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Note: Dimensions correct at time of printing. Contact factory for any critical dimension.

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PENN-SHRINK CLEAR - TYPE PSC

Flexible, general purpose polyolefin tubing



Applications

Designed to provide superior mechanical (abrasion, cut-through, and strain relief), thermal, and fluid-resistance performance in demanding environments. Widely used to provide insulation and strain relief of wire terminations and connections. Used for jacketing wire bundles and light-duty harnesses where superior abrasion resistance is a plus.

Operating Temperature Range

-55°C to 135°C

Features/Benefits

- 2:1 shrink ratio.
- Superior abrasion and solvent resistance when compared with that of many flexible, general purpose polyolefin tubings.
- Excellent physical, chemical, and electrical properties that meet or exceed industrial and military standards for highly reliable, general purpose tubing.
- Flexible; conforms to irregular shapes.

Installation

Minimum shrink temperature: 95°C

Minimum full recovery temperature: 121°C

Specifications/Approvals

Series Military
PSC SAE-AMS-DTL-23053/5, Class 2
VG 95343 Pt 5 Type 8
*Formerly MIL-I-23053/5.

Production Dimensions (Inches)

| Part Number | Size | Length (Inches) | Inside diameter | | Wall thickness Recovered after heating** |
|-------------|-------|-----------------|------------------------------|---------------------------------|------------------------------------------|
| | | | Minimum expanded as supplied | Maximum recovered after heating | |
| PSC18-6 | 1/8 | 6 | .125 | .062 | .020 |
| PSC18-48 | 1/8 | 48 | .125 | .062 | .020 |
| PSC14-6 | 1/4 | 6 | .250 | .125 | .025 |
| PSC14-48 | 1/4 | 48 | .250 | .125 | .025 |
| PSC38-6 | 3/8 | 6 | .375 | .187 | .025 |
| PSC38-48 | 3/8 | 48 | .375 | .187 | .025 |
| PSC12-6 | 1/2 | 6 | .500 | .250 | .025 |
| PSC12-48 | 1/2 | 48 | .500 | .250 | .025 |
| PSC34-6 | 3/4 | 6 | .750 | .375 | .030 |
| PSC34-48 | 3/4 | 48 | .750 | .375 | .030 |
| PSC100-6 | 1 | 6 | 1.00 | .500 | .035 |
| PSC100-48 | 1 | 48 | 1.00 | .500 | .035 |
| PSC112-6 | 1-1/2 | 6 | 1.500 | .750 | .040 |
| PSC112-48 | 1-1/2 | 48 | 1.500 | .750 | .040 |
| PSC200-6 | 2 | 6 | 2.000 | 1.00 | .045 |
| PSC200-48 | 2 | 48 | 2.000 | 1.00 | .045 |

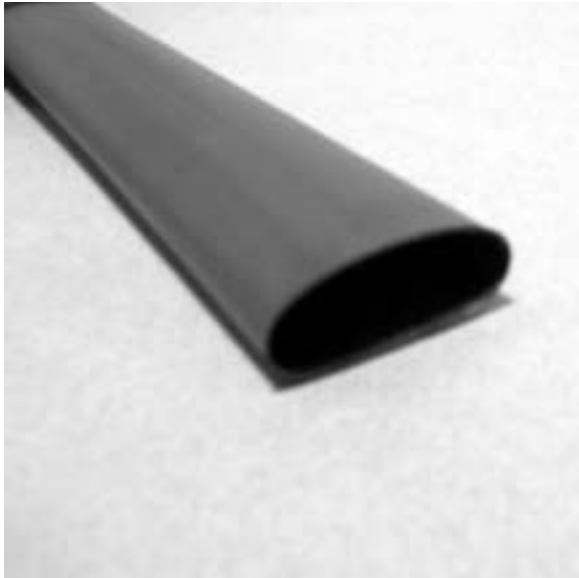
**Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Size selection: Always order the largest size that will shrink snugly over the component to be covered. Users should independently evaluate the suitability of the product for their application.

PENN-SHRINK BLACK THIN WALL - TYPE PSBT

Highly flame-retardant, very flexible, low-shrink-temperature polyolefin tubing



Applications

Cost-effective choice for many commercial and military applications. Electrically insulates and protects in-line components, disconnect terminals, and splices. Bundles wires for very flexible light-duty harnesses. Strain-relieves electrical wire connections for commercial applications.

Operating Temperature Range

-55°C to 135°C

Features/Benefits

- 2:1 shrink ratio.
- Low shrink temperature reduces installation time and the risk of damage to temperature-sensitive components.
- Very flexible; doesn't easily wrinkle when bent.
- Highly flame-retardant.
- Hot stamps extremely well.
- Higher temperature rating, better thermal stability, and higher resistance to physical abuse than noncrosslinked materials.
- Free of polybrominated biphenyls (PBBs) and polybrominated biphenyl oxides and ethers (PBBOs and PBBEs), which are classified as environmentally hazardous substances.
- Improved heat aging properties to meet the new requirements of UL 224 VW-1 TESTING.
- Improved fluid resistance to offer higher performance in fuels and oil exposure.
- Improved column strength to allow easier installation over components.
- Enhanced flame retardance to meet the requirements of UL 224 VW-1 testing in the newly revised UL test chamber.
- UL 224 VW-1/CSA OFT Tubing Specifications and Flammability Testing.

Installation

Minimum shrink temperature: 70°C

Minimum full recovery temperature: 90°C

Specifications/Approvals



UL 224 VW-1

600 V, 125°C



CSA VW-1

(OFT)

600 V, 125°C

Military

SAE-AMS-DTL-23053/5

*Formerly MIL-I-23053/5.

Series
PSBT

Production Dimensions Inches

| Part Number | Size | Length (Inches) | Inside diameter | | Wall thickness Recovered after heating** |
|--------------|-------|-----------------|------------------------------|---------------------------------|------------------------------------------|
| | | | Minimum expanded as supplied | Maximum recovered after heating | |
| PSBT14FR-6 | 1/4 | 6 | .250 | .125 | .025 |
| PSBT14FR-48 | 1/4 | 48 | .250 | .125 | .025 |
| PSBT12FR-6 | 1/2 | 6 | .500 | .250 | .025 |
| PSBT12FR-48 | 1/2 | 48 | .500 | .250 | .025 |
| PSBT34FR-6 | 3/4 | 6 | .750 | .375 | .030 |
| PSBT34FR-48 | 3/4 | 48 | .750 | .375 | .030 |
| PSBT100FR-6 | 1 | 6 | 1.000 | .500 | .035 |
| PSBT100FR-48 | 1 | 48 | 1.000 | .500 | .035 |
| PSBT112FR-6 | 1-1/2 | 6 | 1.500 | .750 | .040 |
| PSBT112FR-48 | 1-1/2 | 48 | 1.500 | .750 | .040 |
| PSBT200FR-6 | 2 | 6 | 2.000 | 1.00 | .045 |
| PSBT200FR-48 | 2 | 48 | 2.000 | 1.00 | .045 |

**Wall thickness will be less if tubing recovery is restricted during shrinkage.

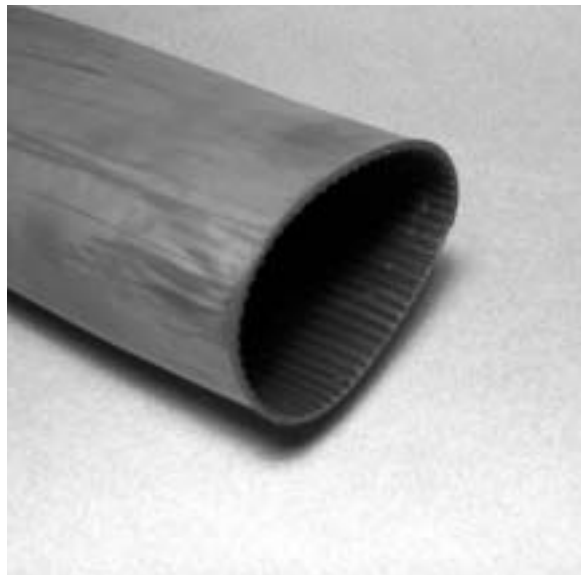
Ordering Information

Size selection: Always order the largest size that will shrink snugly over the component to be covered.

Users should independently evaluate the suitability of the product for their application.

PENN-SHRINK HEAVY WALL WITH ADHESIVE - TYPE PSHA

Polyolefin heavy-wall heat shrinkable tubing - chemical and corrosion resistant, very high impact and abrasion resistance, rated for 600V applications



Specifications/Approvals



UL 486D
DIRECT BURIAL
1000 V, 75°C

Applications

For insulating and sealing low-voltage power cables and accessories. The electrical and physical properties of a cable oversheath material are combined with ruggedness and easy installation. The heavy-wall tubing is supplied with an interior meltable adhesive wall to seal onto the substrate. The adhesive exhibits excellent bonding and sealing characteristics to all materials commonly used in the various cable insulation and sheath constructions such as plastic, rubber, lead and aluminum.

Features/Benefits

PSHA is a heat-shrinkable heavy-wall tubing for insulating and sealing power cables and accessories. In PSHA tubing, the electrical and physical properties of a cable oversheath material are combined with ruggedness and easy installation.

On heating, PSHA tubing recovers to a smaller diameter, fitting tightly over a wide range of cable sizes and accessories because of its high shrink ratio. At the same time the tubing's inner adhesive wall gives a dependable moisture seal over most irregular shapes.

PSHA tubing's mechanical strength enables immediate back-filling of cable trenches after jointing. Widely used to insulate, protect and seal power cable joints, accessories and electrical connections.

PSHA can be installed over variously-shaped objects to make a tight, insulating or fluid-resistant cover. May be used for jacket repair on cables to 35kV.

- 3:1 shrink ratio.
- Chemical and corrosion resistance.
- Very high resistance to impact and abrasion.

Production Dimensions Inches

| Part Number | Size | Length (Inches) | Inside diameter | |
|--------------|---------------|-----------------|------------------------------|---------------------------------|
| | | | Minimum expanded as supplied | Maximum recovered after heating |
| PSHA51FR-6 | #8-#14 | 6 | .51 | .15 |
| PSHA51FR-30 | #8-#14 | 48 | .51 | .15 |
| PSHA78FR-6 | #2-#6 | 6 | .78 | .23 |
| PSHA78FR-12 | #2-#6 | 12 | .78 | .23 |
| PSHA78FR-48 | #2-#6 | 48 | .78 | .23 |
| PSHA130FR-9 | 1 AWG-3/0 MCM | 9 | 1.30 | .31 |
| PSHA130FR-12 | 1 AWG-3/0 MCM | 12 | 1.30 | .31 |
| PSHA130FR-48 | 1 AWG-3/0 MCM | 48 | 1.30 | .31 |
| PSHA169FR-9 | 2/0-350 MCM | 9 | 1.69 | .47 |
| PSHA169FR-12 | 2/0-350 MCM | 12 | 1.69 | .47 |
| PSHA169FR-48 | 2/0-350 MCM | 48 | 1.69 | .47 |
| PSHA200FR-9 | 250-500 MCM | 9 | 2.00 | .62 |
| PSHA200FR-12 | 250-500 MCM | 12 | 2.00 | .62 |
| PSHA200FR-48 | 250-500 MCM | 48 | 2.00 | .62 |

Ordering Information

Size selection: Always order the largest size that will shrink snugly over the component to be covered. Users should independently evaluate the suitability of the product for their application.

PENN-SHRINK END CAPS - TYPE PSEC

Heat-shrinkable end caps



Applications

PSEC heat-shrinkable end caps are made from a thermally stabilized, modified polyolefin, which makes them highly resistant to moisture, fungus, and weathering. The end caps also have excellent electrical properties. End caps are coated with sealant for underwater or underground applications with a pressure differential up to 20 psi between the inside of the cable and the outside environment. End caps may be used over lead, steel, aluminum, copper, polyethylene, polyolefin, EPR, and PVC jacketing materials.

Operating Temperature Range

-40°C to 85°C

Features/Benefits

- Self-sealing for waterproofing.
- Electrical insulation to 1000 V.
- Abrasion-resistant
- Mechanical protection.
- Easy installation, requiring no special skills.
- Operating temperature range of -40° C to 85° C.
- Minimum shrink temperature of 121° C.
- One piece molded construction.

