



Mechanical Connectors

Mechanical Lugs Verses Compression Lugs Connector Comparison Chart

The variety of connectors available can be broken down into two general categories:

- Mechanical lugs
- Compression lugs

The following chart has been prepared in an effort to clarify the difference between these two categories.

Mechanical Lugs vs Compression Lugs			
Mechanical Lugs		Compression Lugs	
<u>SLU-225-1</u> <u>LA-250-1</u>		<u>BLU-1S-1</u> <u>BLU-035D-1</u>	
Range taking and non-range taking. For pipe, cable, bar shapes etc.		Range taking and non-range taking. For cable conductors only.	
Many designs are universal for copper and aluminum.		Separate designs required for aluminum, copper, or aluminum to copper.	
Salvageable. Conductors can be removed and replaced if necessary. Wiring changes easily made.		Not salvageable. Conductor and connector must be cut off and scrapped if necessary.	
Short runs and specials easily handled by manufacturer with better delivery.		Non-standard designs and modifications may be difficult to supply.	
Taping depends on design.		Easily taped.	
Installed cost comparable on small jobs and higher on large volume jobs.		Installed cost generally lower, particularly when large quantities are involved.	
No special tools to install. Can use screwdriver, pliers, or wrench.		Special tools and dies required. If wrong tool or die is used, poor joint results.	



PennUnion™ Mechanical Connectors

Lug Tongue Connections

The tongue of a compression or a mechanical lug is, basically, a bus bar that connects to another bus bar.

The illustration to the right shows a typical bar connection and the type of hardware used.

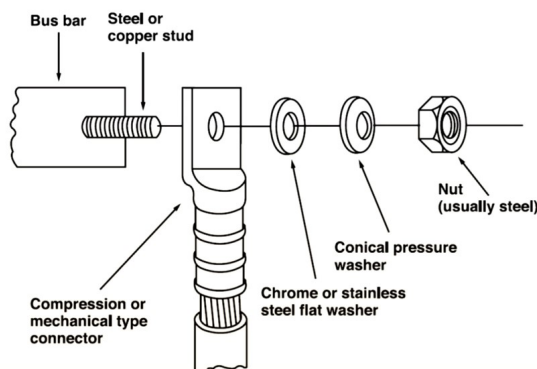


Table 1 to the right shows the recommended tightening torques for silicon bronze, stainless steel, galvanized steel, and lubricated aluminum alloy hardware.

NOTE: Torque values presently recommended by NEMA-CCI 2018 specification.

Table 1 - Tightening Torques

Bolt Diameter	Nominal Torque Values			
	Silicon Bronze, Galvanized, or Stainless Steel		Aluminum Alloy (Lubricated)	
	ft-lbs	inch-lbs	ft-lbs	inch-lbs
1/4	7	80	—	—
5/16	15	180	—	—
3/8	20	240	14	168
1/2	40	480	25	300
5/8	55	660	40	480
3/4	87	1050	54	650

For optimum efficiency, it is necessary that the correct bolt, nut, and washer combination be used with the correct combination of conductor materials. Table 2 shows acceptable methods of joining different combinations of bus bar. Where different combinations of metals are being joined, a follow-up device such as a conical pressure washer is usually recommended if one, or both, bus materials are soft drawn aluminum. If both bars are hard drawn,

large flat washers will suffice regardless of the bolt materials. Other considerations which should be taken into account when selecting hardware are corrosion and vibration. For example, if severe corrosion is anticipated, non-corrosive materials such as stainless steel or silicon bronze, should be selected in preference to galvanized steel. If vibration is anticipated, the use of locking washers should be considered.

