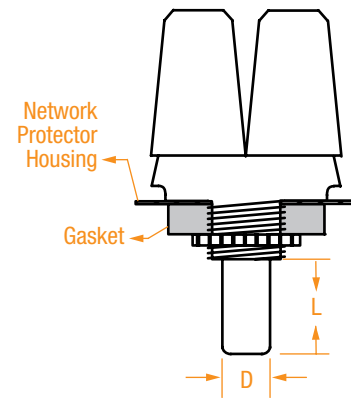
Insulating Sleeve



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

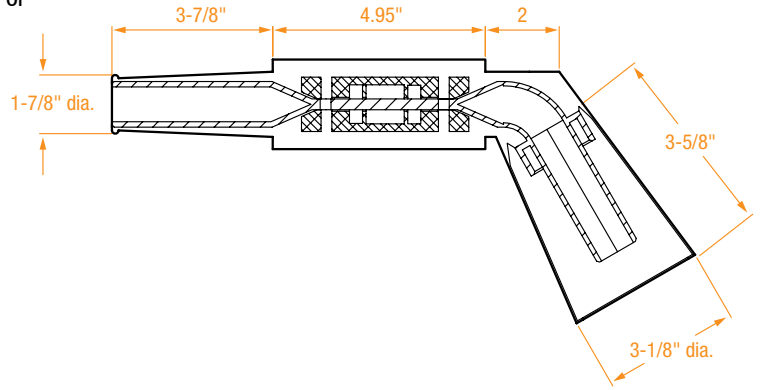
DISCONNECT NETWORK PROTECTOR TERMINALS

- 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 limited or unlimited, which eliminates the need to externally limiter each cable.



PART NUMBER	NETWORK PROTECTOR MANUFACTURER	WIRE 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

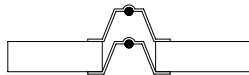
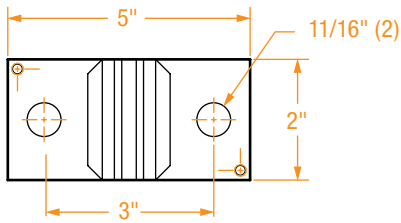
- The disconnect legs are available fused or unfused, straight or angled.
- Made of pure copper.
- Accepts 500 kcmil cable.
- Accessories available when using the disconnect.



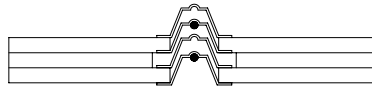
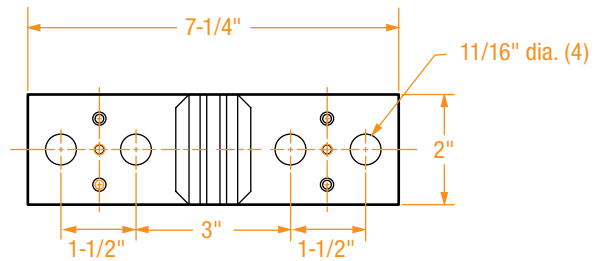
PART NUMBER	DISCONNECT LEG TYPE	
RDL-FA500	Fused *	Angled
RDL-US500	Unfused	Straight
RDL-UA500	Unfused	Angled

* For 125/216V applications only.

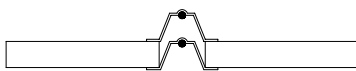
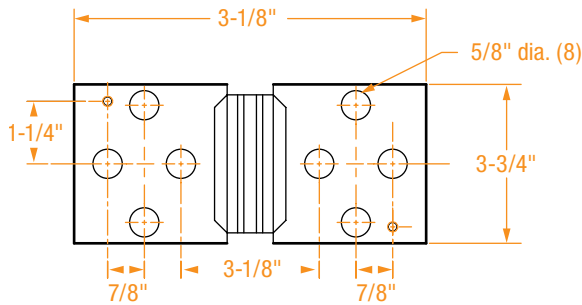
- LLF-KA fuses are to be used on 125/216V network protectors.
- LLF-KA fuses are made from silver-plated copper with a tin or cadmium overlay in the element.
- LLF-KA fuses are “low loss” meaning they radiate a limited amount of heat until they approach their melting temperature.



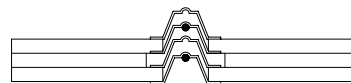
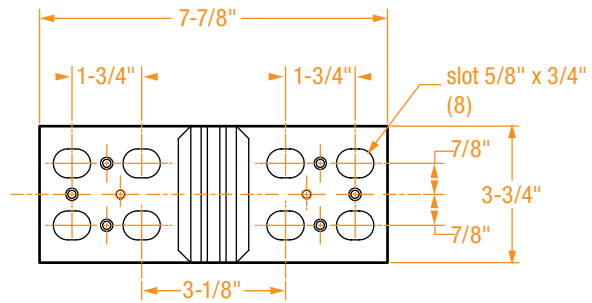
LLF-2KA
2,000 Amperes



LLF-2.25 KA
2,250 Amperes

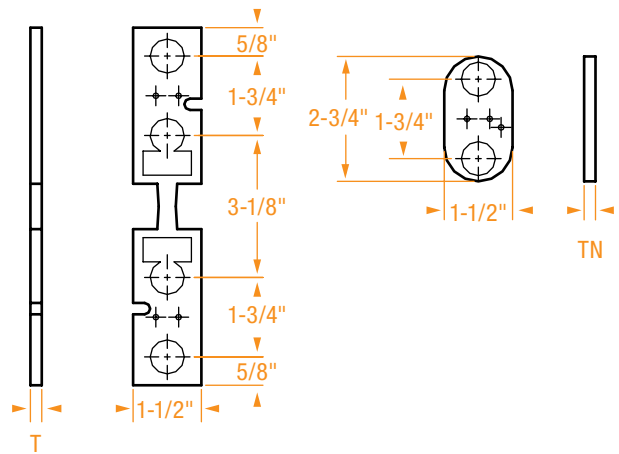


LLF-3KA/LLF-4KA
3,000/4,000 Amperes
(Same hole configuration
for both sizes)



LLF-5KA
5,000 Amperes

- Network protector fuses 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

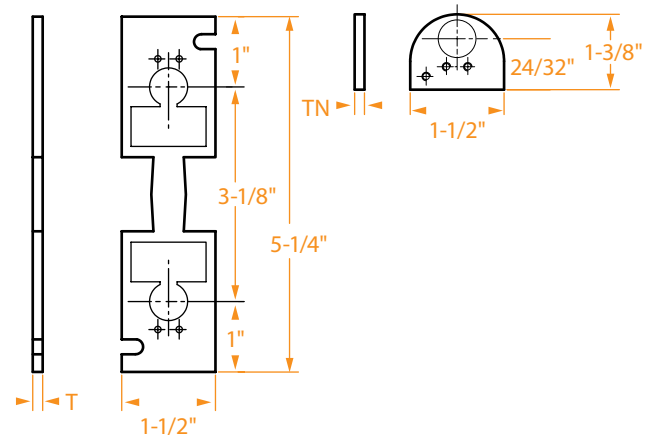


* Fuse cover is available for 125/216V applications. The part number is 312-3120-00.

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.

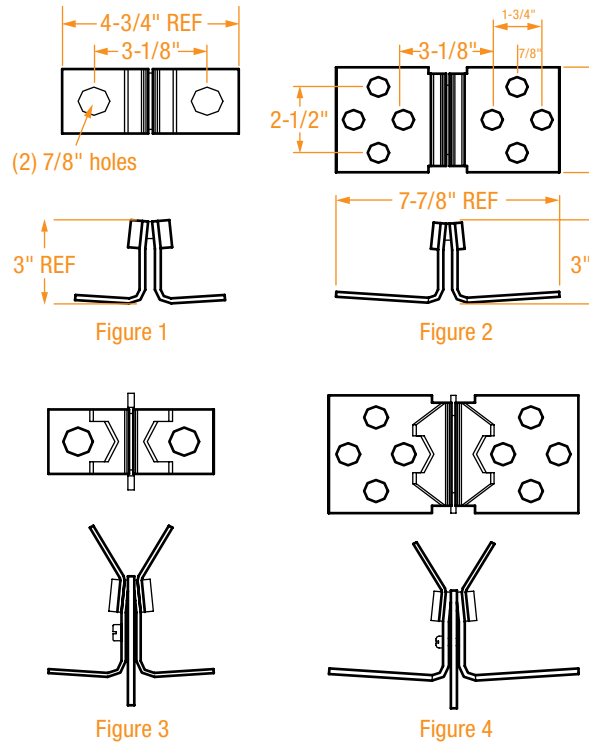


PART NUMBER	TRANSFORMER FULL LOAD (NORMAL) AMPERES	FUSE “T” DIMENSIONS IN INCHES	WASHER “TN” DIMENSIONS IN INCHES
NPF-11-L	800	.110	3/8
NPF-15-L	1200	.150	5/16
NPF-22.5-L	1600	.225	1/4
NPF-25-L	1875	.250	15/64
NPF-30-L	2000	.300	3/16
NPF-37.5-L	2500	.375	1/8
NPF-44-L	2825	.438	1/16
NPF-50-L	3000	.500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



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

Laminated Type – Standard Speed



UNDERGROUND EQUIPMENT

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
312-3208-00	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.