Installation

Minimum shrink temperature: 121°C

Specifications

Military
 MIL-I-81765/1/A

Production Dimensions (Inches)

| Part Number | Inner Diameter* As Supplied (min.) | Recovered (max.) | Part Length Recovered ± | Wall thickness (nom.) Recovered ± | Wire Range |
|-------------|---------------------------------------|------------------|----------------------------|-----------------------------------------|---------------|
| PSEC-1 | .33 | .16 | 1.32 | .08 | #6 - #8 |
| PSEC-2 | .73 | .30 | 2.18 | .09 | #4 - 3/0 |
| PSEC-3 | 1.32 | .59 | 3.54 | .12 | 4/0 - 600 |
| PSEC-4 | 2.11 | .98 | 5.64 | .13 | 600 - 1750 |
| PSEC-5 | 2.81 | 1.25 | 5.91 | .13 | 1250 - 2000 |
| PSEC-6 | 3.88 | 1.77 | 6.40 | .16 | 2000 |

*Adhesive lined is standard

Users should independently evaluate the suitability of the product for their application.

COPPER PENN-CRIMPS® • TYPE BLU

Crimp lugs with inspection window for #8 stranded AWG thru 2000 MCM

- ◆ Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. Inspection window insures full insertion.
- ◆ Catalog number and conductor size marked on every piece insures positive identification.
- ◆ Can be installed with existing crimping tools. Color coding conforms to industry requirements to insure proper connector/die selection and to provide for faster installation.
- ◆ BLU LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 35KV.
- ◆ 45° and 90° Variations are UL Listed and CSA certified. Contact factory for price and availability.
- ◆ NEW FEATURE – UL/CSA approved with Versa-Crimp® tooling and wire ranges. Versa-Crimp® is a registered trademark of Hubbell Incorporated.
- ◆ Additional wire size recommendations, see Master Catalog.



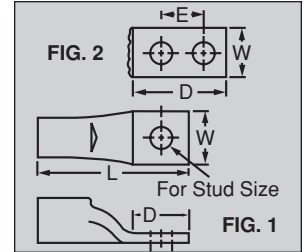
COLOR-CODED COPPER COMPRESSION CONNECTORS



| Connector Family | UL486A/CSA22.2 No. 65 Wire Range | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|----------------------------|----------------------------------|------------------------|---------------------|---------------|----------------------------|---------------------|---------------|
| | | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| BLU, BBLU, BBLZ, BCU, BBCU | 8 Str.-2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |

POWER: UL 486A, CSA C22.2 NO. 65

GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



| Catalog Number | Copper Cond. Range† | Wire Dia. (in) ‡ | Stud Size | Fig. No | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | |
|-----------------------------------------------------------------------------------------------------|---------------------|------------------|-------------------------------------------------|---------------------------------|---------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|----------------|----------------------------|------------------------|------------------|---------|
| | | | | | E | W | D | L | | Penn-Union | | Alt. Tooling | |
| | | | | | | | | | | PUC Dies | TDY-1 Pressure Setting | Burndy Index No. | T&B Die |
| BLU-8S14 BLU-8D2TC10 BLU-8S15 BLU-8S16 BLU-8S17 BLU-8S18 | 8 Str. | .146 | #10 #10 1/4 5/16 3/8 1/2 | 1 2 1 1 1 1 | — 5/8 — — — — | 13/32 13/32 13/32 9/16 9/16 13/16 | 1/2 1 1/8 9/16 2 1/32 1 1/32 5 5/64 | 1 5/32 1 25/32 1 7/32 1 5/16 1 11/32 1 33/64 | Red | T-6* | | B-6 | 21 |
| BLU-6S BLU-6S1 BLU-6D2TC14 BLU-6S2 BLU-6S8 | 6 Str. | .184 | #10 1/4 1/4 5/16 3/8 | 1 2 2 1 1 | — — 5/8 — — | 13/32 7/16 7/16 1/2 19/32 | 17/32 11/16 1 3/16 2 7/32 1 25/32 1 27/32 | 1 9/16 1 23/32 2 7/32 1 25/32 1 27/32 | Blue | T-7* / T-374* | | B-7 | 24 |
| BLU-5S BLU-5S1 BLU-5D2TC14 BLU-5S2 BLU-5S3 | 5 Str. | .206 | #10 1/4 1/4 5/16 3/8 | 1 1 2 1 1 | — — 5/8 — — | 7/16 7/16 7/16 9/16 19/32 | 9/16 11/16 2 19/64 23/32 7/8 | 1 39/64 1 47/64 2 19/64 1 49/64 1 59/64 | Blue | T-7* / T-374* | | B-7 | 24 |
| BLU-4S BLU-4S1 BLU-4D2TC14 BLU-4S10 BLU-4S2 | 4 Str. | .232 | #10 1/4 1/4 5/16 3/8 | 1 1 2 1 1 | — — 5/8 — — | 1/2 1/2 1 3/16 23/32 7/8 | 9/16 11/16 2 19/64 1 49/64 1 49/64 | 1 39/64 1 47/64 2 19/64 1 49/64 1 49/64 | Gray | T-8* / T-346* | | B-8 | 29 |
| BLU-3S BLU-3S1 BLU-3D2TC14** BLU-3S2 BLU-3S3 | 3 Str. | .260 | #10 1/4 1/4 5/16 3/8 | 1 1 2 1 1 | — — 5/8 — — | 17/32 17/32 17/32 9/16 19/32 | 9/16 11/16 1 3/16 3/4 7/8 | 1 43/64 1 51/64 2 19/64 1 55/64 1 63/64 | White | T-9* | | B-9 | — |
| BLU-2S15 BLU-2S BLU-2D2TC14 BLU-2S1 BLU-2S2 BLU-2S10 BLU-2D2 | 2 Str. | .292 | #10 1/4 1/4 5/16 3/8 1/2 1/2 | 1 1 2 1 1 1 2 | — — 5/8 — — — 1 3/4 | 19/32 19/32 19/32 19/32 5/8 13/16 13/16 | 2 1/32 11/16 1 7/32 3/4 7/8 1 1/8 2 7/8 | 1 47/64 1 51/64 2 21/64 1 55/64 1 63/64 2 15/64 3 63/64 | Brown | T-10 | 2 | B-10 | 33 |
| BLU-1S9 BLU-1D2TC14 BLU-1S BLU-1D2TC516E6 BLU-1S1 BLU-1S4 | 1 Str. | .332 | 1/4 1/4 5/16 5/16 3/8 1/2 | 1 2 1 2 1 1 | — 5/8 — 7/8 — — | 43/64 43/64 43/64 43/64 43/64 3/4 | 9/16 1 3/16 3/4 1 5/8 7/8 1 1/8 | 1 27/64 2 23/64 1 55/64 2 51/64 2 3/64 2 19/64 | Green | T-11/375 | | B-11 | 37 |
| BLU-1/0S19 BLU-1/0S BLU-1/0D2TC516E6 BLU-1/0S1 BLU-1/0D2TC38 BLU-1/0S20 BLU-1/0D2 | 1/0 Str. | .375 | 1/4 5/16 5/16 3/8 3/8 1/2 1/2 | 1 1 2 1 2 1 2 | — — 7/8 — 1 — 1 3/4 | 3/4 3/4 3/4 3/4 3/4 13/16 13/16 | 3/4 3/4 1 5/8 7/8 1 13/16 1 1/16 2 1/4 4 1/16 | 1 15/16 2 1/16 2 19/16 2 1/16 3 2 1/4 4 1/16 | Pink | T-12/348 | | B-12 | 42 |

NEW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS
NEW FEATURE!

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog

** (Also #2 Sol)
 *** CUAD-1000

* Consult factory for availability of dies not available at this time.

**NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS**

| Catalog Number | Copper Cond. Range† | Wire Dia. (in) ‡ | Stud Size | Fig. No | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | |
|----------------------------------------------------------------------------------------------------|---------------------|------------------|-------------------------------------------------|---------------------------------|---------------------------------------|-------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------|----------------|----------------------------|------------------|------------------|---------|-------------|
| | | | | | E | W | D | L | | Penn-Union | | Alt. Tooling | | |
| | | | | | | | | | | PUC Dies | Pressure Setting | Burndy Index No. | T&B Die | |
| | | | | | | TDY-1 | TDY-U | | | | | | | |
| BLU-2/0S20 BLU-2/0S21 BLU-2/0D2TC516E6 BLU-2/0S BLU-2/0D2TC38 BLU-2/0S4 BLU-2/0D | 2/0 Str. | .419 | 1/4 5/16 5/16 3/8 3/8 1/2 1/2 | 1 1 2 1 2 1 2 | — — 7/8 — 1 — 1 3/4 | — — — 13/16 — — — | 13/16 13/16 1 5/8 7/8 7 3/8 1 1/8 2 7/8 | 2 1/16 2 1/16 2 7/8 2 1/8 3 1/16 2 3/8 4 1/8 | Black | T-13 | 2 | X | B-13 | 45 |
| BLU-3/0S14 BLU-3/0S15 BLU-3/0D11 BLU-3/0S BLU-3/0D2TC38 BLU-3/0S1 BLU-3/0D | 3/0 Str. | .470 | 1/4 5/16 5/16 3/8 3/8 1/2 1/2 | 1 1 2 1 2 1 2 | — — 7/8 — 1 — 1 3/4 | — — 29/32 — — — — | 13/16 13/16 1 5/8 7/8 1 13/16 1 1/8 2 7/8 | 1 15/16 1 15/16 3 2 1/4 3 3/16 2 1/2 4 1/4 | Orange | T-14 | | | B-14 | 50 |
| BLU-4/0S19 BLU-4/0S25 BLU-4/0S BLU-4/0D2TC38 BLU-4/0S1 BLU-4/0D | 4/0 Str. | .528 | 1/4 5/16 3/8 3/8 1/2 1/2 | 1 1 1 2 1 2 | — — — 1 — 1 3/4 | — — 1 — — — | 25/32 25/32 7/8 1 13/16 1 1/8 2 7/8 | 2 7/32 2 7/32 2 5/16 3 1/4 2 9/16 4 5/16 | Purple | T-15 | 5 | 5 | B-15 | 54 |
| BLU-025S4 BLU-025S5 BLU-025S2 BLU-025D2TC38 BLU-025S BLU-025D | 250 MCM | .575 | 1/4 5/16 3/8 3/8 1/2 1/2 | 1 1 1 2 1 2 | — — — 1 — 1 3/4 | — — 1 3/32 — — — | 25/32 25/32 1 1 13/16 1 1/8 2 7/8 | 2 11/32 2 11/32 2 9/16 3 3/8 2 11/16 4 7/16 | Yellow | T-16 | | | B-16 | 62 |
| BLU-030S6 BLU-030S7 BLU-030D2TC38 BLU-030S BLU-030D BLU-030S8 | 300 MCM | .634 | 5/16 3/8 3/8 1/2 1/2 5/8 | 1 1 2 1 2 1 | — — 1 — 1 3/4 — | — — 1 3/16 — — — | 25/32 1 1 13/16 1 1/8 2 7/8 1 11/16 | 2 13/32 2 5/8 3 7/16 2 3/4 4 1/2 3 5/16 | White | T-17* | | | B-17 | 66H or 66 |
| BLU-035S1 BLU-035D2TC38 BLU-035S BLU-035D BLU-035S3 | 350 MCM | .682 | 3/8 3/8 1/2 1/2 5/8 | 1 2 1 2 1 | — 1 — 1 3/4 — | — — 1 9/32 — — | 7/8 1 13/16 1 5/32 2 7/8 1 13/32 | 2 5/8 3 9/16 2 29/32 4 5/8 3 5/32 | Red | T-18/324 | 7 | 7 | B-18 | 71H or 71 |
| BLU-040D2TC38 BLU-040S4 BLU-040D BLU-040S | 400 MCM | .728 | 3/8 1/2 1/2 5/8 | 2 1 2 1 | 1 — 1 3/4 — | — 1 13/32 — — | 1 13/16 1 3/16 2 7/8 1 7/16 | 3 11/16 3 1/16 4 3/4 3 5/16 | Blue | T-19* / T-470* | | | B-19 | 76H or 76 |
| BLU-045S1 BLU-045D BLU-045S | 450 MCM | .772 | 1/2 1/2 5/8 | 1 2 1 | — 1 3/4 — | — 1 29/64 — | 1 3/16 2 7/8 1 7/16 | 3 1/16 4 3/64 3 5/16 | Blue | T-19* / T-470* | X | X | B-19 | 76H or 76 |
| BLU-050D2TC38 BLU-050S2 BLU-050D BLU-050S | 500 MCM | .815 | 3/8 1/2 1/2 5/8 | 2 1 2 1 | 1 — 1 3/4 — | — 1 17/32 — — | 1 13/16 1 1/8 2 7/8 1 7/16 | 3 5/16 3 1/32 5 3 9/16 | Brown | T-20/299 | | | B-20 | 87 |
| BLU-060D BLU-060S BLU-060S1 | 600 MCM | .893 | 1/2 5/8 1/2 | 2 1 1 | 1 3/4 — — | — 1 23/32 — | 2 7/8 1 3/4 1 3/4 | 5 3/32 3 31/32 3 31/32 | Green | T-22/472 | 9 | 9 | B-22 | 94H or 94 |
| BLU-065D BLU-065S4 BLU-065S5 | 650 MCM | .930 | 1/2 5/8 1/2 | 2 1 1 | 1 3/4 — — | — 1 25/32 — | 2 7/8 1 3/4 1 3/4 | 5 3/32 3 31/32 3 31/32 | Pink | — | | | B-300 | 99 |
| BLU-075D BLU-075S | 750 MCM | .999 | 1/2 5/8 | 2 1 | 1 3/4 — | — 1 29/32 | 2 7/8 1 7/16 | 5 7/16 4 | Black | T-24*/473 | | | B-24 | 106H or 106 |
| BLU-080D BLU-080S | 800 MCM | 1.031 | 1/2 5/8 | 2 1 | 1 3/4 — | — 1 31/32 | 2 7/8 1 7/8 | 5 17/32 4 17/32 | Orange | — | X | X | B-25 | 107H or 107 |
| BLU-100D BLU-100S BLU-100S4 | 1000 MCM | 1.153 | 1/2 5/8 3/4 | 2 1 1 | 1 3/4 — — | — 2 9/16 — | 2 7/8 1 7/8 1 7/8 | 5 7/8 4 7/8 4 7/8 | White | — | 9*** | 9*** | B-27 | 125 |
| BLU-150D BLU-150S | 1500 MCM | 1.412 | 1/2 3/4 | 2 1 | 1 3/4 — | — 2 11/16 | 2 7/8 2 1/4 | 6 3/32 5 15/32 | Green | — | X | X | B-31 | — |
| BLU-200D BLU-200S | 2000 MCM | 1.632 | 1/2 3/4 | 2 1 | 1 3/4 — | — 3 1/16 | 2 7/8 2 3/8 | 6 3/8 5 15/16 | Brown | — | X | X | B-34 | — |