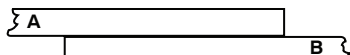


Table 2 - Joining Bus Bar Methods

If "A" bar is	Copper	Aluminum	Steel	Aluminum	Steel
And if "B" bar is	Copper	Copper	Copper	Aluminum	Aluminum
Hard Drawn Bus such as aluminum alloy 	(1) Silicon Bronze (2) Stainless Steel	(1) Silicon Bronze (2) Aluminum (3) Stainless Steel	(1) Silicon Bronze (2) Stainless Steel	(1) Aluminum (2) Stainless Steel (3) Silicon Bronze, Plated	(1) Aluminum (2) Stainless Steel
Soft Drawn Bus such as EC-H13 Aluminum 	(1) Silicon Bronze (2) Stainless Steel	(1) Silicon Bronze (2) Aluminum (3) Stainless Steel (4) Conical Pressure Washer (Plated or Stainless Steel)	(1) Silicon Bronze (2) Stainless Steel	(1) Aluminum (2) Stainless Steel (3) Silicon Bronze, Plated (4) Conical Pressure Washer (Plated or Stainless Steel)	(1) Aluminum (2) Stainless Steel (3) Conical Pressure Washer (Plated or Stainless Steel)

"(1)" denotes preferred hardware usage.



Mechanical Connectors

Standard Barrel 1-Hole Tongue with Inspection Window Copper Compression Lugs - BLU Series

Overview

Penn-Union compression connectors are made of the highest-grade materials and offer very high conductivity (low resistance) while meeting or exceeding all industry standards. Penn-Union compression connectors are certified to be installed using commonly found tools and do so without loss of agency certification. Penn-Union manufactures extremely dependable connectors at a low installed cost and its full line of compression connectors have a color-coding system that makes inspections and certified installations much simpler.

Features

- Rated for use with copper conductors
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- Color-coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 kV
- Connectors are UL Listed and CSA Certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling
- Note Versa-Crimp® is a registered trademark of HUBBELL Incorporated



BLU-1S-1



Standard Barrel 1-Hole Tongue with Inspection Window Copper Compression Lugs - BLU Series																															
Part Number	Price	Conductor Material and Conductor Size	Stud Size	Die Color Code	Installation Tool	Wire Strip Length	Voltage Rating	Number of Openings	Number of Mounting Holes	Qty	Material																				
BLU-8S14-1	\$1.50	Copper 8 AWG	#10	Red	TDM-250 or TDM-500	1/2in	35 kV	1	1	1	Tin-plated copper																				
BLU-8S15-1	\$1.50		1/4in			15/16in																									
BLU-6S-1	\$1.50	Copper 6 AWG	#10	Blue																											
BLU-6S1-1	\$1.50		1/4in																												
BLU-4S-1	\$2.00	Copper 4 AWG	#10	Gray																											
BLU-4S1-1	\$2.00		1/4in																												
BLU-2S-1	\$2.75	Copper 2 AWG	1/4in	Brown		1in																									
BLU-2S1-1	\$2.75		5/16in			3/4in																									
BLU-1S9-1	\$2.75	Copper 1 AWG	1/4in	Green		1in																									
BLU-1S-1	\$2.75		5/16in			1-1/16in																									
BLU-1S1-1	\$2.75		3/8in			1in																									
BLU-1/0S-1	\$3.50	Copper 1/0 AWG	5/16in	Pink																											
BLU-1/0S1-1	\$3.50		3/8in	1-1/16in																											
BLU-2/0S-21-1	\$3.75	Copper 2/0 AWG	5/16in									Black																			
BLU-2/0S-1	\$3.75		3/8in	1-1/8in																											
BLU-3/0S-1	\$4.25	Copper 3/0 AWG	3/8in									Orange																			
BLU-3/0S1-1	\$4.25		1/2in	1-3/16in																											
BLU-4/0S-1	\$4.25	Copper 4/0 AWG	3/8in									Purple																			
BLU-4/0S1-1	\$4.25		1/2in	1-1/4in																											
BLU-025S2-1	\$8.25	Copper 250 MCM	3/8in									TDM-500																			
BLU-025S-1	\$8.25		1/2in																												
BLU-030S-7-1	\$10.50	Copper 300 MCM	3/8in																	White											
BLU-030S-1	\$10.50		1/2in																												
BLU-035S1-1	\$10.50	Copper 350 MCM	3/8in																	Red											
BLU-035S-1	\$10.50		1/2in																												
BLU-040S-4-1	\$12.75	Copper 400 MCM	1/2in																	Blue											
BLU-040S-1	\$12.75		5/8in																												
BLU-050S2-1	\$14.75	Copper 500 MCM	1/2in																	Brown											
BLU-050S-1	\$14.75		5/8in																												