Laminated Type – Time Lag

UNDERGROUND EQUIPMENT

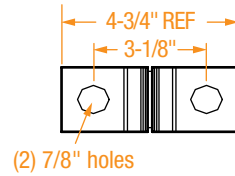


Figure 1

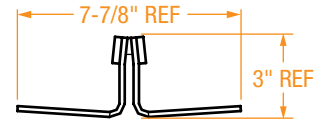
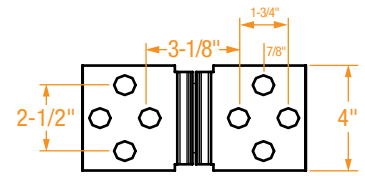


Figure 2

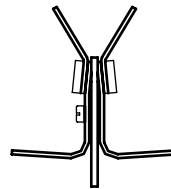
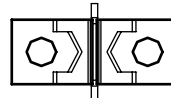


Figure 3

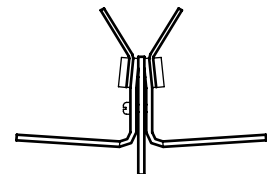
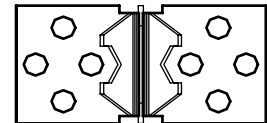
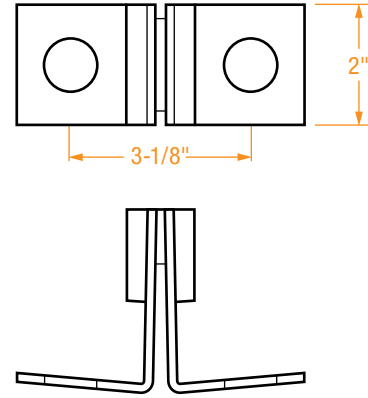


Figure 4

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

Non-Laminated Type – Single Layer

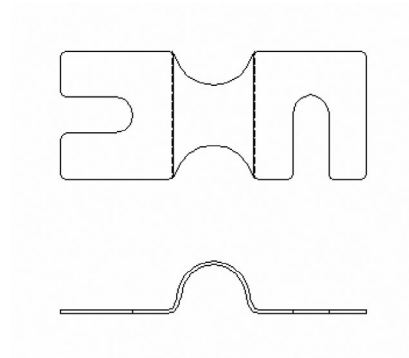
- Made from silver-plated copper and tin/lead solder.
- May be used at 125/216V or 277/480V.
- NF fuses have a lower loss, and a lower operating temperature than the equivalent copper link fuses.
- Time-current curves available upon request.



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

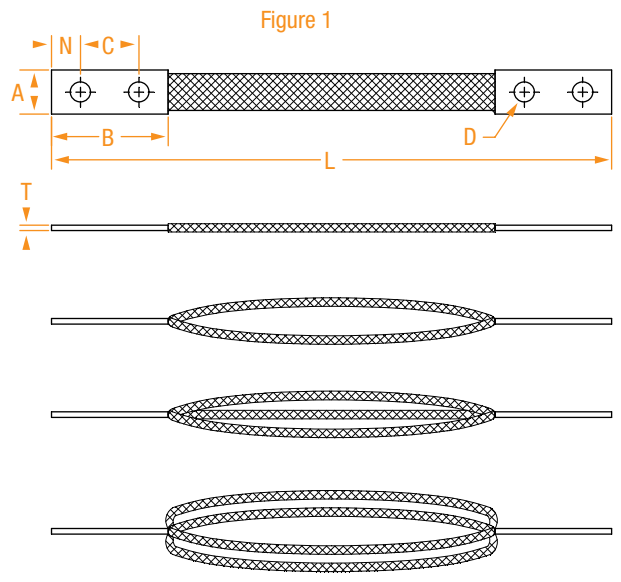
* Have two NEMA-spaced holes on each side.

- 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

- 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 drilling, contact the factory.



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

- 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.

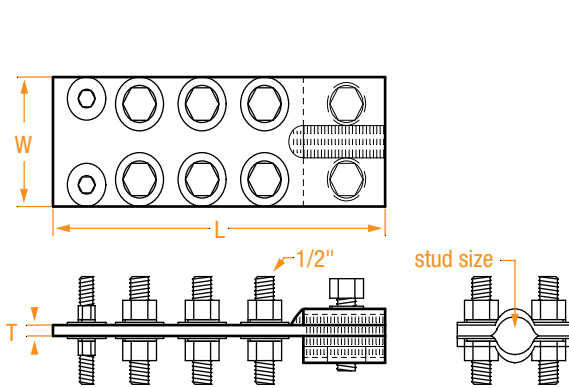
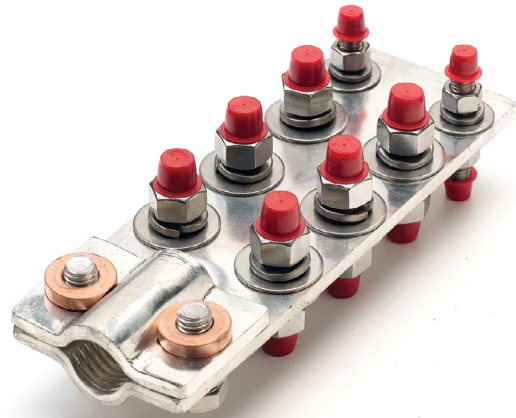


Figure 1

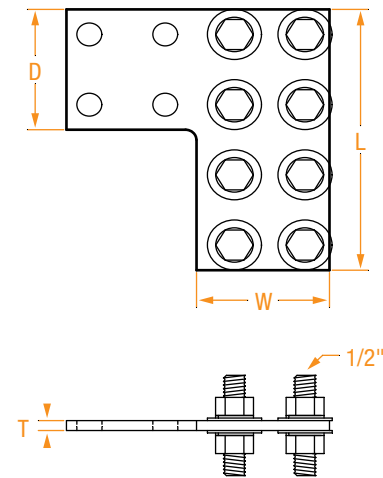
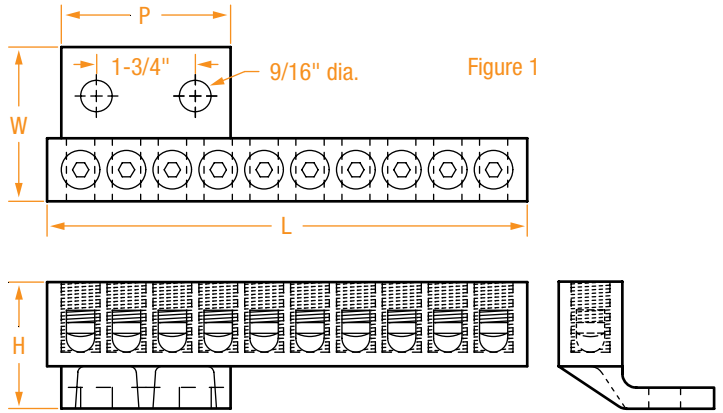


Figure 2

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

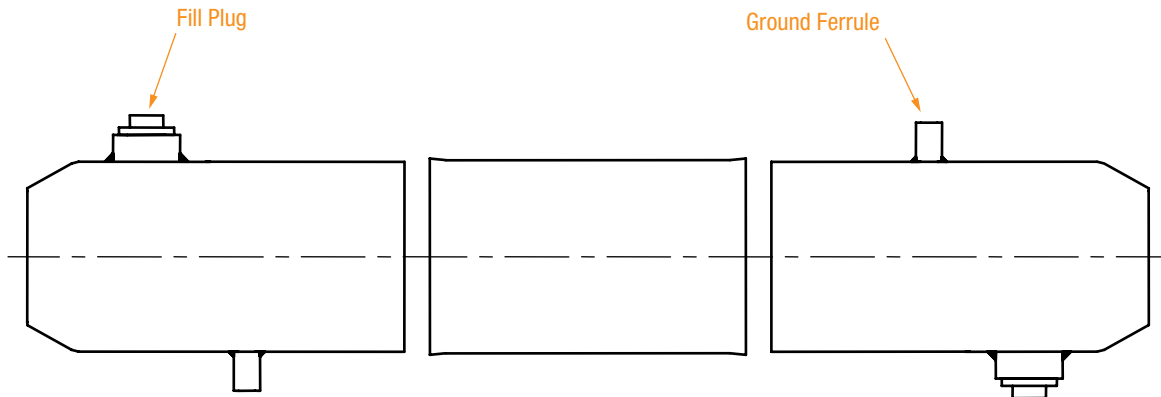
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

- 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.