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog

** (Also #2 Sol)
 *** CUAD-1000

* Consult factory for availability of dies not available at this time.

COPPER PENN-CRIMPS® • TYPE BBLU

Long barrel lugs for #6 stranded AWG thru 2000 MCM

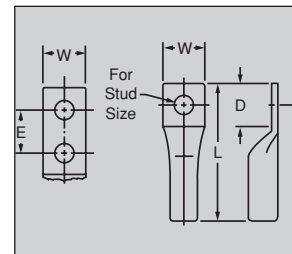
- ◆ Longer length barrel permits extra crimps for additional assurance on heavy duty loads. Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. End of cable is protected from environmental hazards by completely closed transition.
- ◆ Catalog number and conductor sizes marked on every piece insures positive identification.
- ◆ Can be installed with existing crimping tools. Die color coding conforms to industry standards to insure proper connector/die

- selection and to provide for faster installation.
- ◆ BBLU LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 35KV.
- ◆ 45° and 90° Variations are UL Listed and CSA certified. Contact factory for price and availability.
- ◆ NEW FEATURE – UL/CSA approved with Versa-Crimp® tooling and wire ranges. Versa-Crimp® is a registered trademark of Hubbell Incorporated.
- ◆ Additional wire size recommendations, see Master Catalog.



| COLOR-CODED COPPER COMPRESSION CONNECTORS | | | | | | | |
|----------------------------------------------|-------------------------------------------|---------------------------|------------------------|------------------|----------------------------|------------------------|------------------|
| Connector Family | UL 486A/ CSA 22.2 No. 65 Wire Range | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
| | | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| BBLU, BBLU, BBLZ, BCU, BBCU | 8 Str.- 2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |

POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



1 HOLE LUGS

| Catalog Number | Copper Cond. Range† | Wire Dia. (in) ± | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | |
|---------------------------------|---------------------|------------------|-------------------|------------------------------------|-----------------------|-------------------------|-------------------------------|----------------|----------------------------|------------------|------------------|---------|----------|
| | | | | E | W | D | L | | Penn-Union | | Alt. Tooling | | |
| | | | | | | | | | PUC Dies | Pressure Setting | Burndy Index No. | T&B Die | |
| BBLU-6S BBLU-6S1 | 6 Str | .184 | 1/4 1/2 | — — | 13/32 13/16 | 11/16 1 1/4 | 2 1/16 2 19/32 | Blue | T-7*/374* | | | B-7 | 24 |
| BBLU-4S BBLU-4S1 BBLU-4S2 | 4 Str. | .232 | 1/4 3/8 1/2 | — — — | 1/2 13/16 13/16 | 11/16 1 1/4 1 1/4 | 2 39/64 2 39/64 2 39/64 | Gray | T-8*/346* | | | B-8 | 29 |
| BBLU-3S3 BBLU-3S1 | 3 Str. | .260 | 1/4 5/16 | — — | 17/32 17/32 | 3/4 3/4 | 2 5/32 2 5/32 | White | T-9* | | | B-9 | — |
| BBLU-2S | 2 Str. | .292 | 5/16 | — | 19/32 | 3/4 | 2 1/4 | Brown | T-10 | 2 | | B-10 | 33 |
| BBLU-1S | 1 Str. | .332 | 5/16 | — | 11/16 | 3/4 | 2 3/8 | Green | T-11/375 | | | B-11 | 37 |
| BBLU-1/0S BBLU-1/0S2 | 1/0 Str. | .375 | 5/16 3/8 | — — | 3/4 3/4 | 3/4 13/16 | 2 7/16 2 3/8 | Pink | T-12/348 | | | B-12 | 42 |
| BBLU-2/0S BBLU-2/0S1 | 2/0 Str. | .419 | 3/8 1/2 | — — | 13/16 13/16 | 7/8 1 1/4 | 2 11/16 3 1/16 | Black | T-13 | | | B-13 | 45 |
| BBLU-3/0S2 BBLU-3/0S | 3/0 Str. | .470 | 3/8 1/2 | — — | 29/32 29/32 | 1 1/4 1 1/4 | 3 1/8 3 1/8 | Orange | T-14 | | | B-14 | 50 |
| BBLU-4/0S | 4/0 Str. | .528 | 1/2 | — | 1 | 1 1/4 | 3 5/16 | Purple | T-15 | 5 | 5 | B-15 | 54 |
| BBLU-025S | 250 MCM | .575 | 1/2 | — | 1 1/8 | 1 1/4 | 3 3/8 | Yellow | T-16 | | | B-16 | 62 |
| BBLU-030S | 300 MCM | .634 | 1/2 | — | 1 3/16 | 1 1/4 | 3 13/16 | White | T-17* | | | B-17 | 66H/66 |
| BBLU-035S | 350 MCM | .682 | 1/2 | — | 1 9/32 | 1 1/4 | 3 27/32 | Red | T-18/T-324 | | | B-18 | 71H/71 |
| BBLU-040S BBLU-040S1 | 400 MCM | .728 | 5/8 1/2 | — — | 1 13/32 1 13/32 | 1 1/2 1 1/4 | 4 5/16 4 1/16 | Blue | T-19*/470* | 7 | 7 | B-19 | 76H/76 |
| BBLU-050S BBLU-050S2 | 500 MCM | .815 | 5/8 1/2 | — — | 1 17/32 1 17/32 | 1 15/32 1 1/4 | 4 1/2 4 1/4 | Brown | T-20/T-299 | 9 | 9 | B-20 | 87 |
| BBLU-060S | 600 MCM | .893 | 5/8 | — | 1 23/32 | 1 1/2 | 5 1/8 | Green | T-22/472 | | | B-22 | 94H/94 |
| BBLU-065S BBLU-065S1 | 650 MCM | .930 | 1/2 5/8 | — — | 1 25/32 1 25/32 | 1 3/4 1 3/4 | 5 13/32 5 13/32 | Pink | — — | 9 | 9 | B-300 | 99 |
| BBLU-075S | 750 MCM | .999 | 5/8 | — | 1 29/32 | 1 1/2 | 5 5/16 | Black | T-24*/473 | | | B-24 | 106H/106 |
| BBLU-080S | 800 MCM | 1.031 | 5/8 | — | 1 31/32 | 1 1/2 | 5 1/2 | Orange | — | | | B-25 | 107H/107 |
| BBLU-100S | 1000 MCM | 1.153 | 5/8 | — | 2 3/16 | 1 1/2 | 5 5/8 | White | — | 9*** | 9*** | B-27 | 125 |
| BBLU-150S | 1500 MCM | 1.412 | 3/4 | — | 2 11/16 | 2 1/8 | 6 9/16 | Green | — | | | B-31 | — |
| BBLU-200S | 2000 MCM | 1.632 | 3/4 | — | 3 1/16 | 2 1/8 | 6 7/8 | Brown | — | | | B-34 | — |

NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog

* Consult factory for availability of dies not available at this time.

2 HOLE NEMA SPACING

| Catalog Number | Copper Cond. Range† | Wire Dia. (in) ‡ | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | |
|------------------|---------------------|------------------|-----------|------------------------------------|--------|------|--------|----------------|----------------------------|------------------|------------------|---------|----------|
| | | | | E | W | D | L | | Penn-Union | | Alt. Tooling | | |
| | | | | | | | | | PUC Dies | Pressure Setting | Burndy Index No. | T&B Die | |
| | | | | TDY-1 | TDY-U | | | | | | | | |
| BBLU-6DN | 6 Str. | .184 | 1/2 | 13/4 | 13/16 | 3 | 411/32 | Blue | T-7*/374* | | | B-7 | 24 |
| BBLU-4D1 | 4 Str. | .232 | 1/2 | 13/4 | 15/16 | 27/8 | 415/64 | Gray | T-8*/346* | | | B-8 | 29 |
| BBLU-2D6 | 2 Str. | .292 | 1/2 | 13/4 | 13/16 | 3 | 433/64 | Brown | T-10 | | | B-10 | 33 |
| BBLU-1D2 | 1 Str. | .332 | 1/2 | 13/4 | 25/32 | 3 | 45/8 | Green | T-11/375 | 2 | | B-11 | 37 |
| BBLU-1/0D-2NTC38 | 1/0 Str. | .375 | 3/8 | 13/4 | 3/4 | 25/8 | 45/16 | Pink | T-12/348 | | | B-12 | 42 |
| BBLU-1/0D3 | | | 1/2 | 13/4 | 13/16 | 27/8 | 49/16 | | | | | | |
| BBLU-2/0D | 2/0 Str. | .419 | 1/2 | 13/4 | 13/16 | 3 | 413/16 | Black | T-13 | | | B-13 | 45 |
| BBLU-3/0D | 3/0 Str. | .470 | 1/2 | 13/4 | 29/32 | 3 | 47/8 | Orange | T-14 | | | B-14 | 50 |
| BBLU-4/0D | 4/0 Str. | .528 | 1/2 | 13/4 | 1 | 3 | 511/16 | Purple | T-15 | 5 | 5 | B-15 | 54 |
| BBLU-025D | 250 MCM | .575 | 1/2 | 13/4 | 11/8 | 3 | 51/8 | Yellow | T-16 | | | B-16 | 62 |
| BBLU-030D | 300 MCM | .634 | 1/2 | 13/4 | 3/16 | 3 | 59/16 | White | T-17* | | | B-17 | 66H/66 |
| BBLU-035D | 350 MCM | .682 | 1/2 | 13/4 | 5/16 | 3 | 55/8 | Red | T-18/ T-324 | 7 | 7 | B-18 | 71H/71 |
| BBLU-040D | 400 MCM | .728 | 1/2 | 13/4 | 113/32 | 3 | 513/16 | Blue | T-19*/470* | | | B-19 | 76H/76 |
| BBLU-050D | 500 MCM | .815 | 1/2 | 13/4 | 117/32 | 3 | 6 | Brown | T-20/T-299 | | | B-20 | 87 |
| BBLU-060D | 600 MCM | .893 | 1/2 | 13/4 | 123/32 | 3 | 69/16 | Green | T-22/472 | | | B-22 | 94H/94 |
| BBLU-065D | 650 MCM | .930 | 1/2 | 13/4 | 125/32 | 3 | 611/16 | Pink | - | 9 | 9 | B-300 | 99 |
| BBLU-075D | 750 MCM | .999 | 1/2 | 13/4 | 129/32 | 3 | 613/16 | Black | T-24*/473 | | | B-24 | 106H/106 |
| BBLU-080D | 800 MCM | 1.031 | 1/2 | 13/4 | 131/32 | 3 | 7 | Orange | - | | | B-25 | 107H/107 |
| BBLU-100D1 | 1000 MCM | 1.153 | 1/2 | 13/4 | 23/16 | 3 | 71/8 | White | - | 9*** | 9*** | B-27 | 125 |
| BBLU-150D1 | 1500 MCM | 1.412 | 1/2 | 13/4 | 211/16 | 3 | 77/16 | Green | - | | | B-31 | - |
| BBLU-200D1 | 2000 MCM | 1.632 | 1/2 | 13/4 | 35/64 | 3 | 73/4 | Brown | - | | | B-34 | - |