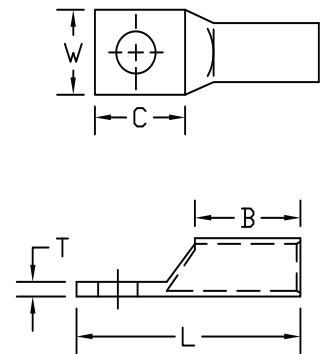


Mechanical Connectors

Standard Barrel 1-Hole Tongue with Inspection Window Copper Compression Lugs - BLU Series

Standard Barrel 1-Hole Tongue Copper Compression Lugs - BLU Series Dimensions

Part Number	Approximate Dimensions in [mm]					Drawing Link
	W	C	T	B	L	
BLU-8S14-1	0.37 [9.39]	0.50 [12.70]	0.08 [2.03]	0.41 [10.41]	1.09 [27.68]	PDF
BLU-8S15-1	0.37 [9.39]	0.56 [14.22]	0.08 [2.03]	0.41 [10.41]	1.14 [28.95]	PDF
BLU-6S-1	0.41 [10.41]	0.53 [13.46]	0.09 [2.28]	0.81 [20.57]	1.51 [38.35]	PDF
BLU-6S1-1	0.41 [10.41]	0.69 [17.52]	0.09 [2.28]	0.81 [20.57]	1.67 [42.41]	PDF
BLU-4S-1	0.48 [12.19]	0.56 [14.22]	0.09 [2.28]	0.81 [20.57]	1.61 [40.89]	PDF
BLU-4S1-1	0.48 [12.19]	0.69 [17.52]	0.09 [2.28]	0.81 [20.57]	1.67 [42.41]	PDF
BLU-2S-1	0.59 [14.98]	0.69 [17.52]	0.11 [2.79]	0.88 [22.35]	1.73 [43.94]	PDF
BLU-2S1-1	0.59 [14.98]	0.75 [19.05]	0.11 [2.79]	0.88 [22.35]	1.86 [47.24]	PDF
BLU-1S9-1	0.67 [17.01]	0.56 [14.22]	0.11 [2.79]	0.62 [15.74]	1.42 [36.06]	PDF
BLU-1S-1	0.67 [17.01]	0.75 [19.05]	0.11 [2.79]	0.88 [22.35]	1.86 [47.24]	PDF
BLU-1S1-1	0.67 [17.01]	0.87 [22.09]	0.11 [2.79]	0.94 [23.87]	2.05 [52.07]	PDF
BLU-1/0S-1	0.73 [18.54]	0.87 [22.09]	0.12 [3.04]	0.88 [22.35]	2.05 [52.07]	PDF
BLU-1/0S1-1	0.73 [18.54]	0.87 [22.09]	0.12 [3.04]	0.88 [22.35]	2.05 [52.07]	PDF
BLU-2/0S-21-1	0.81 [20.57]	0.81 [20.57]	0.12 [3.04]	0.94 [23.87]	2.06 [52.32]	PDF
BLU-2/0S-1	0.81 [20.57]	0.87 [22.09]	0.12 [3.04]	0.94 [23.87]	2.11 [53.59]	PDF
BLU-3/0S-1	0.89 [22.60]	0.87 [22.09]	0.12 [3.04]	1.00 [25.4]	2.25 [57.15]	PDF
BLU-3/0S1-1	0.89 [22.60]	1.12 [28.44]	0.12 [3.04]	1.00 [25.4]	2.50 [63.5]	PDF
BLU-4/0S-1	1.00 [25.4]	0.87 [22.09]	0.14 [3.55]	1.00 [25.4]	2.31 [58.67]	PDF
BLU-4/0S1-1	1.00 [25.4]	1.09 [27.68]	0.14 [3.55]	1.00 [25.4]	2.50 [63.5]	PDF
BLU-025S2-1	1.09 [27.68]	1.13 [28.70]	0.15 [3.81]	1.06 [26.92]	2.69 [68.32]	PDF
BLU-025S-1	1.09 [27.68]	1.13 [28.70]	0.15 [3.81]	1.06 [26.92]	2.69 [68.32]	PDF
BLU-030S-7-1	1.19 [30.22]	1.09 [27.68]	0.16 [4.06]	1.06 [26.92]	2.5 [63.5]	PDF
BLU-030S-1	1.19 [30.22]	1.09 [27.68]	0.16 [4.06]	1.06 [26.92]	2.75 [69.85]	PDF
BLU-035S1-1	1.28 [32.51]	0.88 [22.35]	0.17 [4.31]	1.13 [28.70]	2.63 [66.80]	PDF
BLU-035S-1	1.25 [31.75]	1.16 [29.46]	0.17 [4.31]	1.13 [28.70]	2.91 [73.91]	PDF
BLU-040S-4-1	1.39 [35.30]	1.19 [30.22]	0.19 [4.82]	1.19 [30.22]	3.06 [77.72]	PDF
BLU-040S-1	1.39 [35.30]	1.44 [36.57]	0.19 [4.82]	1.13 [28.70]	3.31 [84.07]	PDF
BLU-050S2-1	1.53 [38.86]	1.13 [28.70]	0.21 [5.33]	1.38 [35.05]	3.28 [83.31]	PDF
BLU-050S-1	1.53 [38.86]	1.44 [36.57]	0.21 [5.33]	1.38 [35.05]	3.63 [92.20]	PDF