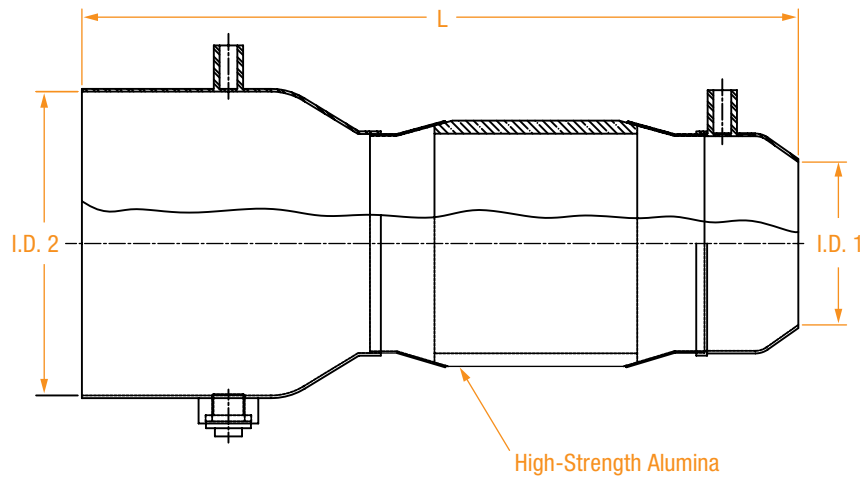
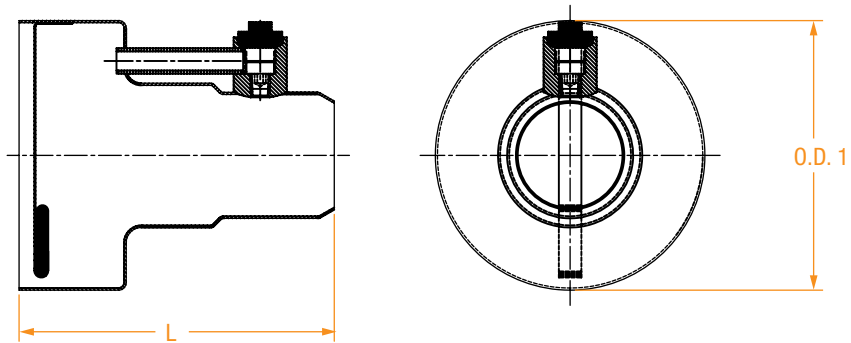
PART NUMBER	DIMENSIONS IN INCHES			
	L	H	W	P
SSCRW10-12-1	8-1/2	2-1/4	2-3/4	3

- 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.



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



Figure 4

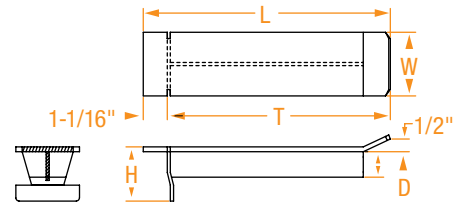


Figure 1

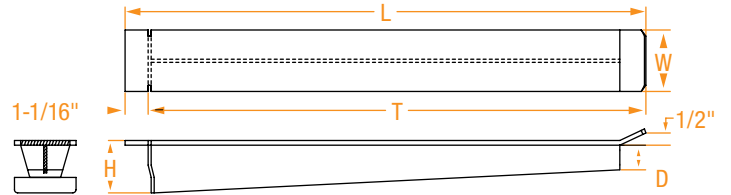


Figure 2

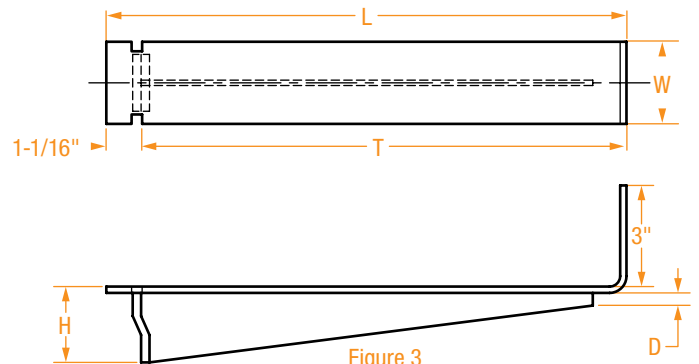


Figure 3

Cable Rack Arms

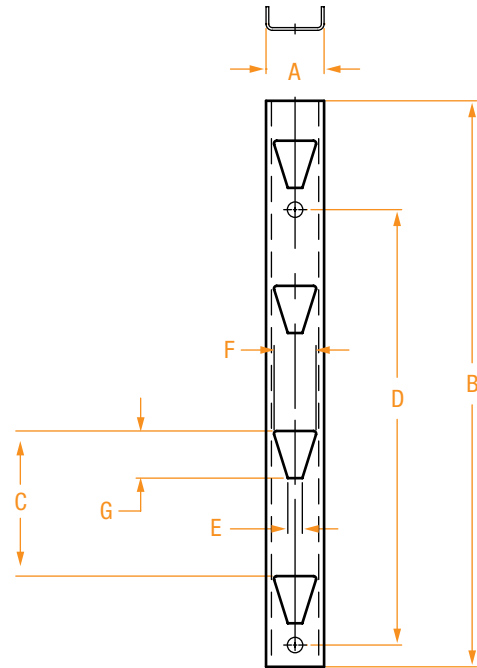
PART NUMBER*	FIGURE	DIMENSIONS IN INCHES			
		L	T	H	D
RA-1W	1	9-11/16	8-5/8	2-7/16	1
RA-2W	2	13-13/16	12-3/4	2-7/16	3/8
RA-3W	2	21-3/16	19-9/16	2-7/16	1/2
RA-1W-90	3	10	9-15/16	2-7/16	3/8
RA-2W-90	3	15-1/4	12-3/4	2-7/16	3/8
RA-3W-90	3	21-3/16	20-1/16	2-7/16	3/8

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.

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

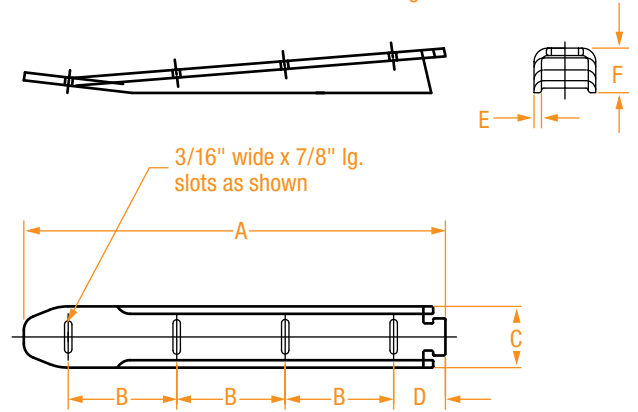


PART NUMBER	# OF SLOTS	DIMENSIONS IN INCHES						
		A	B	C	D	E	F	G
003-0346	1	4	9	–	6-3/4	1	2-29/32	3-1/4
003-0353	2	4	17-1/4	8	10	1	2-29/32	3-1/4
003-0379	2	4	19	10	10	1	2-29/32	3-1/4
003-0387	2	4	21	12	10	1	2-29/32	3-1/4
003-0395	3	4	25-3/4	8	23-1/4	1	2-29/32	3-1/4
003-0437	4	4	32	8	23-1/4	1	2-29/32	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.

- 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.