2 HOLE ASSORTED LUGS

| | | | | | | | | | | | | | |
|---------------|----------|-------|------|------|--------|--------|--------|-------|-----------|------|------|------|-----|
| BBLU-6D-2TC14 | 6 Str. | .184 | 1/4 | 5/8 | 13/32 | 19/32 | 221/32 | Blue | T-7*/374* | | | B-7 | 24 |
| BBLU-4D-2TC14 | 4 Str. | .232 | 1/4 | 5/8 | 1/2 | 19/32 | 211/16 | Gray | T-8*/346* | | | B-8 | 29 |
| BBLU-3D | 3 Str. | .260 | 5/16 | 7/8 | 17/32 | 15/8 | 31/32 | White | T-9* | | | B-9 | - |
| BBLU-2D | 2 Str. | .292 | 5/16 | 3/4 | 5/8 | 115/32 | 37/32 | Brown | T-10 | 2 | | B-10 | 33 |
| BBLU-1D | 1 Str. | .332 | 5/16 | 7/8 | 11/16 | 15/8 | 33/8 | Green | T-11/375 | | | B-11 | 37 |
| BBLU-1/0D | 1/0 Str. | .375 | 5/16 | 7/8 | 3/4 | 119/32 | 35/16 | Pink | T-12/348 | | | B-12 | 42 |
| BBLU-100D | 1000 MCM | 1.153 | 1/2 | 11/4 | 23/16 | 23/8 | 61/2 | White | - | 9*** | 9*** | B-27 | 125 |
| BBLU-150D | 1500 MCM | 1.412 | 1/2 | 13/8 | 211/16 | 21/2 | 615/16 | Green | - | | | B-31 | - |
| BBLU-200D | 2000 MCM | 1.632 | 1/2 | 11/2 | 35/64 | 3 | 73/8 | Brown | - | | | B-34 | - |

NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog
 * Consult factory for availability of dies not available at this time.
 *** CUAD-1000

FLARED COPPER PENN-CRIMPS® • TYPE BLU-FL

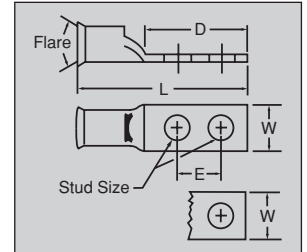
Crimp lugs with inspection window for #4 (105/24) thru 1111 MCM (275/24) diesel locomotive cable and class G, H, I, & K flexible cables

- ◆ Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer and wide flare provide easy cable insertion even for fine stranded extra flexible cable. Inspection window insures full insertion. See Master Catalog for flexible cable recommendations and listing.
- ◆ Catalog number and conductor size marked on every piece insures positive identification.
- ◆ Can be installed with existing crimping tools. Die color-coding conforms to industry standards to insure proper connector/die selection and to provide for faster installation.
- ◆ BLU LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 35 KV.



| UL 90° C | | COLOR-CODED COPPER COMPRESSION CONNECTORS | | | | | | CSA | |
|----------------------------|------------------------------------|-------------------------------------------|---------------------|---------------|----------------------------|---------------------|---------------|-----|--|
| POWER | | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | | | |
| Connector Family | UL 486A/ CSA22.2 No. 65 Wire Range | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial | | |
| BLU, BBLU, BBLZ, BCU, BBCU | 8 Str.-2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES | | |

POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



| Catalog Number | Diesel Locomotive Cable Range | Stranding | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Flex Wire Crimping Tool Reference | | | | |
|-----------------------------|-------------------------------|-----------|--------------|------------------------------------|------------------|---------------|------------------|----------------|-----------------------------------|-----|--------------|-----------|----------|
| | | | | E | W | D | L | | PENN UNION | | Alt. Tooling | | |
| | | | | | | | | | TDM 250 | TDY | Burndy Index | T & B Die | |
| BLU-3D-FL BLU-3S2-FL | 4 AWG | 105/24 | 1/4 5/16 | 5/8 - | 17/32 9/16 | 13/16 3/4 | 219/64 155/64 | White | XF | 2 | - | B-9 | - |
| BLU-1D4-FL BLU-1S-FL | 2 AWG | 150/24 | 5/16 5/16 | 7/8 - | 43/64 43/64 | 15/8 3/4 | 251/64 155/64 | Green | XF | 2 | - | B-11 | 37 |
| BLU-1/0D-FL BLU-1/0S-FL | 1 AWG | 225/24 | 5/16 5/16 | 7/8 - | 3/4 3/4 | 15/8 3/4 | 213/16 115/16 | Pink | XF | 2 | - | B-12 | 42 |
| BLU-2/0D4-FL BLU-2/0S-FL | 1/0 AWG | 275/24 | 3/8 3/8 | 1 - | 13/16 13/16 | 113/16 7/8 | 31/16 21/8 | Black | XF | 2 | - | B-13 | 45 |
| BLU-3/0D-FL BLU-3/0S1-FL | 2/0 AWG | 325/24 | 1/2 1/2 | 13/4 - | 29/32 29/32 | 27/8 1 1/8 | 41/4 21/2 | Orange | XF | 5 | 5 | B-14 | 50 |
| BLU-4/0D-FL BLU-4/0S1-FL | 3/0 AWG | 450/24 | 1/2 1/2 | 13/4 - | 1 1 | 27/8 1 1/8 | 45/16 29/16 | Purple | XF | 5 | 5 | B-15 | 54 |
| BLU-030D-FL BLU-030S-FL | 4/0 AWG | 550/24 | 1/2 1/2 | 13/4 - | 13/16 13/16 | 27/8 1 1/8 | 41/2 23/4 | White | - | 7 | 7 | B-17 | 66H/66 |
| BLU-035D-FL BLU-035S-FL | 262 MCM | 650/24 | 1/2 1/2 | 13/4 - | 19/32 19/32 | 27/8 15/32 | 45/8 229/32 | Red | - | 7 | 7 | B-18 | 71H/71 |
| BLU-040D-FL BLU-040S-FL | 313 MCM | 775/24 | 1/2 5/8 | 13/4 - | 113/32 113/32 | 27/8 17/16 | 43/4 35/16 | Blue | - | 7 | 7 | B-19 | 76H/76 |
| BLU-050D-FL BLU-050S-FL | 373 MCM | 925/24 | 1/2 5/8 | 13/4 - | 117/32 117/32 | 27/8 17/16 | 5 39/16 | Brown | - | 9 | 9 | B-20 | 87 |
| BLU-060D-FL BLU-060S-FL | 444 MCM | 1100/24 | 1/2 5/8 | 13/4 - | 123/32 123/32 | 27/8 13/4 | 53/32 231/32 | Green | - | 9 | 9 | B-22 | 94H/94 |
| BLU-065D-FL BLU-065S4-FL | 535 MCM | 1325/24 | 1/2 5/8 | 13/4 - | 125/32 125/32 | 27/8 13/4 | 53/32 331/32 | Pink | - | 9 | 9 | B-300 | 99 |
| BLU-075D-FL BLU-075S-FL | 646 MCM | 1600/24 | 1/2 5/8 | 13/4 - | 129/32 129/32 | 27/8 17/16 | 57/16 4 | Black | - | 9 | 9 | B-24 | 106H/106 |
| BLU-100D-FL BLU-100S-FL | 777 MCM | 1925/24 | 1/2 5/8 | 13/4 - | 23/16 23/16 | 27/8 17/8 | 57/8 47/8 | White | - | 9* | 9* | B-27 | 125 |
| BLU-150D-FL BLU-150S-FL | 1111 MCM | 2750/24 | 1/2 3/4 | 13/4 - | 211/16 211/16 | 27/8 2 1/4 | 63/32 515/32 | Green | - | - | - | B-31 | - |

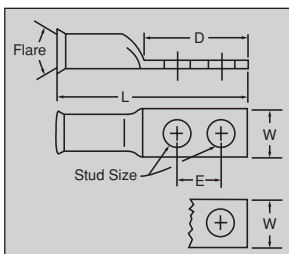
NEW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS

* with Flex wire only

FLARED COPPER PENN-CRIMPS® • TYPE BBLU-FL

Crimp lugs with inspection window for #4 (105/24) thru 1111 MCM (275/24) diesel locomotive cable and class G, H, I, & K flexible cables

- ◆ Longer length barrel permits extra crimps for additional assurance on heavy duty loads. Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer and wide flare provide easy cable insertion even for fine stranded extra flexible cable. End of cable is protected from environmental hazards by completely closed transition. See Master Catalog for flexible cable recommendation and listing.
- ◆ Catalog number and conductor size marked on every piece insures positive identification.
- ◆ Can be installed with existing crimping tools. Die color-coding conforms to industry standards to insure proper connector/die selection and to provide for faster installation.
- ◆ BBLU LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 35 KV.



COLOR-CODED COPPER COMPRESSION CONNECTORS



| Connector Family | UL 486A/CSA22.2 No. 65 Wire Range | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|-----------------------------|-----------------------------------|------------------------|---------------------|---------------|----------------------------|---------------------|---------------|
| | | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| BBLU, BBLU, BBLZ, BCU, BBCU | 8 Str.-2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |

POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



**NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS**

| Catalog Number | Diesel Locomotive Cable Range | Stranding | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Flex Wire Crimping Tool Reference | | | | |
|-------------------------------|-------------------------------|-----------|-----------|------------------------------------|---------|---------|---------|----------------|-----------------------------------|-----|--------------|-----------|----------|
| | | | | E | W | D | L | | PENN UNION | | Alt. Tooling | | |
| | | | | | | | | | TDM 250 | TDY | Burndy Index | T & B Die | |
| BBLU-3D-FL BBLU-3S1-FL | 4 AWG | 105/24 | 5/16 | 7/8 | 17/32 | 15/8 | 3 1/32 | White | XF | 2 | - | B-9 | - |
| BBLU-1D-FL BBLU-1S-FL | 2 AWG | 150/24 | 5/16 | 7/8 | 11/16 | 15/8 | 3 3/8 | Green | XF | 2 | - | B-11 | 37 |
| BBLU-1/0D-FL BBLU-1/0S-FL | 1 AWG | 225/24 | 5/16 | 7/8 | 3/4 | 1 19/32 | 3 5/16 | Pink | XF | 2 | - | B-12 | 42 |
| BBLU-2/0D-FL BBLU-2/0S-FL | 1/0 AWG | 275/24 | 1/2 | 1 3/4 | 13/16 | 3 | 4 13/16 | Black | XF | 2 | - | B-13 | 45 |
| BBLU-3/0D-FL BBLU-3/0S-FL | 2/0 AWG | 325/24 | 1/2 | 1 3/4 | 29/32 | 3 | 4 7/8 | Orange | XF | 5 | 5 | B-14 | 50 |
| BBLU-4/0D-FL BBLU-4/0S-FL | 3/0 AWG | 450/24 | 1/2 | 1 3/4 | 1 | 1 1/4 | 5 1/16 | Purple | XF | 5 | 5 | B-15 | 54 |
| BBLU-030D-FL BBLU-030S-FL | 4/0 AWG | 550/24 | 1/2 | 1 3/4 | 1 3/16 | 3 | 5 9/16 | White | - | 7 | 7 | B-17 | 66H/66 |
| BBLU-035D-FL BBLU-035S-FL | 262 MCM | 650/24 | 1/2 | 1 3/4 | 1 5/16 | 3 | 5 5/8 | Red | - | 7 | 7 | B-18 | 71H/71 |
| BBLU-040D-FL BBLU-040S-FL | 313 MCM | 775/24 | 1/2 | 1 3/4 | 1 13/32 | 3 | 5 13/16 | Blue | - | 7 | 7 | B-19 | 76H/76 |
| BBLU-050D-FL BBLU-050S-FL | 373 MCM | 925/24 | 1/2 | 1 3/4 | 1 17/32 | 3 | 6 | Brown | - | 9 | 9 | B-20 | 87 |
| BBLU-060D-FL BBLU-060S-FL | 444 MCM | 1100/24 | 1/2 | 1 3/4 | 1 23/32 | 3 | 6 9/16 | Green | - | 9 | 9 | B-22 | 94H/94 |
| BBLU-065D-FL BBLU-065S1-FL | 535 MCM | 1325/24 | 1/2 | 1 3/4 | 1 25/32 | 3 | 6 9/16 | Pink | - | 9 | 9 | B-300 | 99 |
| BBLU-075D-FL BBLU-075S-FL | 646 MCM | 1600/24 | 1/2 | 1 3/4 | 1 29/32 | 3 | 6 13/16 | Black | - | 9 | 9 | B-24 | 106H/106 |
| BBLU-100D1-FL BBLU-100S-FL | 777 MCM | 1925/24 | 1/2 | 1 3/4 | 2 1/16 | 3 | 7 1/8 | White | - | 9* | 9* | B-27 | 125 |
| BBLU-150D1-FL BBLU-150S-FL | 1111 MCM | 2750/24 | 1/2 | 1 3/4 | 2 11/16 | 3 | 7 7/16 | Green | - | - | - | B-31 | - |

* with Flex wire only

COPPER PENN-CRIMPS® • TYPE BCU & BBCU

Crimp splices for #8 stranded thru 2000 MCM

- ◆ Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. Type BBCU has longer length barrel which permits extra crimps for additional assurance on heavy duty loads.
- ◆ Catalog number and conductor sizes marked on every piece insures positive identification.
- ◆ Positive cable stops insure proper insertion of conductors to full depth.
- ◆ Can be installed with existing crimping tools. Die color coding conforms to industry standards to insure proper connector/die selection

- ◆ and to provide for faster installation.
- ◆ BCU & BBCU Splices are suitable for use at voltages up to 35KV provided connector is taped in accordance with accepted practices, 5 KV is maximum voltage level in all bare splice applications.
- ◆ NEW FEATURE – UL/CSA approved with Versa-Crimp® tooling and wire ranges. Versa-Crimp® is a registered trademark of Hubbell Incorporated.
- ◆ Additional wire recommendations, see Master Catalog.

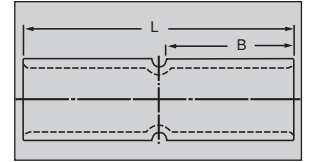


COLOR-CODED COPPER COMPRESSION CONNECTORS



| Connector Family | UL 486A/CSA 22.2 No. 65 Wire Range | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|----------------------------|------------------------------------|------------------------|---------------------|---------------|----------------------------|---------------------|---------------|
| | | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| BLL, BBLU, BBLZ, BCU, BBCU | 8 Str.-2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |

POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



| Catalog Number | Copper Cond. Range† | Wire Diam. (in) ± | Approx. Dimensions (in inches) | | Die Color Code | Crimping Tool Reference+++ | | | | |
|----------------|---------------------|-------------------|--------------------------------|--------|----------------|----------------------------|------------------|--------------|------------------|----------|
| | | | | | | Penn-Union | | Alt. Tooling | | |
| | | | | | | PUC Dies | Pressure Setting | | Burndy Index No. | T&B Die |
| BCU-8 | 8 Str. | .146 | 15/32 | 1 1/16 | Red | T-6* | | | B-6 | 21 |
| BCU-6 | 6 Str. | .184 | 13/16 | 1 3/4 | Blue | T-7*/T-374* | | | B-7 | 24 |
| BCU-5 | 5 Str. | .206 | 13/16 | 1 3/4 | Blue | T-7*/T-374* | | | B-7 | - |
| BCU-4 | 4 Str. | .232 | 13/16 | 1 3/4 | Gray | T-8*/T-346* | | | B-8 | 29 |
| BCU-3 | 3 Str. | .260 | 13/16 | 1 3/4 | White | T-9* | | | B-9 | - |
| BCU-2 | 2 Str. | .292 | 7/8 | 1 7/8 | Brown | T-10 | | | B-10 | 33 |
| BCU-1 | 1 Str. | .332 | 7/8 | 1 7/8 | Green | T-11/375 | 2 | | B-11 | 37 |
| BCU-1/0 | 1/0 Str. | .375 | 7/8 | 1 7/8 | Pink | T-12/348 | | | B-12 | 42 |
| BCU-2/0 | 2/0 Str. | .419 | 15/16 | 2 | Black | T-13 | | | B-13 | 45 |
| BCU-3/0 | 3/0 Str. | .470 | 1 | 2 1/8 | Orange | T-14 | | | B-14 | 50 |
| BCU-4/0 | 4/0 Str. | .528 | 1 | 2 1/8 | Purple | T-15 | 5 | 5 | B-15 | 54 |
| BCU-025 | 250 MCM | .575 | 1 1/16 | 2 1/4 | Yellow | T-16 | | | B-16 | 62 |
| BCU-030 | 300 MCM | .634 | 1 1/16 | 2 1/4 | White | T-17* | | | B-17 | 66H/66 |
| BCU-035 | 350 MCM | .682 | 1 1/8 | 2 3/8 | Red | T-18/324 | 7 | 7 | B-18 | 71H/71 |
| BCU-040 | 400 MCM | .728 | 1 3/16 | 2 1/2 | Blue | T-19*/470* | | | B-19 | 76H/76 |
| BCU-045 | 450 MCM | .772 | 1 3/8 | 2 7/8 | Blue | T-19*/470* | | | B-19 | 76H/76 |
| BCU-050 | 500 MCM | .815 | 1 3/8 | 2 7/8 | Brown | T-20/299 | | | B-20 | 87 |
| BCU-060 | 600 MCM | .893 | 1 3/8 | 2 7/8 | Green | T-22/472 | | | B-22 | 94H/94 |
| BCU-065 | 650 MCM | .930 | 1 3/8 | 2 7/8 | Black | - | 9 | 9 | B-300 | 99 |
| BCU-075 | 750 MCM | .999 | 1 5/8 | 3 3/8 | Black | T-24*/473 | | | B-24 | 106H/106 |
| BCU-080 | 800 MCM | 1.031 | 1 5/8 | 3 3/8 | Orange | - | | | B-25 | 107H/107 |
| BCU-100 | 1000 MCM | 1.153 | 1 7/8 | 3 7/8 | White | - | 9*** | 9*** | B-27 | 125 |
| BCU-150 | 1500 MCM | 1.412 | 2 | 4 1/8 | Green | - | | | B-31 | - |
| BCU-200 | 2000 MCM | 1.632 | 2 1/4 | 4 5/8 | Brown | - | | | B-34 | - |

LONG BARREL SPLICES

| | | | | | | | | | | |
|----------|----------|-------|---------|-------|--------|-------------|------|------|-------|----------|
| BBCU-8 | 8 Str. | .146 | 15/16 | 2 | Red | T-6* | | | B-6 | 21 |
| BBCU-6 | 6 Str. | .184 | 1 1/8 | 2 3/8 | Blue | T-7*/T-374* | | | B-7 | 24 |
| BBCU-4 | 4 Str. | .232 | 1 1/8 | 2 3/8 | Gray | T-8*/T-346* | | | B-8 | 29 |
| BBCU-3 | 3 Str. | .260 | 1 1/8 | 2 3/8 | White | T-9* | | | B-9 | - |
| BBCU-2 | 2 Str. | .292 | 1 1/4 | 2 5/8 | Brown | T-10 | | | B-10 | 33 |
| BBCU-1 | 1 Str. | .332 | 1 3/8 | 2 7/8 | Green | T-11/375 | 2 | | B-11 | 37 |
| BBCU-1/0 | 1/0 Str. | .375 | 1 3/8 | 2 7/8 | Pink | T-12/348 | | | B-12 | 42 |
| BBCU-2/0 | 2/0 Str. | .419 | 1 1/2 | 3 1/8 | Black | T-13 | | | B-13 | 45 |
| BBCU-3/0 | 3/0 Str. | .470 | 1 1/2 | 3 1/8 | Orange | T-14 | | | B-14 | 50 |
| BBCU-4/0 | 4/0 Str. | .528 | 1 5/8 | 3 3/8 | Orange | T-15 | 5 | 5 | B-15 | 54 |
| BBCU-025 | 250 MCM | .575 | 1 5/8 | 3 3/8 | Yellow | T-16 | | | B-16 | 62 |
| BBCU-030 | 300 MCM | .634 | 2 | 4 1/8 | White | T-17* | | | B-17 | 66H/66 |
| BBCU-035 | 350 MCM | .682 | 2 | 4 1/8 | Red | T-18/324 | 7 | 7 | B-18 | 71H/71 |
| BBCU-040 | 400 MCM | .728 | 2 1/8 | 4 3/8 | Blue | T-19*/470* | | | B-19 | 76H/76 |
| BBCU-050 | 500 MCM | .815 | 2 1/4 | 4 5/8 | Brown | T-20/299 | | | B-20 | 87 |
| BBCU-060 | 600 MCM | .893 | 2 1/16 | 5 1/2 | Green | T-22/472 | | | B-22 | 94H/94 |
| BBCU-065 | 650 MCM | .930 | 2 3/4 | 5 5/8 | Pink | - | 9 | 9 | B-300 | 99 |
| BBCU-075 | 750 MCM | .999 | 2 7/8 | 5 7/8 | Black | T-24*/473* | | | B-24 | 106H/106 |
| BBCU-080 | 800 MCM | 1.031 | 2 15/16 | 6 | Orange | - | | | B-25 | 107H/107 |
| BBCU-100 | 1000 MCM | 1.153 | 3 | 6 1/8 | White | - | 9*** | 9*** | B-27 | 125 |
| BBCU-150 | 1500 MCM | 1.412 | 3 3/16 | 6 1/2 | Green | - | | | B-31 | - |
| BBCU-200 | 2000 MCM | 1.632 | 3 7/16 | 7 | Brown | - | | | B-34 | - |

NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog

* Consult factory for availability of dies not available at this time.

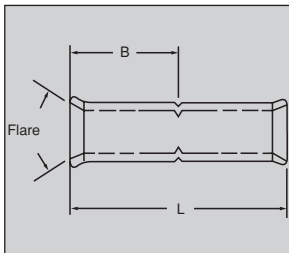
FLARED COPPER PENN-CRIMPS® • TYPE BCU-FL, BBCU-FL

Crimp splices for #4 (105/24) thru 1111 MCM (275/24) diesel locomotive cable and class G, H, I, & K flexible cable

- ◆ Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer and wide flare provide easy cable insertion even for fine stranded extra flexible cable. Type BBCU has longer length barrel which permits extra crimps for additional assurance on heavy duty loads. See Master Catalog for flexible cable recommendation and listing.
- ◆ Catalog number and conductor size marked on every piece insures positive identification.
- ◆ Positive cable stops insure proper insertion of conductors to full depth.
- ◆ Can be installed with

existing crimping tools. Die color-coding conforms to industry standards to insure proper connector/die selection and to provide for faster installation.

- ◆ BCU & BBCU Splices are suitable for use at voltages up to 35 KV provided connector is taped in accordance with accepted practices, 5 KV is maximum voltage level in all bare splice applications.