Penn-Union™ Mechanical Connectors

Standard Barrel 2-Hole Tongue with Inspection Window Copper Compression Lugs BLU Series

Overview

Penn-Union compression connectors are made of the highest-grade materials and offer very high conductivity (low resistance) while meeting or exceeding all industry standards. Penn-Union compression connectors are certified to be installed using commonly found tools and do so without loss of agency certification. Penn-Union manufactures extremely dependable connectors at a low installed cost and its full line of compression connectors have a color-coding system that makes inspections and certified installations much simpler.

Features

- Rated for use with copper conductors
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- Color-coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 kV
- Connectors are UL Listed and CSA Certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling
- Note Versa-Crimp® is a registered trademark of HUBBELL Incorporated



BLU-035D-1



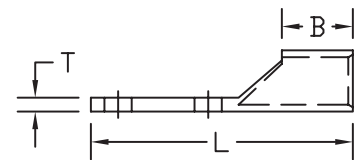
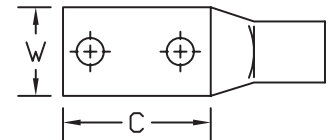
Standard Barrel 2-Hole Tongue with Inspection Window Copper Compression Lugs - BLU Series												
Part Number	Price	Conductor Material and Conductor Size	Stud Size	Stud Hole Spacing	Die Color Code	Installation Tool	Wire Strip Length	Voltage Rating	Number of Openings	Number of Mounting Holes	Qty	Material
BLU-8D-2TC14-1	\$4.75	Copper 8 AWG	1/4in	0.63in	Red	TDM-250 or TDM-500	1/2in	35 kV	1	2	1	Tin-plated copper
BLU-8D-2TC14E2-1	\$4.75			0.75in			15/16in					
BLU-6D-2TC14-1	\$5.00	Copper 6 AWG	1/4in	0.63in	Blue							
BLU-6D-2TC14E1-1	\$5.00			1.00in								
BLU-4D-2TC14E1-1	\$5.75	Copper 4 AWG	1/4in	1.00in	Gray							
BLU-4D-2TC38-1	\$5.75		3/8in	1.00in								
BLU-2D-2TC14-1	\$6.50	Copper 2 AWG	1/4in	0.63in	Brown		1in					
BLU-2D-2TC38-1	\$6.50		3/8in	1.00in								
BLU-1D-2TC14-1	\$7.25	Copper 1 AWG	1/4in	0.63in	Green		1-1/16in					
BLU-1D-2TC516E6-1	\$7.25		5/16in	0.88in								
BLU-1/0D-2TC14-1	\$8.50	Copper 1/0 AWG	1/4in	0.63in	Pink		1in					
BLU-1/0D-2TC38-1	\$8.50		3/8in	1.00in								
BLU-1/0D2-1	\$8.50		1/2in	1.75in								
BLU-2/0D-2TC38-1	\$9.25	Copper 2/0 AWG	3/8in	1.00in	Black		1-1/16in					
BLU-2/0D-1	\$9.25		1/2in	1.75in								
BLU-3/0D-2TC38-1	\$9.75	Copper 3/0 AWG	3/8in	1.00	Orange		1-1/8in					
BLU-3/0D-1	\$9.75		1/2in	1.75in								
BLU-4/0D-2TC38-1	\$10.00	Copper 4/0 AWG	3/8in	1.00	Purple		1-3/16in					
BLU-4/0D-1	\$10.00		1/2in	1.75in								
BLU-025D-2TC38-1	\$10.50	Copper 250 MCM	3/8in	1.00	Yellow							
BLU-025D-1	\$10.50		1/2in	1.75in								
BLU-030D-2TC38-1	\$15.00	Copper 300 MCM	3/8in	1.00	White	1-1/4in						
BLU-030D-1	\$15.00		1/2in	1.75in								
BLU-035D-2TC38-1	\$16.00	Copper 350 MCM	3/8in	1.00	Red							
BLU-035D-1	\$16.00		1/2in	1.75in								
BLU-040D-2TC38-1	\$16.00	Copper 400 MCM	3/8in	1.00	Blue	1-5/16in						
BLU-040D-1	\$16.00		1/2in	1.75in								
BLU-050D-2TC38-1	\$18.50	Copper 500 MCM	3/8in	1.00	Brown	1-1/2in						
BLU-050D-1	\$18.50		1/2in	1.75in								