- 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

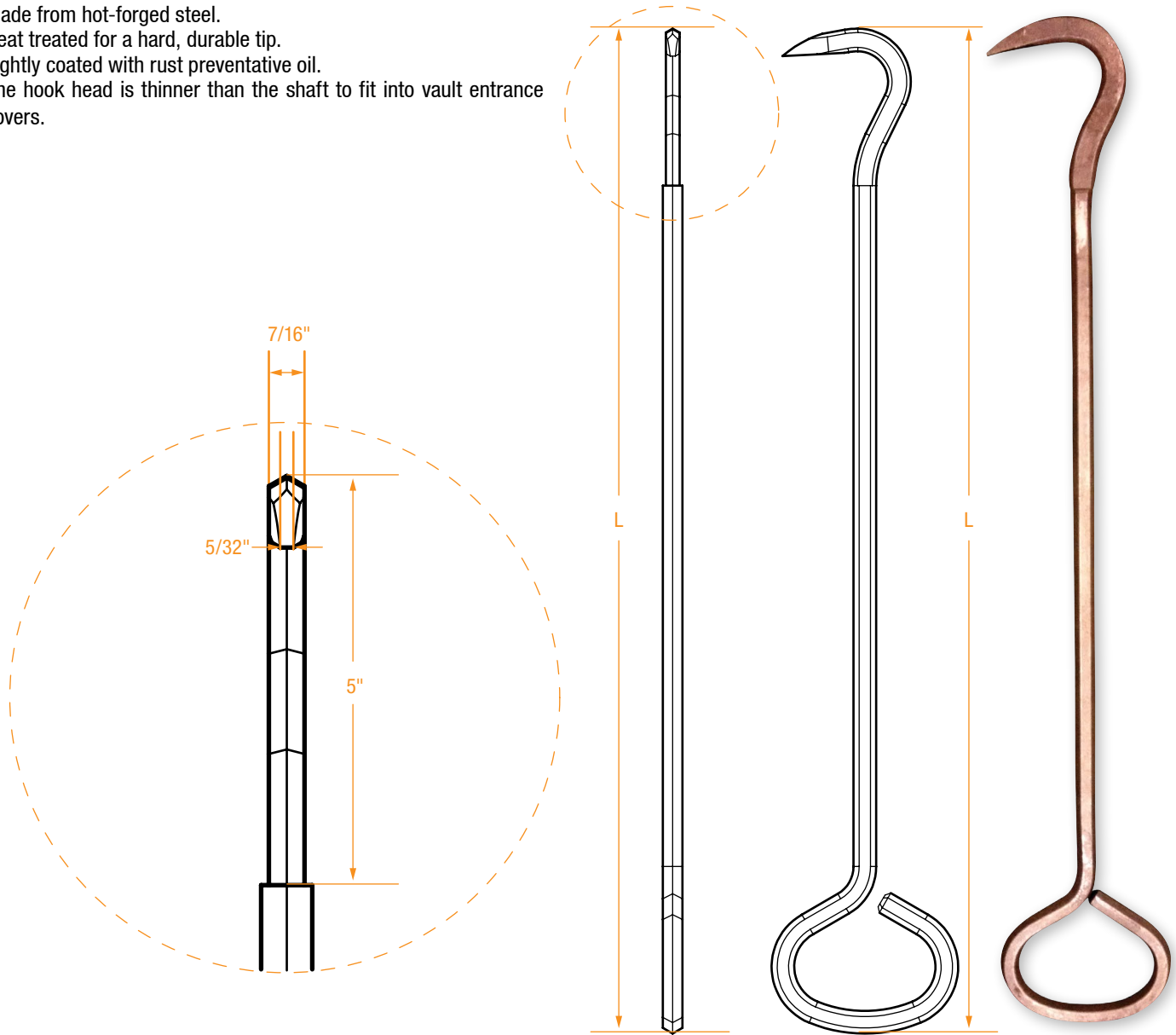
* Ends of Neutral and Ground wires can be connected to using a 4/0 crimp connector.

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.

UNDERGROUND EQUIPMENT



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.



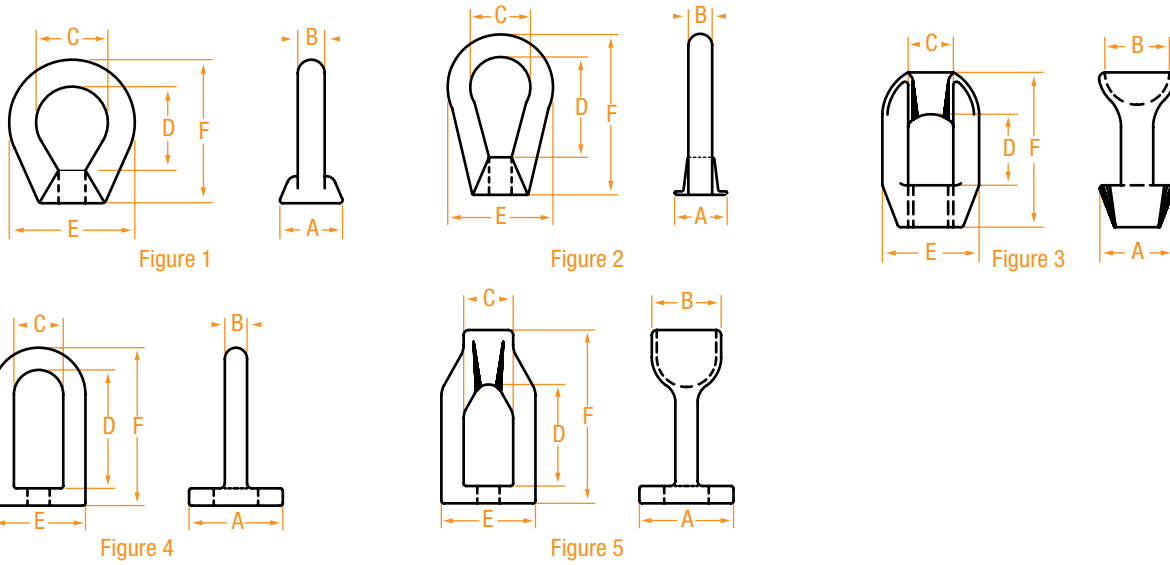
PART NUMBER	DESCRIPTION
312-1903-00	INSULATED T-WRENCH, 3/4" x 32"
312-1903-10	INSULATED T-WRENCH, 3/4"x 53 1/2"
312-1903-20	INSULATED T-WRENCH, 3/4" x 36"
312-1903-30	INSULATED T-WRENCH, 3/4" x 22"
312-1903-40	INSULATED T-WRENCH, 3/4" x 34"
312-1947-00	INSULATED T-WRENCH, 9/16" x 32"
312-1947-40	INSULATED T-WRENCH, 9/16" x 34"

Pole Line Hardware



Pole Line Hardware	Series	Page
Eyelets.....	RENUT Series.....	139
“J” Hooks.....	RJH Series.....	140
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Three-Hole Messenger Clamps.....	RSC1204 Series.....	149
Heavy-Duty Messenger Clamps.....	RHDC Series.....	150

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



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.

- Made of steel or bronze.

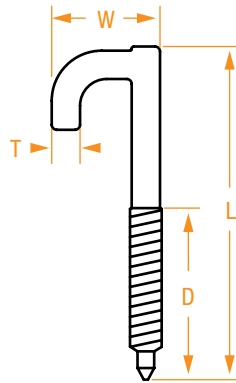


Figure 1

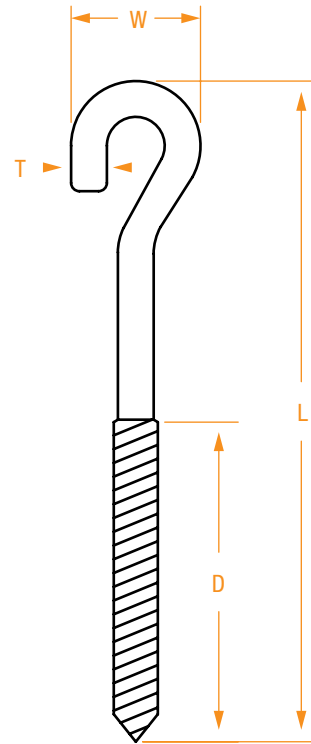
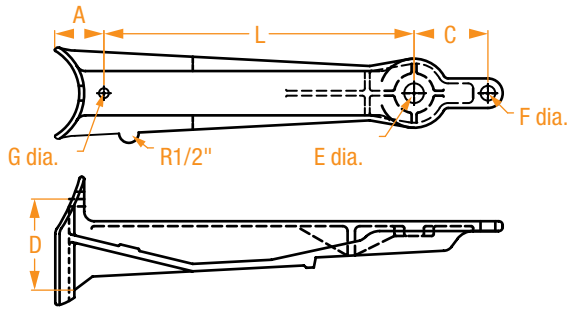


Figure 2



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

- 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.