COLOR-CODED
COPPER COMPRESSION CONNECTORS



| Connector Family | UL 486A/ CSA22.2 No. 65 Wire Range | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|----------------------------|------------------------------------|------------------------|---------------------|---------------|----------------------------|---------------------|---------------|
| | | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| BLU, BBLU, BBLZ, BCU, BBCU | 8 Str. - 2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |

POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



**NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS**

| Catalog Number | Diesel Locomotive Cable Range | Stranding | Approximate Dimensions (in inches) | | Die Color Code | Flex Wire Crimping Tool Reference | | | | |
|----------------|-------------------------------|-----------|------------------------------------|-------|----------------|-----------------------------------|-------|-------|--------------|-----------|
| | | | | | | PENN-UNION | | | Alt. Tooling | |
| | | | B | L | | TDM-250 | TDY-1 | TDY-U | Burndy Index | T & B Die |
| BCU-3-FL | 4 AWG | 105/24 | 13/16 | 1 3/4 | White | XF | 2 | - | B-9 | - |
| BCU-1-FL | 2 AWG | 150/24 | 7/8 | 1 7/8 | Green | XF | 2 | - | B-11 | 37 |
| BCU-1/0-FL | 1 AWG | 225/24 | 7/8 | 1 7/8 | Pink | XF | 2 | - | B-12 | 42 |
| BCU-2/0-FL | 1/0 AWG | 275/24 | 15/16 | 2 | Black | XF | 2 | - | B-13 | 45 |
| BCU-3/0-FL | 2/0 AWG | 325/24 | 1 | 2 1/8 | Orange | XF | 5 | 5 | B-14 | 50 |
| BCU-4/0-FL | 3/0 AWG | 450/24 | 1 | 2 1/8 | Purple | XF | 5 | 5 | B-15 | 54 |
| BCU-030-FL | 4/0 AWG | 550/24 | 1 1/16 | 2 1/4 | White | - | 7 | 7 | B-17 | 66H/66 |
| BCU-035-FL | 262 MCM | 650/24 | 1 1/8 | 2 3/8 | Red | - | 7 | 7 | B-18 | 71H/71 |
| BCU-040-FL | 313 MCM | 775/24 | 1 3/16 | 2 1/2 | Blue | - | 7 | 7 | B-19 | 76H/76 |
| BCU-050-FL | 373 MCM | 925/24 | 1 3/8 | 2 7/8 | Brown | - | 9 | 9 | B-20 | 87 |
| BCU-060-FL | 444 MCM | 1100/24 | 1 3/8 | 2 7/8 | Green | - | 9 | 9 | B-22 | 94H/94 |
| BCU-065-FL | 535 MCM | 1325/24 | 1 3/8 | 2 7/8 | Pink | - | 9 | 9 | B-300 | 99 |
| BCU-075-FL | 646 MCM | 1600/24 | 1 5/8 | 3 3/8 | Black | - | 9 | 9 | B-24 | 106H/106 |
| BCU-100-FL | 777 MCM | 1925/24 | 1 7/8 | 3 7/8 | White | - | 9* | 9* | B-27 | 125 |
| BCU-150-FL | 1111 MCM | 2750/24 | 2 | 4 1/8 | Green | - | - | - | B-31 | - |

LONG BARREL SPLICES

| | | | | | | | | | | |
|-------------|----------|---------|---------|-------|--------|----|----|----|-------|----------|
| BBCU-3-FL | 4 AWG | 105/24 | 1 1/8 | 2 3/8 | White | XF | 2 | - | B-9 | - |
| BBCU-1-FL | 2 AWG | 150/24 | 1 3/8 | 2 7/8 | Green | XF | 2 | - | B-11 | 37 |
| BBCU-1/0-FL | 1 AWG | 225/24 | 1 3/8 | 2 7/8 | Pink | XF | 2 | - | B-12 | 42 |
| BBCU-2/0-FL | 1/0 AWG | 275/24 | 1 1/2 | 3 1/8 | Black | XF | 2 | - | B-13 | 45 |
| BBCU-3/0-FL | 2/0 AWG | 325/24 | 1 1/2 | 3 1/8 | Orange | XF | 5 | 5 | B-14 | 50 |
| BBCU-4/0-FL | 3/0 AWG | 450/24 | 1 5/8 | 3 3/8 | Purple | XF | 5 | 5 | B-15 | 54 |
| BBCU-030-FL | 4/0 AWG | 550/24 | 2 | 4 1/8 | White | - | 7 | 7 | B-17 | 66H/66 |
| BBCU-035-FL | 262 MCM | 650/24 | 2 | 4 1/8 | Red | - | 7 | 7 | B-18 | 71H/71 |
| BBCU-040-FL | 313 MCM | 775/24 | 2 1/8 | 4 3/8 | Blue | - | 7 | 7 | B-19 | 76H/76 |
| BBCU-050-FL | 373 MCM | 925/24 | 2 1/4 | 4 5/8 | Brown | - | 9 | 9 | B-20 | 87 |
| BBCU-060-FL | 444 MCM | 1100/24 | 2 1/16 | 5 1/2 | Green | - | 9 | 9 | B-22 | 94H/94 |
| BBCU-065-FL | 535 MCM | 1325/24 | 2 23/32 | 5 5/8 | Pink | - | 9 | 9 | B-300 | 99 |
| BBCU-075-FL | 646 MCM | 1600/24 | 2 7/8 | 5 7/8 | Black | - | 9 | 9 | B-24 | 106H/106 |
| BBCU-100-FL | 777 MCM | 1925/24 | 3 | 6 1/8 | White | - | 9* | 9* | B-27 | 125 |
| BBCU-150-FL | 1111 MCM | 2750/24 | 3 3/16 | 6 1/2 | Green | - | - | - | B-31 | - |

* with Flex wire only

COPPER PENN-CRIMPS® TELECOMMUNICATION LUGS • TYPE BLU-2TC

2 hole standard barrel lugs for #8 stranded thru 1000 MCM

- ◆ Seamless, one piece, copper construction with tin plating assures maximum conductivity.
- ◆ Generous entrance chamfer provides easy cable insertion.
- ◆ End of cable is visible through the inspection window to assure proper cable insertion.
- ◆ Catalog number and conductor sizes marked on every piece insures positive identification.
- ◆ 45° and 90° variations are UL listed and CSA certified. Contact factory for price and availability.
- ◆ Can be installed with existing crimping tools.
- ◆ Die color coding conforms to industry standards to insure proper connector/die selection and to provide for faster installation.
- ◆ Accepts the same wide range of additional wire sizes and types as our standard BLU, BBLU, BBLZ, BCU, and BBCU series.
- ◆ UL/CSA approved with Versa-Crimp® tooling and wire ranges. Versa-Crimp® is a registered trademark of Hubbell Incorporated.
- ◆ BLU lugs are suitable for use at voltages up to 35KV.



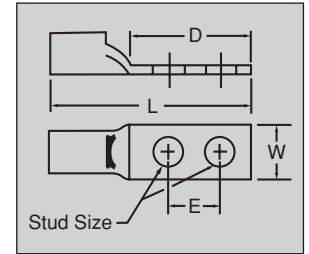
COLOR-CODED COPPER COMPRESSION CONNECTORS



| Connector Family | UL 486A/ CSA22.2 No. 65 Wire Range | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|----------------------------|------------------------------------|------------------------|---------------------|---------------|----------------------------|---------------------|---------------|
| | | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| BLU, BBLU, BBLZ, BCU, BBCU | # Str. - 2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |

POWER: UL 486A, CSA C22.2 NO. 65

GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



| Catalog Number | Copper Cond. Range+ | Wire Dia. (in) ++ | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | | |
|-------------------|---------------------|-------------------|-----------|------------------------------------|--------|------------|--------|----------------|------------------------------|------------------------------|----------|------------------|---------|----|
| | | | | Hole Space E | Wide W | Pad Lgth D | Lgth L | | PENN-UNION | | | Alt. Tooling | | |
| | | | | | | | | | Dieless Mechanical | Pressure Setting TDY-1 TDY-U | PUC Dies | Burndy Index No. | T&B Die | |
| BLU-8D-2TC10 | #8 | .146 | 10 | 5/8 | .41 | 1.13 | 1.78 | Red | PUC TDM-250 or TDM-500 | - | - | T-6 | B-6 | 21 |
| BLU-8D-2TC14 | | | 1/4 | 5/8 | .41 | 1.22 | 1.88 | | | | | | | |
| BLU-8D-2TC14E2 | | | 1/4 | 3/4 | .41 | 1.36 | 2.01 | | | | | | | |
| BLU-8D-2TC14E1 | | | 1/4 | 1 | .41 | 1.61 | 2.26 | | | | | | | |
| BLU-8D-2TC38 | | | 3/8 | 1 | .56 | 1.83 | 2.48 | | | | | | | |
| BLU-6D-2TC10 | #6 | .184 | 10 | 5/8 | .41 | 1.22 | 2.25 | Blue | PUC TDM-250 or TDM-500 | - | - | T-7*/374* | B-7 | 24 |
| BLU-6D-2TC14 | | | 1/4 | 5/8 | .41 | 1.22 | 2.25 | | | | | | | |
| BLU-6D-2TC14E2 | | | 1/4 | 3/4 | .41 | 1.36 | 2.42 | | | | | | | |
| BLU-6D-2TC14E1 | | | 1/4 | 1 | .41 | 1.61 | 2.67 | | | | | | | |
| BLU-6D-2TC516E2 | | | 5/16 | 3/4 | .61 | 1.47 | 2.54 | | | | | | | |
| BLU-6D-2TC516 | | | 5/16 | 1 | .61 | 1.72 | 2.79 | | | | | | | |
| BLU-6D-2TC38 | | | 3/8 | 1 | .61 | 1.83 | 2.90 | | | | | | | |
| BLU-6DN | | | 1/2 | 1 3/4 | .81 | 3.00 | 4.07 | | | | | | | |
| BLU-5D-2TC14 | #5 | .206 | 1/4 | 5/8 | .44 | 1.22 | 2.25 | Blue | PUC NONE | - | - | T-7*/374* | B-7 | 24 |
| BLU-4D-2TC14 | #4 | .232 | 1/4 | 5/8 | .50 | 1.22 | 2.33 | Gray | PUC TDM-250 or TDM-500 | 2 | - | T-8*/346* | B-8 | 29 |
| BLU-4D-2TC14E2 | | | 1/4 | 3/4 | .50 | 1.36 | 2.43 | | | | | | | |
| BLU-4D-2TC14E1 | | | 1/4 | 1 | .50 | 1.61 | 2.68 | | | | | | | |
| BLU-4D-2TC516 | | | 5/16 | 1 | .61 | 1.72 | 2.78 | | | | | | | |
| BLU-4D-2TC38 | | | 3/8 | 1 | .61 | 1.83 | 2.89 | | | | | | | |
| BLU-4D1 | 1/2 | 1 3/4 | .94 | 2.88 | 3.94 | | | | | | | | | |
| BLU-3D-2TC14 | ** #3 | .260 | 1/4 | 5/8 | .65 | 1.22 | 2.32 | White | PUC NONE | 2 | - | T-9* | B-9 | - |
| BLU-3D-2TC51658 | | | 5/16 | 5/8 | .65 | 1.34 | 2.47 | | | | | | | |
| BLU-3D-2TC38 | | | 3/8 | 1 | .65 | 1.83 | 2.93 | | | | | | | |
| BLU-2D-2TC14 | #2 | .292 | 1/4 | 5/8 | .59 | 1.22 | 2.32 | Brown | PUC TDM-250 or TDM-500 | 2 | - | T-10 | B-10 | 33 |
| BLU-2D-2TC14E2 | | | 1/4 | 3/4 | .59 | 1.36 | 2.49 | | | | | | | |
| BLU-2D-2TC14E1 | | | 1/4 | 1 | .59 | 1.61 | 2.74 | | | | | | | |
| BLU-2D-2TC516E2 | | | 5/16 | 3/4 | .59 | 1.47 | 2.60 | | | | | | | |
| BLU-2D-2TC516 | | | 5/16 | 1 | .59 | 1.72 | 2.85 | | | | | | | |
| BLU-2D-2TC38 | | | 3/8 | 1 | .59 | 1.83 | 2.96 | | | | | | | |
| BLU-2D2 | | | 1/2 | 1 3/4 | .81 | 2.88 | 3.98 | | | | | | | |
| BLU-1D-2TC14 | #1 | .332 | 1/4 | 5/8 | .67 | 1.22 | 2.41 | Green | PUC TDM-250 or TDM-500 | 2 | - | T-11/375 | B-11 | 37 |
| BLU-1D-2TC14E2 | | | 1/4 | 3/4 | .67 | 1.36 | 2.55 | | | | | | | |
| BLU-1D-2TC516E6 | | | 5/16 | 7/8 | .67 | 1.62 | 2.79 | | | | | | | |
| BLU-1D-2TC38 | | | 3/8 | 1 | .67 | 1.83 | 3.02 | | | | | | | |
| BLU-1D5 | | | 1/2 | 1 3/4 | .78 | 2.88 | 4.06 | | | | | | | |
| BLU-1/0D-2TC14 | 1/0 | .375 | 1/4 | 5/8 | .74 | 1.22 | 2.44 | Pink | PUC TDM-250 or TDM-500 | 2 | - | T-12/348 | B-12 | 42 |
| BLU-1/0D-2TC14E2 | | | 1/4 | 3/4 | .74 | 1.36 | 2.58 | | | | | | | |
| BLU-1/0D-2TC516E6 | | | 5/16 | 7/8 | .74 | 1.62 | 2.81 | | | | | | | |
| BLU-1/0D-2TC516 | | | 5/16 | 1 | .74 | 1.72 | 2.94 | | | | | | | |
| BLU-1/0D-2TC38 | | | 3/8 | 1 | .74 | 1.83 | 3.02 | | | | | | | |
| BLU-1/0D-2NTC38 | | | 3/8 | 1 3/4 | .74 | 2.58 | 3.77 | | | | | | | |
| BLU-1/0D2 | | | 1/2 | 1 3/4 | .81 | 2.88 | 4.09 | | | | | | | |

NEW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS
NEW FEATURE!