Mechanical Connectors

Standard Barrel 2-Hole Tongue with Inspection Window Copper Compression Lugs - BLU Series

Standard Barrel 2-Hole Tongue Copper Compression Lugs - BLU Series Dimensions						
Part Number	Approximate Dimensions in [mm]					Drawing Link
	W	C	T	B	L	
BLU-8D-2TC14-1	0.41 [10.41]	1.22 [30.98]	0.08 [2.03]	0.41 [10.41]	1.78 [45.21]	PDF
BLU-8D-2TC14E2-1	0.41 [10.41]	1.36 [34.54]	0.08 [2.03]	0.41 [10.41]	1.88 [47.75]	PDF
BLU-6D-2TC14-1	0.41 [10.41]	1.22 [30.98]	0.09 [2.28]	0.81 [20.57]	2.25 [57.15]	PDF
BLU-6D-2TC14E1-1	0.41 [10.41]	1.61 [40.89]	0.09 [2.28]	0.81 [20.57]	2.67 [67.81]	PDF
BLU-4D-2TC14E1-1	0.50 [12.70]	1.61 [40.89]	0.09 [2.28]	0.81 [20.57]	2.68 [68.07]	PDF
BLU-4D-2TC38-1	0.61 [15.49]	1.81 [45.97]	0.08 [2.03]	0.81 [20.57]	2.87 [72.89]	PDF
BLU-2D-2TC14-1	0.59 [14.98]	1.22 [30.98]	0.11 [2.79]	0.88 [22.35]	2.32 [58.92]	PDF
BLU-2D-2TC38-1	0.59 [14.98]	1.83 [46.48]	0.11 [2.79]	0.88 [22.35]	2.96 [75.18]	PDF
BLU-1D-2TC14-1	0.67 [17.01]	1.22 [30.98]	0.10 [2.54]	0.94 [23.87]	2.41 [61.21]	PDF
BLU-1D-2TC516E6-1	0.67 [17.01]	1.62 [41.14]	0.10 [2.54]	0.94 [23.87]	2.79 [70.86]	PDF
BLU-1/0D-2TC14-1	0.74 [18.79]	1.22 [30.98]	0.11 [2.79]	0.88 [22.35]	2.44 [61.97]	PDF
BLU-1/0D-2TC38-1	0.74 [18.79]	1.83 [46.48]	0.11 [2.79]	0.88 [22.35]	3.02 [76.70]	PDF
BLU-1/0D2-1	0.82 [20.82]	2.82 [71.62]	0.10 [2.54]	0.89 [22.60]	3.98 [101.09]	PDF
BLU-2/0D-2TC38-1	0.82 [20.82]	1.83 [46.48]	0.12 [3.04]	0.94 [23.87]	3.08 [78.23]	PDF
BLU-2/0D-1	0.82 [20.82]	2.88 [73.15]	0.12 [3.04]	0.94 [23.87]	4.13 [104.90]	PDF
BLU-3/0D-2TC38-1	0.89 [22.60]	1.83 [46.48]	0.13 [3.30]	1.00 [25.40]	3.24 [82.29]	PDF
BLU-3/0D-1	0.89 [22.60]	2.88 [73.15]	0.13 [3.30]	1.00 [25.40]	4.25 [107.95]	PDF
BLU-4/0D-2TC38-1	1.00 [25.40]	1.83 [46.48]	0.14 [3.55]	1.00 [25.40]	3.30 [83.82]	PDF
BLU-4/0D-1	1.00 [25.40]	2.88 [73.15]	0.14 [3.55]	1.00 [25.40]	4.31 [109.47]	PDF
BLU-025D-2TC38-1	1.09 [27.68]	1.83 [46.48]	0.16 [4.06]	1.06 [26.92]	3.43 [87.12]	PDF
BLU-025D-1	1.09 [27.68]	2.88 [73.15]	0.16 [4.06]	1.06 [26.92]	4.44 [112.77]	PDF
BLU-030D-2TC38-1	1.19 [30.22]	1.83 [46.48]	0.16 [4.06]	1.06 [26.92]	3.50 [88.90]	PDF
BLU-030D-1	1.19 [30.22]	2.88 [73.15]	0.16 [4.06]	1.06 [26.92]	4.50 [114.30]	PDF
BLU-035D-2TC38-1	1.28 [32.51]	1.83 [46.48]	0.17 [4.31]	1.13 [28.70]	3.61 [91.69]	PDF
BLU-035D-1	1.28 [32.51]	2.88 [73.15]	0.17 [4.31]	1.13 [28.70]	4.63 [117.60]	PDF
BLU-040D-2TC38-1	1.39 [35.30]	1.83 [46.48]	0.19 [4.82]	1.19 [30.22]	3.74 [94.99]	PDF
BLU-040D-1	1.39 [35.30]	2.88 [73.15]	0.19 [4.82]	1.19 [30.22]	4.75 [120.65]	PDF
BLU-050D-2TC38-1	1.53 [38.86]	1.83 [46.48]	0.21 [5.33]	1.38 [35.05]	3.99 [101.34]	PDF
BLU-050D-1	1.53 [38.86]	2.88 [73.15]	0.21 [5.33]	1.38 [35.05]	5.00 [127.00]	PDF