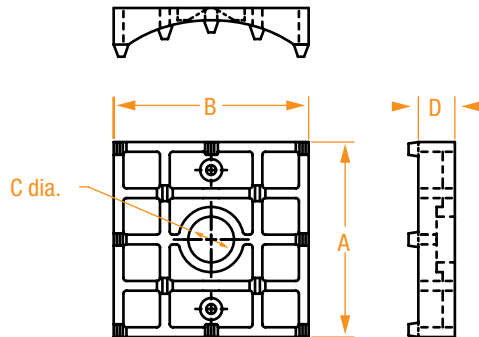
PART NUMBER	FIGURE	BOLT DIA.	DIMENSIONS IN INCHES						
			A	L	C	D	E	F	G
LPB622	1	5/8	2	15-1/2	4-1/2	4-1/2	13/16	11/16	1/2

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.

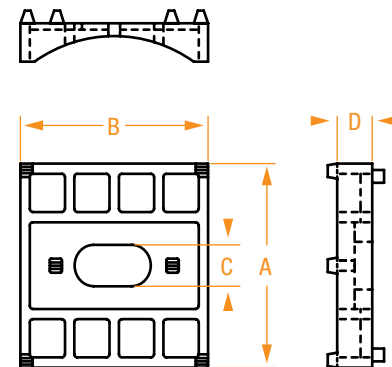


PART NUMBER	FIGURE	DIMENSIONS IN INCHES				POLE RANGE
		A	B	C	D	
RGG122	1	4	4	13/16	3/4	6-12
RGG122-15/16	1	4	4	15/16	3/4	6-12

GRID GAINS

Crossarm Gains

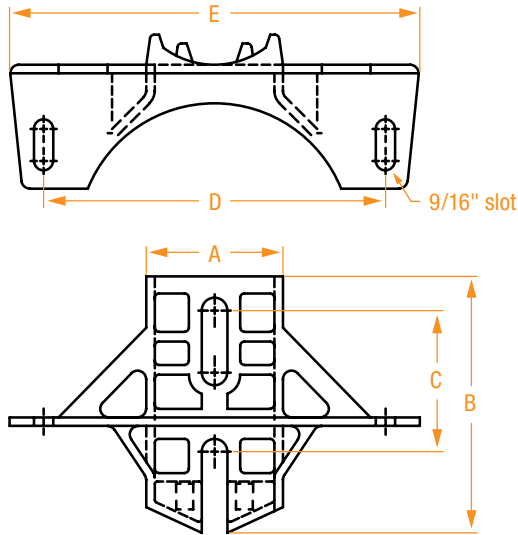
- Provides additional stability.
- Reduces leakage current.
- No wood-to-wood contact.
- Accepts a range of crossarm sizes.
- Made of malleable iron ASTMA197-47– hot-dipped galvanized.



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	3 1/2 - 5 1/2

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

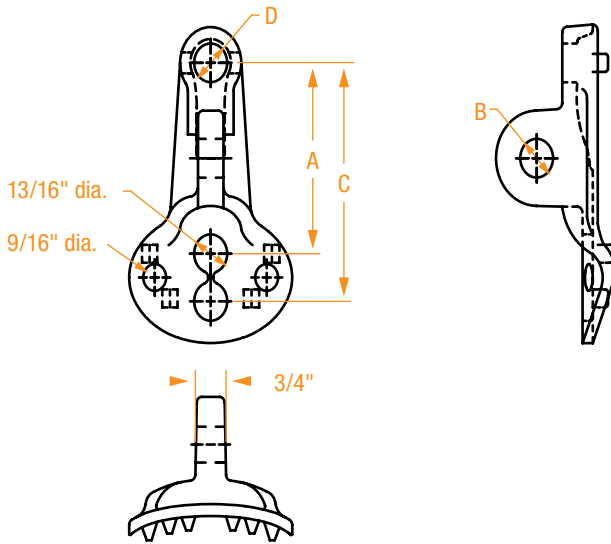
- No need for crossarm braces at capacitor and transformer installations, cable and corner poles.
- Provides additional stability.
- Improves appearance.
- Made of malleable iron ASTMA197-47– hot-dipped galvanized.



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	3 1/2 - 6 1/2
RCSG182-1	4	7-1/2	6	10	12	6-12	3/4	5/8	9/16 x 2	3 1/2 - 6 1/2

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

- 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.



POLE LINE HARDWARE

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

- 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.

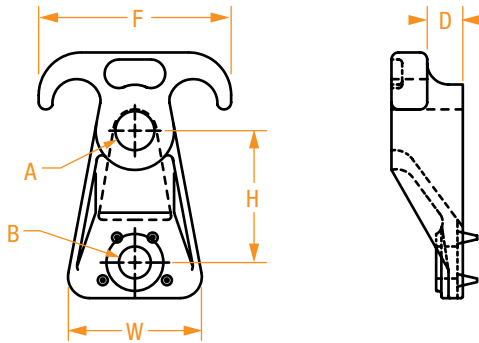


Figure 1

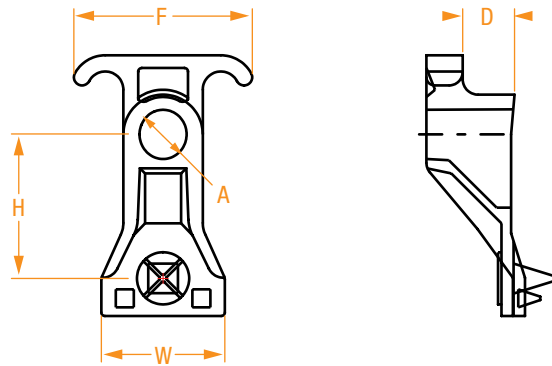


Figure 2

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	3/4	–	1-3/8
RGH135	1	2-3/4	7/8	3-3/4	–	2-1/2	5/8	1/2	1-3/8

- 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.

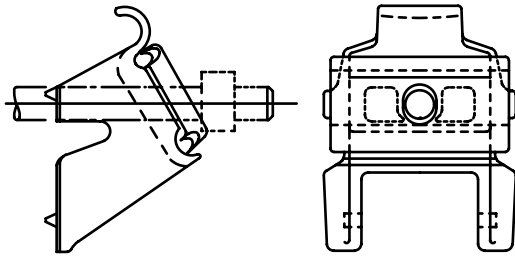


Figure 1

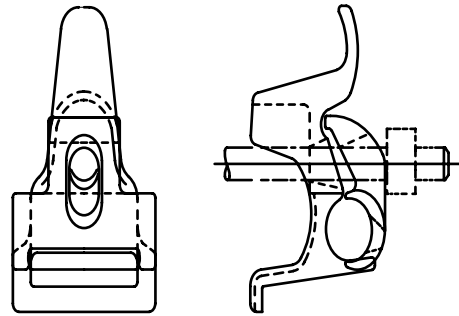
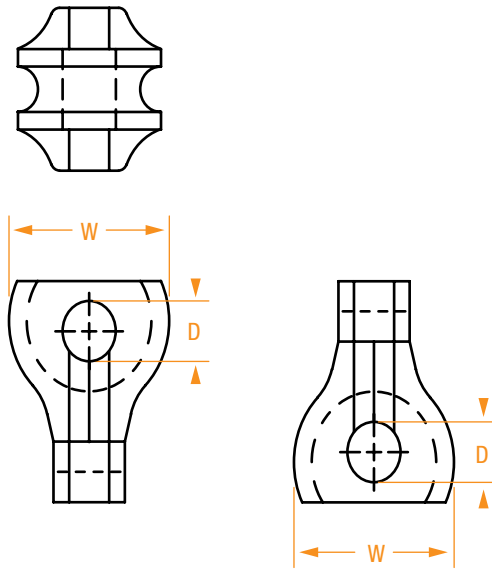


Figure 2

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

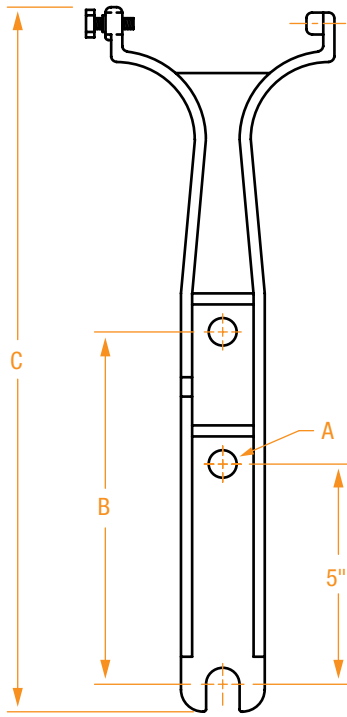
POLE LINE HARDWARE

- Designed to alleviate stress point when tying two guy wires together.
- Made of malleable iron ASTM A197-47— hot-dipped galvanized.