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog
 *(Also #2 Sol)
 ** Consult factory for availability of dies not available at this time.
 *** CUAD-1000

COPPER PENN-CRIMPS® • TYPE BLU-2TC

Continued from page Recent Additions 13

**NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS**

| Catalog Number | Copper Cond. Range+ | Wire Dia. (in) ++ | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | | |
|-------------------|---------------------|-------------------|-----------|------------------------------------|--------|------------|--------|----------------|----------------------------|------------------|------|--------------|------------------|----------|
| | | | | Hole Space E | Wide W | Pad Lgth D | Lgth L | | PENN-UNION | | | Alt. Tooling | | |
| | | | | | | | | | Dieless Mechanical | Pressure Setting | | PUC Dies | Burndy Index No. | T&B Die |
| | | | | TDY-1 | TDY-U | | | | | | | | | |
| BLU-2/0D-2TC14 | 2/0 | .419 | 1/4 | 5/8 | .82 | 1.22 | 2.50 | Black | PUC TDM-250 or TDM-500 | 2 | - | T-13 | B-13 | 45 |
| BLU-2/0D-2TC14E2 | | | 1/4 | 3/4 | .82 | 1.36 | 2.64 | | | | | | | |
| BLU-2/0D-2TC14E1 | | | 1/4 | 1 | .82 | 1.61 | 2.89 | | | | | | | |
| BLU-2/0D-2TC516E6 | | | 5/16 | 7/8 | .82 | 1.62 | 2.88 | | | | | | | |
| BLU-2/0D-2TC516 | | | 5/16 | 1 | .82 | 1.72 | 3.00 | | | | | | | |
| BLU-2/0D-2TC38 | | | 3/8 | 1 | .82 | 1.83 | 3.08 | | | | | | | |
| BLU-2/0D | | | 1/2 | 1 3/4 | .82 | 2.88 | 4.13 | | | | | | | |
| BLU-3/0D-2TC14E2 | 3/0 | .470 | 1/4 | 3/4 | .89 | 1.36 | 2.77 | Orange | PUC TDM-250 or TDM-500 | 5 | 5 | T-14 | B-14 | 50 |
| BLU-3/0D-2TC516 | | | 5/16 | 1 | .89 | 1.72 | 3.13 | | | | | | | |
| BLU-3/0D-2TC38 | | | 3/8 | 1 | .89 | 1.83 | 3.24 | | | | | | | |
| BLU-3/0D | | | 1/2 | 1 3/4 | .89 | 2.88 | 4.25 | | | | | | | |
| BLU-4/0D-2TC14E2 | 4/0 | .528 | 1/4 | 3/4 | 1.00 | 1.36 | 2.83 | Purple | PUC TDM-250 or TDM-500 | 5 | 5 | T-15 | B-15 | 54 |
| BLU-4/0D-2TC14E1 | | | 1/4 | 1 | 1.00 | 1.61 | 3.08 | | | | | | | |
| BLU-4/0D-2TC516 | | | 5/16 | 1 | 1.00 | 1.72 | 3.18 | | | | | | | |
| BLU-4/0D-2TC38 | | | 3/8 | 1 | 1.00 | 1.83 | 3.30 | | | | | | | |
| BLU-4/0D | | | 1/2 | 1 3/4 | 1.00 | 2.88 | 4.31 | | | | | | | |
| BLU-025D-2TC38 | 250 | .575 | 3/8 | 1 | 1.09 | 1.83 | 3.43 | Yellow | PUC TDM250 or TDM-500 | 5 | 5 | T-16 | B-16 | 62 |
| BLU-025D | | | 1/2 | 1 3/4 | 1.09 | 2.88 | 4.44 | | | | | | | |
| BLU-030D-2TC516 | 300 | .634 | 5/16 | 1 | 1.19 | 1.72 | 3.37 | White | PUC TDM-500 | 7 | 7 | T-17* | B-17 | 66H/66 |
| BLU-030D-2TC38 | | | 3/8 | 1 | 1.19 | 1.83 | 3.50 | | | | | | | |
| BLU-030D | | | 1/2 | 1 3/4 | 1.19 | 2.88 | 4.50 | | | | | | | |
| BLU-035D-2TC14E2 | 350 | .682 | 1/4 | 3/4 | 1.28 | 1.36 | 3.14 | Red | PUC TDM-500 | 7 | 7 | T-18/324 | B-18 | 71H/71 |
| BLU-035D-2NTC516 | | | 5/16 | 1 3/4 | 1.28 | 2.88 | 4.63 | | | | | | | |
| BLU-035D-2TC38 | | | 3/8 | 1 | 1.28 | 1.83 | 3.61 | | | | | | | |
| BLU-035D-2TC12 | | | 1/2 | 1 1/4 | 1.28 | 2.40 | 4.18 | | | | | | | |
| BLU-035D | | | 1/2 | 1 3/4 | 1.28 | 2.88 | 4.63 | | | | | | | |
| BLU-040D-2TC516 | 400 | .728 | 5/16 | 1 | 1.39 | 1.72 | 3.63 | Blue | PUC TDM-500 | 7 | 7 | T-19*/470* | B-19 | 76H/76 |
| BLU-040D-2TC38 | | | 3/8 | 1 | 1.39 | 1.83 | 3.74 | | | | | | | |
| BLU-040D | | | 1/2 | 1 3/4 | 1.39 | 2.88 | 4.75 | | | | | | | |
| BLU-050D-2TC14E2 | 500 | .815 | 1/4 | 3/4 | 1.53 | 1.36 | 3.52 | Brown | PUC TDM-500 | 9 | 9 | T-20/299 | B-20 | 87 |
| BLU-050D-2TC38 | | | 3/8 | 1 | 1.53 | 1.83 | 3.99 | | | | | | | |
| BLU-050D-2TC12 | | | 1/2 | 1 1/4 | 1.53 | 2.40 | 4.56 | | | | | | | |
| BLU-050D | | | 1/2 | 1 3/4 | 1.53 | 2.88 | 5.00 | | | | | | | |
| BLU-060D-2TC38 | 600 | .893 | 3/8 | 1 | 1.72 | 1.83 | 4.08 | Green | PUC NONE | 9 | 9 | T-22/472 | B-22 | 94H/94 |
| BLU-060D | | | 1/2 | 1 3/4 | 1.72 | 2.88 | 5.09 | | | | | | | |
| BLU-065D-2TC38 | 650 | .930 | 3/8 | 1 | 1.78 | 1.83 | 4.08 | Pink | PUC NONE | 9 | 9 | - | B-300 | 99 |
| BLU-065D-2TC12 | | | 1/2 | 1 1/4 | 1.78 | 2.40 | 4.65 | | | | | | | |
| BLU-065D | | | 1/2 | 1 3/4 | 1.78 | 2.88 | 5.09 | | | | | | | |
| BLU-075D-2TC38 | 750 | .999 | 3/8 | 1 | 1.91 | 1.83 | 4.43 | Black | PUC NONE | 9 | 9 | T-24*/473 | B-24 | 106H/106 |
| BLU-075D-2TC12E3 | | | 1/2 | 1 1/2 | 1.91 | 2.65 | 5.25 | | | | | | | |
| BLU-075D | | | 1/2 | 1 3/4 | 1.91 | 2.88 | 5.44 | | | | | | | |
| BLU-080D-2TC38 | 800 | 1.031 | 3/8 | 1 | 1.97 | 1.83 | 4.49 | Orange | PUC NONE | - | - | - | B-25 | 107H/107 |
| BLU-080D | | | 1/2 | 1 3/4 | 1.97 | 2.88 | 5.53 | | | | | | | |
| BLU-100D-2TC38 | 1000 | 1.153 | 3/8 | 1 | 2.17 | 1.83 | 4.83 | White | PUC NONE | 9*** | 9*** | - | B-27 | 125 |
| BLU-100D-2TC12 | | | 1/2 | 1 1/4 | 2.17 | 2.40 | 5.40 | | | | | | | |
| BLU-100D | | | 1/2 | 1 3/4 | 2.17 | 2.88 | 5.87 | | | | | | | |

+ Concentric, compressed and compact stranding.

++ For conversion to metric range see Master Catalog

+++ For additional tool references see Master Catalog

**(Also #2 Sol)

*** CUAD-1000

* Consult factory for availability of dies not available at this time.

COPPER PENN-CRIMPS® TELECOMMUNICATION LUGS • TYPE BBLU-2TC

2 hole long barrel lugs for #8 stranded thru 2000 MCM

- ◆ Longer length barrel permits extra crimps for additional assurance on heavy duty loads.
- ◆ Seamless, one piece, pure copper construction with tin plating assures maximum conductivity.
- ◆ Generous entrance chamfer provides easy cable insertion.
- ◆ End of cable is protected from environmental hazards by completely closed transition.
- ◆ Catalog number and conductor sizes marked on every piece insures positive identification.
- ◆ 45° and 90° variations are UL listed and CSA certified. Contact factory for price and availability.

- ◆ Can be installed with existing crimping tools.
- ◆ Die color coding conforms to industry requirements to insure proper connector/die selection and to provide for faster installation.
- ◆ Accepts the same wide range of additional wire sizes and types as our standard BBLU series.
- ◆ New feature - UL/CSA approved with Versa-Crimp® tooling and wire ranges. Versa-Crimp® is a registered trademark of Hubbell Incorporated.
- ◆ BBLU lugs are suitable for use at voltages up to 35KV.