Mechanical Connectors

Hand-Operated Crimp Tools

Overview

The hand-operated crimp tools are designed for easy use especially in confined spaces and bench top use. The unique telescopic handle design (TDM) provides increased leverage when needed. The TDM series crimp tools are designed to make the perfect crimp every time using the BLU series compression lugs.

Features

- Dieless - no dies to buy or lose
- Compression connectors are UL listed and CSA certified when installed in accordance with manufacturer's installation instructions
- Quality durable steel
- Easily adjustable tool settings
- Easy-to-read settings are provided on calibrated index plates, one for AL and one for CU, located on the side of the tool
- Small head is convenient in confined areas

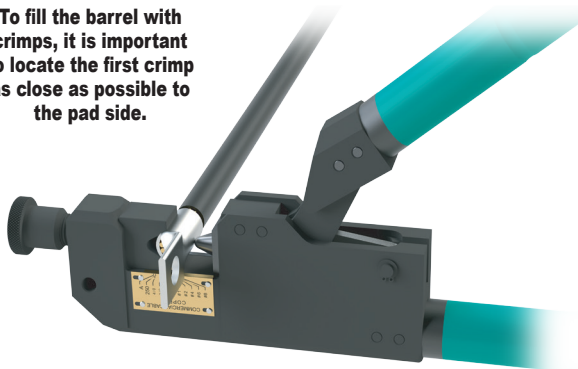


TDM-250

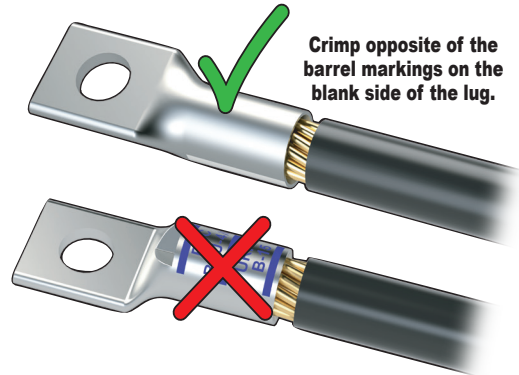
Hand - Operated Crimp Tools								
Part Number	Price	Qty	Type	Crimp Profile	Wire Range	Overall Length	Weight	Material
<u>TDM-250</u>	\$361.25	1	Telescopic handle with rubberized non-slip grip	Indent	8 AWG-250 MCM copper and 8-4AWG aluminum	26.0in [660mm]	9.5 lbs	Steel
<u>TDM-500</u>	\$506.25				8 AWG-500 MCM copper and aluminum	27.4in [696mm]	9.9 lbs	

Crimp Tools Instructions

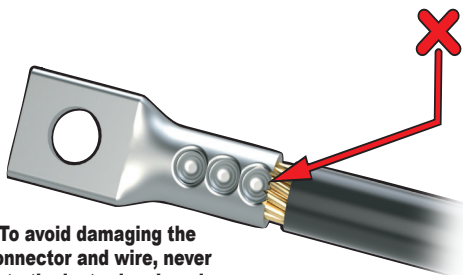
To fill the barrel with crimps, it is important to locate the first crimp as close as possible to the pad side.



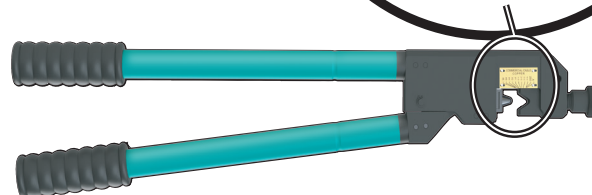
Crimp opposite of the barrel markings on the blank side of the lug.



To avoid damaging the connector and wire, never locate the last crimp hanging off the edge of the lug.



Crimp mark set to 4/0





PennUnion™ Mechanical Connectors

Standard Installation Instructions for Copper Compression Lugs - BLU Series