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

- 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

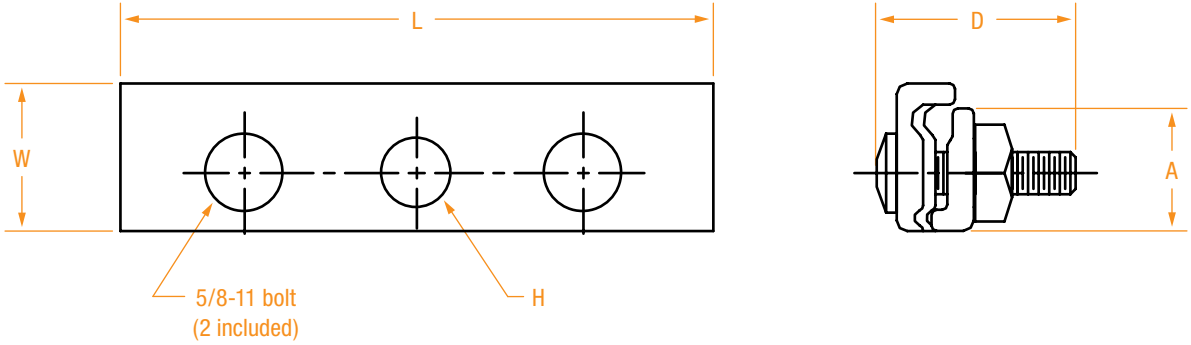
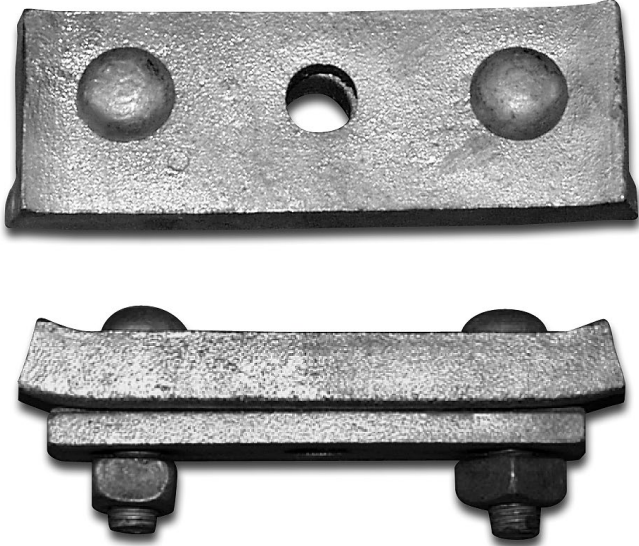
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

POLE LINE HARDWARE

THREE-HOLE MESSENGER CLAMPS

RSC1204 Series

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



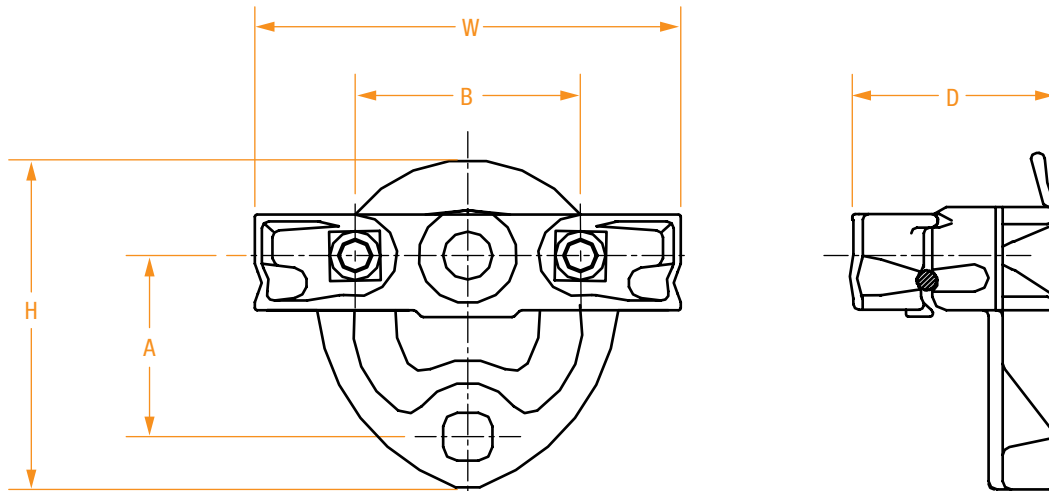
PART NUMBER	DIMENSIONS IN INCHES				
	A	H	D	L	W
RSC1204	1-7/8	13/16	2-3/8	7	2-1/4

POLE LINE HARDWARE

HEAVY-DUTY MESSENGER CLAMPS

RHDC Series

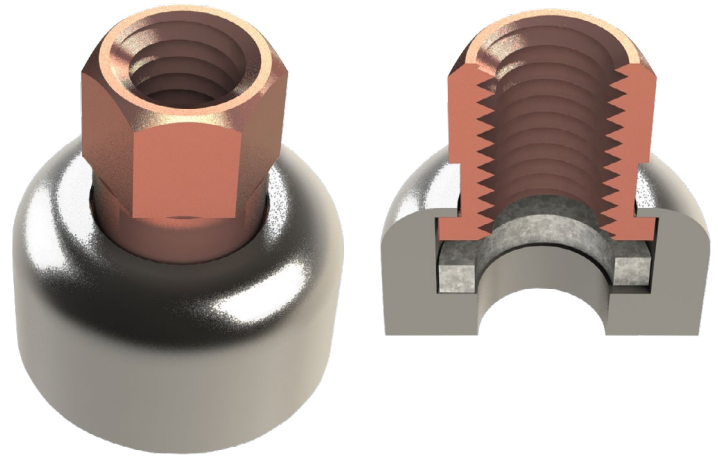
- Connects messenger cable to pole.
- Made of hot-dipped galvanized ductile iron.



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

POLE LINE HARDWARE

- Integral Hex Nut.
- Captive Lock Washer.
- Formed Housing Acts as Flat Washer.



PART NUMBER	THREAD SIZE	HEX SIZE	MATERIAL DETAILS	COMMON APPLICATION(S)
SN-1/2-SBR	1/2"-13	3/4"	Silicon Bronze Nut, Stainless Steel Housing	Outdoor Electrical Equipment
SN-1/2-ZP	1/2"-13	3/4"	Zinc Plated Steel	Indoor, Bus and Fuses
SN-3/8-GAL	3/8"-16	9/16"	Galvanized Steel	Pole Line Hardware
SN-1/4-REL	1/4"-20	Thumb Screw	Zinc Plated Steel	Network Protector Relay

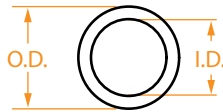
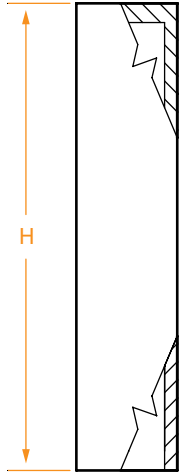
Rubber Products



Rubber Products

	Series	Page
Cable End Caps	CCAP Series	153
Insulated Connector Covers	348 Series	154
Wildlife Protectors – Plastic	RWP Series	155
Wildlife Protectors – Rubber	BG Series	156

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



PART NUMBER *	WIRE 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

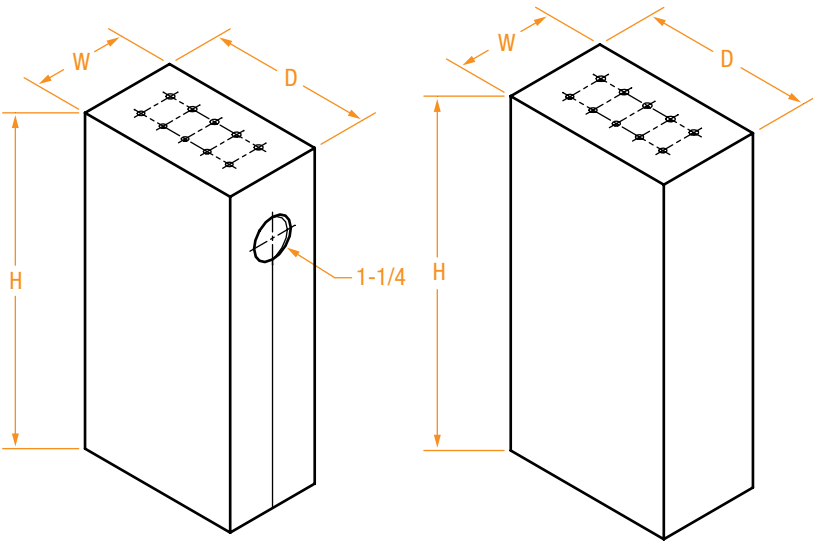
FOR OTHER SIZES, CONTACT YOUR SALES REPRESENTATIVE OR THE FACTORY.