Of all the methods used to make electrical connections, compression of the connector onto the cable with some type of compression tool is considered by most installers to be the most permanent of the common connection methods.

To maintain Underwriters Laboratories listing (UL) or Canadian Standards Association certification (CSA) for a completed compression connection, it is necessary to use the installation tools and installation methods which have been qualified for the connectors by those organizations during the listing/certification processes.

This information is supplied by Penn-Union in the form of an insert/stuffer sheet, available in the packaging of each part number.

Information Found in the Penn-Union Inserts

[illegible]

Insert Page 1

1	UL POWER rating: UL 486A, CSA C22.2 NO. 65
2	List of part numbers covered by insert
3	List of cables that can be used with lug series
4	Stripping length per lug series
5	DIE color code (indicated on the lug)
6	Tools that retain UL power and UL/CSA Ground/Bond and Direct Burial ratings
7	Tools that retain UL Power ratings only
8	UL/CSA Grounding and Bonding and Direct Burial: UL 467, CSA C22.2 NO.41
9	List of additional related crimping tools
10	Instructions on how to crimp the connector
11	Note: Connectors are not UL/CSA for Ground and Bonding when installed with Ilco IVTB-6 or Rigid RE-6 tools
12	Representative image of crimp locations on the connector barrel

Insert Page 2

13	Connector Series
14	Versa-Crimp ® tool wire range
15	List of Vesa-Crimp Tools, connector types per tool type and number of crimps
16	Number of crimps: For Example 2 = two crimps on the barrel 3 O'LAP = 3 overlapping crimps on the barrel
17	List of additional related tools

[illegible]



Mechanical Connectors

Wire Size Recommendations for Copper Compression Lugs - BLU Series

	UL CSA	UL CSA	UL CSA	UL CSA	UL CSA	UL CSA	UL CSA	UL CSA		
Copper Connector 1 & 2 Hole Lugs Size	Class B&C Building Wire CU Cable Size & Stranding	Class I Weld Cable (#24 AWG CU Strands) Size & Stranding	Class K Weld Cable (#30 AWG CU Strands) Size & Stranding	Diesel Locomotive Cable (#24 AWG CU Strands) Size & Stranding	Class H Cable (NO. & DIA. of Wire) Size & Stranding	Class G Cable (NO. & DIA. of Wire) Size & Stranding	Class M Flexible Cable (#34 AWG CU Strands) Size & Stranding	Metric Cable Wire Size Range Copper Cable Only Metric Size & Dia.	Navy Cable	Air Craft
8 AWG	#8 AWG 7 or 19	#8 AWG 41 / 24	None	None	#8 AWG 133 / 0.0111	#8 AWG 49 / 0.0184	#8 AWG 420 / 34	6mm ² 3.21mm	#23	AN-8
6 AWG	#6 AWG 7 or 19	#6 AWG 63 / 24	None	None	#7 AWG 133 / 0.0125	#7 AWG 49 / 0.0206	#7 AWG 532 / 34	10mm ² 4.12mm	None	None
5 AWG	#5 AWG 7 or 19	None	None	None	#6 AWG 133 / 0.0140	#6 AWG 49 / 0.0231	#6 AWG 665 / 34	16mm ² 5.18mm	#30	AN-6
4 AWG	#4 AWG 7 or 19	None	None	None	#5 AWG 133 / 0.0158	#5 AWG 49 / 0.0260	#5 AWG 836 / 34	20mm ² 5.72mm	#40	None
3 AWG	#3 AWG 7 or 19	#4 AWG 105 / 24	#4 AWG 420 / 30	#4 AWG 105 / 24	#4 AWG 133 / 0.0177	#4 AWG 49 / 0.0292	#4 AWG 1064 / 34	25mm ² 6.60mm	#50	AN-4
2 AWG	#2 AWG 7 or 19	None	None	None	#3 AWG 133 / 0.0199	#3 AWG 49 / 0.0328	#3 AWG 1323 / 34	30mm ² 7.01mm	#60	None
1 AWG	#1 AWG 19 or 37	#2 AWG 161 / 24	#2 AWG 665 / 30	#2 AWG 150 / 24	#2 AWG 133 / 0.0223	#2 AWG 49 / 0.0368	#2 AWG 1666 / 34	40mm ² 8.20mm	#75	AN-2
1/0 AWG	#1/0 AWG 19 or 37	None	#1 AWG 836 / 30	#1 AWG 225 / 24	#1 AWG 259 / 0.0180	#1 AWG 133 / 0.0251	#1 AWG 2107 / 34	50mm ² 9.27mm	#100	AN-1
2/0 AWG	#2/0 AWG 19 or 37	#1/0 AWG 266 / 24	#1/0 AWG 1064 / 30	#1/0 AWG 275 / 24	#1/0 AWG 259 / 0.0202	#1/0 AWG 133 / 0.0282	#1/0 AWG 2646 / 34	70mm ² 10.92mm	#125	AN-1/0
3/0 AWG	#3/0 AWG 19 or 37	#2/0 AWG 342 / 24	#2/0 AWG 1323 / 30	#2/0 AWG 325 / 24	#2/0 AWG 259 / 0.0227	#2/0 AWG 133 / 0.0316	None	85mm ² 11.94mm	#150	None
4/0 AWG	#4/0 AWG 19 or 37	None	#3/0 AWG 1666 / 30	#3/0 AWG 450 / 24	#3/0 AWG 259 / 0.0255	#3/0 AWG 133 / 0.0355	#2/0 AWG 3325 / 34	95mm ² 12.8mm	#200	AN 2/0
250 MCM	250 MCM 37 or 61	None	None	None	None	None	#3/0 AWG 4256 / 34	120mm ² 14.4mm	None	None
350 MCM	350 MCM 37 or 61	None	None	262 MCM 650 / 24	250 MCM 427 / 0.0242	250 MCM 259 / 0.0311	None	180mm ² 17.42mm	#350	None
400 MCM	400 MCM 37 or 61	None	None	313 MCM 775 / 24	300 MCM 427 / 0.0265	250 MCM 259 / 0.0340	250 MCM 6384 / 34	185mm ² 17.80mm	#4000	None
500 MCM	500 MCM 37 or 61	350 MCM 882 / 24	None	373 MCM 925 / 24	400 MCM 427 / 0.0306	400 MCM 259 / 0.0393	350 MCM 8806 / 34	240mm ² 20.30mm	None	None