* "-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

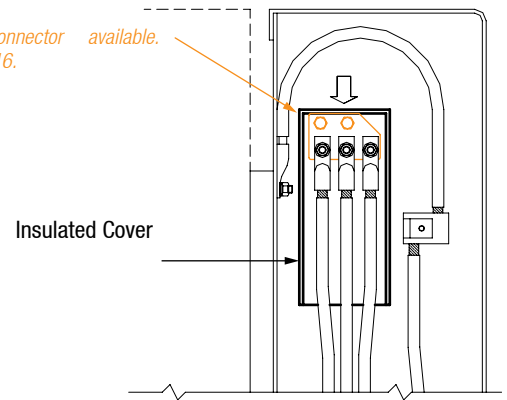
348 Series

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

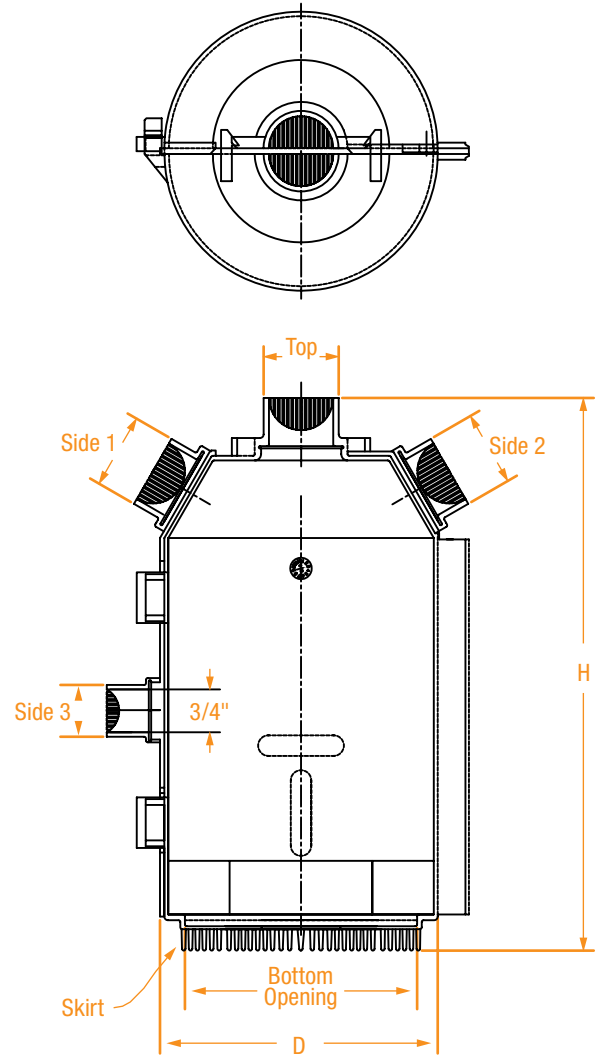


PART NUMBER	SIDE STYLE	DIMENSIONS IN INCHES		
		H	W	D
348458	Seamless	10	5	3
348311	Split	10	5	3

Pedestal Connector available. See page DE16.



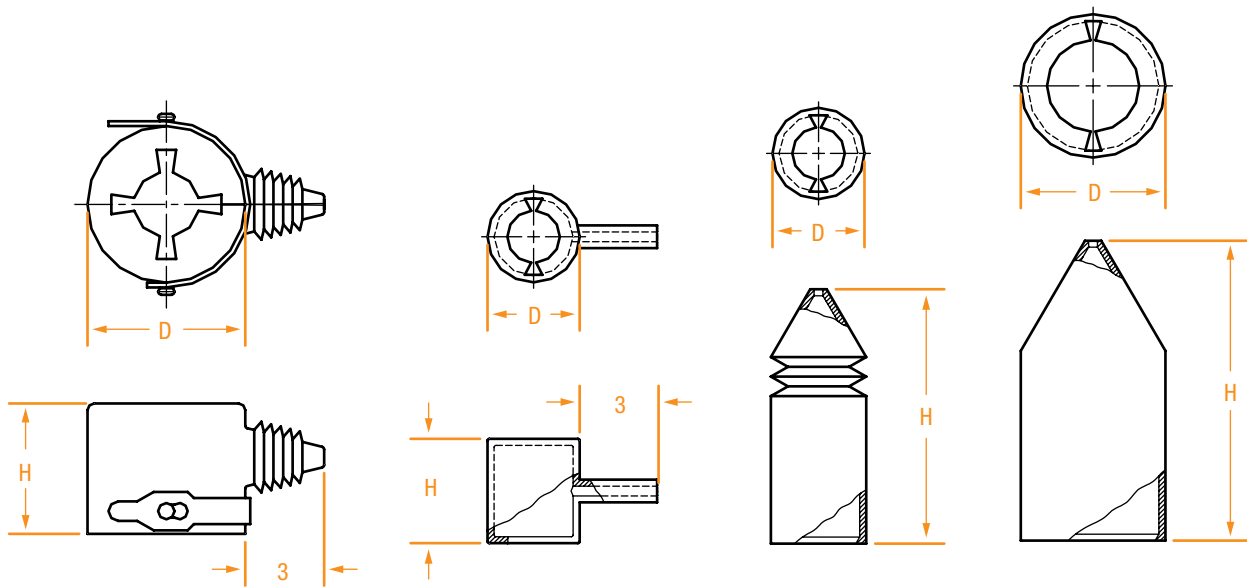
- Protects against accidental contact between wildlife and equipment bushings.
- Track resistant per ASTM D 2303-97 standard test methods for liquid-contaminant, inclined-plane tracking and erosion of insulating materials.
- Side and top snaps provide secure closure.
- Knock outs on both sides for lightning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

- 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.

003-0346	130	348458	154	ALC13	38	ALCR20-	45
003-0353	130	ACRN-5/8	90	ALC14	38	ALCR23-	45
003-0379	130	ACRN-5/8-CPS	90	ALC15	38	ALCR28-	45
003-0387	130	AHLC-18-9	74	ALC16	38	ALCR29-	45
003-0395	130	AHLC-100-TN	74	ALC18	38	ALCRCD5-3	47
003-0437	130	AHLC-300-TN	74	ALC20	38	ALCRCD7-	47
003-0445	130	AHLC-397	76	ALC23	38	ALCRCD9-	47
003-0452	130	AHLC-700	74	ALC24	38	ALCRCD10-	47
003-0460	130	AL3-1/4	5	ALC28	38	ALCRCD11-	47
003-0478	130	AL3-2N	8	ALC29	38	ALCRCD12-	47
237-1221-00	116	AL5-1/4	5	ALC30	38	ALCRCD13-	47
237-1229-00	116	AL5-2N	8	ALC31	38	ALCRCD14-	47
237-1234-10	116	AL7-1/4	5	ALC32	38	ALCRCD15-	47
237-1245-00	116	AL7-2N	8	ALCCD5	39	ALCRCD18-	47
312-1200-00	116	AL8-2N	8	ALCCD7	39	ALCRCD23-	47
312-1228-00	116	AL9	5	ALCCD8	39	ALCRCD28-	47
312-1265-00	116	AL9-2N	8	ALCCD9	39	ALCRCD29-	47
312-1268-00	114	AL9-3/8	5	ALCCD10	39	ALLS250	112
312-1269-00	114	AL10	5	ALCCD11	39	ALLS500	112
312-1270-00	116	AL10-2N	8	ALCCD12	39	ALLS750	112
312-1311-00	114	AL10-3/8	5	ALCCD13	39	ALS250	109
312-1315-00	114	AL11	5	ALCCD14	39	ALS500	109
312-1315-01	114	AL11-2N	8	ALCCD15	39	ALS750	109
312-1316-00	114	AL11-3/8	5	ALCCD16	39	ALT7	42
312-1330-00	114	AL12	5	ALCCD18	39	ALT9	42
312-1903-00	134	AL12-2N	8	ALCCD20	39	ALT9-7	42
312-1903-10	134	AL12-3/8	5	ALCCD23	39	ALT10	42
312-1903-20	134	AL13	5	ALCCD24	39	ALT10-9	42
312-1903-30	134	AL13-2N	8	ALCCD28	39	ALT11	42
312-1947-00	134	AL14	5	ALCD1-2N	10	ALT12	42
312-3100-00	122	AL14-2N	8	ALCD2	7	ALT12-10	42
312-3110-00	121	AL15	5	ALCD3	7	ALT13	42
312-3200-00	121	AL15-2N	8	ALCD3-2N	10	ALT14	42
312-3201-00	121	AL15-4N	14	ALCD5	7	ALT15	42
312-3202-00	121	AL16	5	ALCD5-2N	10	ALT15-9	42
312-3203-00	121	AL16-2N	8	ALCD7	7	ALT15-12	42
312-3204-00	121	AL16-5/8	5	ALCD7-2N	10	ALTT7	43
312-3205-00	121	AL18	5	ALCD8	7	ALTT7-5	43
312-3208-00	121	AL18-2N	8	ALCD8-2N	10	ALTT9	43
312-3209-00	121	AL18-4N	14	ALCD9	7	ALTT9-7	43
312-3211-00	121	AL18-5/8	5	ALCD9-2N	10	ALTT10	43
312-3250-00	121	AL20	5	ALCD10	7	ALTT10-7	43
312-3251-00	121	AL20-2N	8	ALCD10-2N	10	ALTT10-8	43
312-3252-00	121	AL20-5/8	5	ALCD11	7	ALTT10-9	43
312-3253-00	121	AL23	5	ALCD11-2N	10	ALTT12	43
312-3254-00	121	AL23-2N	8	ALCD12	7	ALTT12-9	43
312-3255-00	121	AL23-4N	14	ALCD12-2N	10	ALTT12-10	43
312-3260-00	121	AL23-5/8	5	ALCD13	7	ALTT14-9	43
312-3261-00	121	AL24	5	ALCD13-2N	10	ALTT14-10	43
312-3263-00	121	AL24-2N	8	ALCD14	7	ALTT15	43
312-3300-00	122	AL24-4N	14	ALCD14-2N	10	ALTT15-9	43
312-3301-00	122	AL24-5/8	6	ALCD15	7	ALTT15-10	43
312-3302-00	122	AL28	6	ALCD15-2N	10	ALTT15-12	43
312-3303-00	122	AL28-2N	8	ALCD16	7	ALTT15-14	43
312-3304-00	122	AL28-2N-W	8	ALCD16-2N	10	ALTT18	43
312-3305-00	122	AL28-4N	14	ALCD18	7	ALTT18-9	43
312-3306-00	122	AL28-5/8	6	ALCD18-2N	10	ALTT18-10	43
312-3308-00	122	AL28CR-4N	14	ALCD23-2N	10	ALTT18-12	43
312-3309-00	122	AL29-2N	8	ALCD24-2N	10	ALTT18-14	43
312-3310-00	122	AL29-4N	14	ALCD28-2N	10	ALTT18-15	43
312-3311-00	122	AL30-2N	8	ALCR7-	45	ALTT23	44
312-3500-00	122	AL31-2N	9	ALCR9-	45	ALTT23-12	44
312-3501-00	122	AL32-2N	9	ALCR10-	45	ALTT23-14	44
312-3502-00	122	ALC5	38	ALCR11-	45	ALTT23-15	44
312-3503-00	122	ALC7	38	ALCR12-	45	ALTT23-18	44
312-3506-00	122	ALC8	38	ALCR13-	45	ALTT28	44
312-3507-00	122	ALC9	38	ALCR14-	45	ALTT28-12	44
312-3508-00	122	ALC10	38	ALCR15-	45	ALTT28-14	44
312-3511-00	122	ALC11	38	ALCR16-	45	ALTT28-15	44
348311	154	ALC12	38	ALCR18-	45	ALTT28-18	44

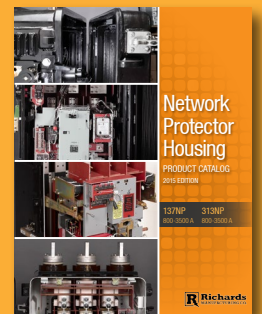
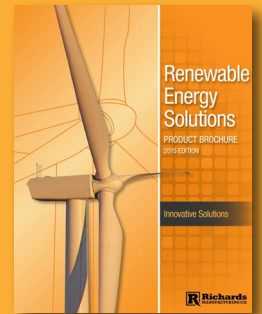
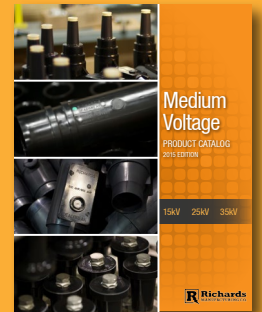
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APC5.....	77	ASLCD24-2N.....	10	CCL300.....	108	CCT16-10.....	56
APC7.....	77	ASLCD28-2N.....	10	CCL350.....	108	CCT16-13.....	56
APC10.....	77	B3CC-4N.....	30	CCL400.....	108	CCT16-14.....	56
APC11.....	77	B4CC-4N.....	30	CCL500.....	108	CCT16-15.....	56
APC12.....	77	BCASC2/0.....	79	CCL750.....	108	CCT18.....	56
APC13.....	77	BCASC2/0-45.....	79	CCLA4/0.....	107	CCT18-9.....	56
APC14.....	77	BCASC2/0-E-45.....	79	CCLA250.....	107	CCT18-10.....	56
APC15.....	77	BCASC2/0-E-W.....	79	CCLA300.....	107	CCT18-12.....	56
APC132.....	77	BCASC2/0-E-W-45.....	79	CCLA350.....	107	CCT18-13.....	56
APT7.....	13	BCASC2/0-W.....	79	CCLA400.....	107	CCT18-15.....	56
APT9.....	13	BCASC397.....	79	CCLA500.....	107	CCT18-16.....	56
APT10.....	13	BCASC397-45.....	79	CCLA750.....	107	CCT20.....	56
APT12.....	13	BCASC397-E-45.....	79	CCLA-IN-500.....	106	CCT20-10.....	56
APT15.....	13	BCASC397-E-45-L.....	79	CCLAP4/0.....	107	CCT20-12.....	56
APT18.....	13	BCASC397-L.....	79	CCLAP250.....	107	CCT20-13.....	56
APT23.....	13	BG13-8-18.....	156	CCLAP300.....	107	CCT20-18.....	56
APT28.....	13	BG30.....	156	CCLAP350.....	107	CCT23.....	56
AS4/0.....	101	BG30-12.....	156	CCLAP400.....	107	CCT23-15.....	56
AS500/3.....	101	BG30-414.....	156	CCLAP500.....	107	CCT23-18.....	56
AS500-5.....	101	BG30-EN.....	156	CCLAP750.....	107	CCT28.....	56
ASC-2/0.....	78	BG30-S.....	156	CCLP4/0.....	108	CCT28-18.....	56
ASC-500.....	78	BG554-5678.....	156	CCLP250.....	108	CCT28-20.....	56
ASC-1000.....	78	BG-RS0218.....	156	CCLP300.....	108	CCT28-23.....	56
ASL3-2N.....	8	BHLC-100.....	75	CCLP350.....	108	CJB4/0-4W.....	97
ASL5-2N.....	8	BHLC-101.....	75	CCLP500.....	108	CJB350-4W.....	97
ASL7-2N.....	8	BHLC-102.....	75	CCLP750.....	108	CJB500-4W.....	97
ASL8-2N.....	8	BHLC-201.....	75	CCR3-2.....	58	CJB500-5W.....	97
ASL9-2N.....	8	BHLC-300.....	75	CCR5.....	58	CJLP500-3W.....	103
ASL10-2N.....	8	BHLC-400.....	75	CCR7.....	58	CJLP500-5W.....	103
ASL11-2N.....	8	BHLC-401.....	75	CCR8.....	58	CJLP500-7W.....	103
ASL12-2N.....	8	BIC4/0-4W.....	98	CCR9.....	58	CJLPS500-3W.....	103
ASL13-2N.....	8	BJINT4/0-4W.....	99	CCR10.....	58	CJLPS500-5W.....	103
ASL14-2N.....	8	BSC-2/0.....	78	CCR11.....	58	CL2-1/4.....	19
ASL15-2N.....	8	CB504-0530.....	125	CCR12.....	58	CL2-1/4-P.....	27
ASL16-2N.....	8	CB570-2774.....	125	CCR13.....	58	CL2-3/8.....	19
ASL18-2N.....	8	CB183030.....	125	CCR14.....	58	CL2-5/16.....	19
ASL20-2N.....	8	CB396271.....	125	CCR15.....	58	CL3-1/4.....	19
ASL23-2N.....	8	CB396740.....	125	CCR18.....	58	CL3-1/4-P.....	27
ASL24-2N.....	8	CC3.....	52	CCR23.....	58	CL3-2N-1/4.....	21
ASL28-2N.....	8	CC4.....	52	CCR28.....	58	CL3-2N-5/16.....	21
ASL28-2N-W.....	8	CC5.....	52	CCR29.....	58	CL3-3/8.....	19
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