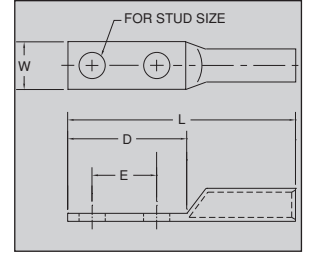
COLOR-CODED COPPER COMPRESSION CONNECTORS



| Connector Family | POWER | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|-----------------------------|------------------------------------|------------------------|---------------------|---------------|----------------------------|---------------------|---------------|
| | UL 486A/ CSA22.2 No. 65 Wire Range | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| BBLU, BBLU, BBLZ, BCU, BCCU | 8 Str. - 2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |

POWER: UL 486A, CSA C22.2 NO. 65

GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



| Catalog Number | Copper Cond. Range+ | Wire Dia. (in) ++ | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | | |
|-----------------|---------------------|-------------------|-----------|------------------------------------|------|------|------|----------------|----------------------------|------------------|---|--------------|------------------|---------|
| | | | | E | W | D | L | | PENN-UNION | | | Alt. Tooling | | |
| | | | | | | | | | Dieless Mechanical | Pressure Setting | | PUC Dies | Burndy Index No. | T&B Die |
| BBLU-8D-2TC14 | #8 | .146 | 1/4 | .63 | .41 | 1.22 | 2.44 | Red | PUC TDM-250 or TDM-500 | - | - | T-6 | B-6 | 21 |
| BBLU-8D-2TC14E2 | | | | .75 | .41 | 1.36 | 2.58 | | | | | | | |
| BBLU-8D-2TC38E3 | | | | .81 | .56 | 1.83 | 3.05 | | | | | | | |
| BBLU-8D-2TC38 | | | | 1 | .56 | 1.83 | 3.05 | | | | | | | |
| BBLU-6D-2TC14 | #6 | .184 | 1/4 | .63 | .41 | 1.22 | 2.60 | Blue | PUC TDM-250 or TDM-500 | - | - | T-7*/374* | B-7 | 24 |
| BBLU-6D-2TC14E2 | | | | .75 | .41 | 1.36 | 2.74 | | | | | | | |
| BBLU-6D-2TC38E2 | | | | .75 | .61 | 1.58 | 2.96 | | | | | | | |
| BBLU-6D-2TC38E3 | | | | .81 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLU-6D-2TC38 | | | | 1 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLU-6DN | | | 1/2 | 1.75 | .81 | 3.00 | 4.38 | | | | | | | |
| BBLU-5D-2TC14 | #5 | .206 | 1/4 | .63 | .44 | 1.22 | 2.60 | Blue | PUC NONE | - | - | T-7*/374* | B-7 | 24 |
| BBLU-5D-2TC14E2 | | | | .75 | .44 | 1.36 | 2.74 | | | | | | | |
| BBLU-5D-2TC38E2 | | | | .75 | .61 | 1.58 | 2.96 | | | | | | | |
| BBLU-5D-2TC38E3 | | | | .81 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLU-5D-2TC38 | | | | 1 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLU-4D-2TC14 | #4 | .232 | 1/4 | .63 | .50 | 1.22 | 2.60 | Gray | PUC TDM-250 or TDM-500 | 2 | - | T-8*/346* | B-8 | 29 |
| BBLU-4D-2TC14E2 | | | | .75 | .50 | 1.36 | 2.74 | | | | | | | |
| BBLU-4D-2TC38E2 | | | | .75 | .61 | 1.58 | 2.96 | | | | | | | |
| BBLU-4D-2TC38E3 | | | | .81 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLU-4D-2TC38 | | | | 1 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLU-4D1 | | | 1/2 | 1.75 | .94 | 3.00 | 4.38 | | | | | | | |
| BBLU-3D-2TC14 | ** #3 | .260 | 1/4 | .63 | .65 | 1.22 | 2.60 | White | PUC NONE | 2 | - | T-9* | B-9 | - |
| BBLU-3D-2TC14E2 | | | | .75 | .65 | 1.36 | 2.74 | | | | | | | |
| BBLU-3D-2TC38E2 | | | | .75 | .65 | 1.58 | 2.96 | | | | | | | |
| BBLU-3D-2TC38E3 | | | | .81 | .65 | 1.83 | 3.21 | | | | | | | |
| BBLU-3D-2TC38 | | | | 1 | .65 | 1.83 | 3.21 | | | | | | | |
| BBLU-2D-2TC14 | #2 | .292 | 1/4 | .63 | .59 | 1.22 | 2.75 | Brown | PUC TDM-250 or TDM-500 | 2 | - | T-10 | B-10 | 33 |
| BBLU-2D-2TC14E2 | | | | .75 | .59 | 1.36 | 2.89 | | | | | | | |
| BBLU-2D-2TC38E2 | | | | .75 | .59 | 1.58 | 3.11 | | | | | | | |
| BBLU-2D-2TC38E3 | | | | .81 | .59 | 1.83 | 3.36 | | | | | | | |
| BBLU-2D-2TC38 | | | | 1 | .59 | 1.83 | 3.36 | | | | | | | |
| BBLU-2D-2NTC38 | | | | 3/8 | 1.75 | .59 | 2.58 | | | | | | | |
| BBLU-2D6 | 1/2 | 1.75 | .81 | 3.00 | 4.53 | | | | | | | | | |
| BBLU-1D-2TC14 | #1 | .332 | 1/4 | .63 | .67 | 1.22 | 2.94 | Green | PUC TDM-250 or TDM-500 | 2 | - | T-11/375 | B-11 | 37 |
| BBLU-1D-2TC14E2 | | | | .75 | .67 | 1.36 | 3.08 | | | | | | | |
| BBLU-1D-2TC38E2 | | | | .75 | .67 | 1.58 | 3.30 | | | | | | | |
| BBLU-1D-2TC38E3 | | | | .81 | .67 | 1.83 | 3.55 | | | | | | | |
| BBLU-1D-2TC38 | | | | 1 | .67 | 1.83 | 3.55 | | | | | | | |
| BBLU-1D2 | | | | 1/2 | 1.75 | .78 | 3.00 | | | | | | | |

NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS
NEW FEATURE!

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog

** (Also #2 Sol)
 *** CUAD-1000

* Consult factory for availability of dies not available at this time.

COPPER PENN-CRIMPS® TELECOMMUNICATION LUGS • TYPE BBLU-2TC

Continued from page Recent Additions 15

**NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS**

| Catalog Number | Copper Cond. Range+ | Wire Dia. (in) ++ | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | | |
|--------------------|---------------------|-------------------|-----------|---------------------------------------|-------|------|------|----------------|------------------------------|------------------|------|--------------|------------------|----------|
| | | | | E | W | D | L | | PENN-UNION | | | Alt. Tooling | | |
| | | | | | | | | | Dieless Mechanical | Pressure Setting | | PUC Dies | Burndy Index No. | T&B Die |
| | | | | TDY-1 | TDY-U | | | | | | | | | |
| BBLU-1/0D-2TC14 | 1/0 | .375 | 1/4 | .63 | .74 | 1.22 | 2.94 | Pink | PUC TDM-250 or TDM-500 | 2 | - | T-12/348 | B-12 | 42 |
| BBLU-1/0D-2TC14E2 | | | 1/4 | .75 | .74 | 1.36 | 3.08 | | | | | | | |
| BBLU-1/0D-2TC38E2 | | | 3/8 | .75 | .74 | 1.58 | 3.30 | | | | | | | |
| BBLU-1/0D-2TC38E3 | | | 3/8 | .81 | .74 | 1.83 | 3.55 | | | | | | | |
| BBLU-1/0D-2TC38 | | | 3/8 | 1 | .74 | 1.83 | 3.55 | | | | | | | |
| BBLU-1/0D-2NTC38 | | | 3/8 | 1.75 | .74 | 2.58 | 4.30 | | | | | | | |
| BBLU-1/0D3 | | | 1/2 | 1.75 | .81 | 3.00 | 4.72 | | | | | | | |
| BBLU-2/0D-2TC14 | 2/0 | .419 | 1/4 | .63 | .82 | 1.22 | 3.06 | Black | PUC TDM-250 or TDM-500 | 2 | - | T-13 | B-13 | 45 |
| BBLU-2/0D-2TC14E2 | | | 1/4 | .75 | .82 | 1.36 | 3.20 | | | | | | | |
| BBLU-2/0D-2TC38E2 | | | 3/8 | .75 | .82 | 1.58 | 3.42 | | | | | | | |
| BBLU-2/0D-2TC38E3 | | | 3/8 | .81 | .82 | 1.83 | 3.67 | | | | | | | |
| BBLU-2/0D-2TC38 | | | 3/8 | 1 | .82 | 1.83 | 3.67 | | | | | | | |
| BBLU-2/0D | | | 1/2 | 1.75 | .82 | 3.00 | 4.84 | | | | | | | |
| BBLU-3/0D-2TC14 | 3/0 | .470 | 1/4 | .63 | .89 | 1.22 | 3.13 | Orange | PUC TDM-250 or TDM-500 | 5 | 5 | T-14 | B-14 | 50 |
| BBLU-3/0D-2TC14E2 | | | 1/4 | .75 | .89 | 1.36 | 3.27 | | | | | | | |
| BBLU-3/0D-2TC38E2 | | | 3/8 | .75 | .89 | 1.58 | 3.49 | | | | | | | |
| BBLU-3/0D-2TC38E3 | | | 3/8 | .81 | .89 | 1.83 | 3.74 | | | | | | | |
| BBLU-3/0D-2TC38 | | | 3/8 | 1 | .89 | 1.83 | 3.74 | | | | | | | |
| BBLU-3/0D | | | 1/2 | 1.75 | .89 | 3.00 | 4.91 | | | | | | | |
| BBLU-4/0D-2TC14 | 4/0 | .528 | 1/4 | .63 | 1.00 | 1.22 | 3.32 | Purple | PUC TDM-250 or TDM-500 | 5 | 5 | T-15 | B-15 | 54 |
| BBLU-4/0D-2TC14E2 | | | 1/4 | .75 | 1.00 | 1.36 | 3.46 | | | | | | | |
| BBLU-4/0D-2TC38E2 | | | 3/8 | .75 | 1.00 | 1.58 | 3.68 | | | | | | | |
| BBLU-4/0D-2TC38E3 | | | 3/8 | .81 | 1.00 | 1.83 | 3.93 | | | | | | | |
| BBLU-4/0D-2TC38 | | | 3/8 | 1 | 1.00 | 1.83 | 3.93 | | | | | | | |
| BBLU-4/0D-2NTC38 | | | 3/8 | 1.75 | 1.00 | 2.58 | 4.68 | | | | | | | |
| BBLU-4/0D-2TC716E2 | | | 7/16 | .75 | 1.00 | 1.83 | 3.93 | | | | | | | |
| BBLU-4/0D | | | 1/2 | 1.75 | 1.00 | 3.00 | 5.10 | | | | | | | |
| | | | | | | | | | | | | | | |
| BBLU-025D-2TC14E2 | 250 | .575 | 1/4 | .75 | 1.09 | 1.36 | 3.58 | Yellow | PUC TDM-250 or TDM-500 | 5 | 5 | T-16 | B-16 | 62 |
| BBLU-025D-2TC38E3 | | | 3/8 | .81 | 1.09 | 1.83 | 4.05 | | | | | | | |
| BBLU-025D-2TC38 | | | 3/8 | 1 | 1.09 | 1.83 | 4.05 | | | | | | | |
| BBLU-025D | | | 1/2 | 1.75 | 1.09 | 3.00 | 5.22 | | | | | | | |
| BBLU-030D-2TC14E2 | 300 | .634 | 1/4 | .75 | 1.19 | 1.36 | 3.95 | White | PUC TDM-500 | 7 | 7 | T-17* | B-17 | 66H/66 |
| BBLU-030D-2TC38 | | | 3/8 | 1 | 1.19 | 1.83 | 4.42 | | | | | | | |
| BBLU-030D | | | 1/2 | 1.75 | 1.19 | 3.00 | 5.59 | | | | | | | |
| BBLU-035D-2TC14E2 | 350 | .682 | 1/4 | .75 | 1.28 | 1.36 | 4.02 | Red | PUC TDM-500 | 7 | 7 | T-18/324 | B-18 | 71H/71 |
| BBLU-035D-2TC38 | | | 3/8 | 1 | 1.28 | 1.83 | 4.49 | | | | | | | |
| BBLU-035D | | | 1/2 | 1.75 | 1.28 | 3.00 | 5.66 | | | | | | | |
| BBLU-040D-2TC14E2 | 400 | .728 | 1/4 | .75 | 1.39 | 1.36 | 4.15 | Blue | PUC TDM-500 | 7 | 7 | T-19*/470* | B-19 | 76H/76 |
| BBLU-040D-2TC38 | | | 3/8 | 1 | 1.39 | 1.83 | 4.62 | | | | | | | |
| BBLU-040D | | | 1/2 | 1.75 | 1.39 | 3.00 | 5.79 | | | | | | | |
| BBLU-050D-2TC14E2 | 500 | .815 | 1/4 | .75 | 1.53 | 1.36 | 4.39 | Brown | PUC TDM-500 | 9 | 9 | T-20/299 | B-20 | 87 |
| BBLU-050D-2TC38 | | | 3/8 | 1 | 1.53 | 1.83 | 4.86 | | | | | | | |
| BBLU-050D | | | 1/2 | 1.75 | 1.53 | 3.00 | 6.03 | | | | | | | |
| BBLU-060D-2TC38 | 600 | .893 | 3/8 | 1 | 1.72 | 1.83 | 5.39 | Green | PUC NONE | 9 | 9 | T-22/472 | B-22 | 94H/94 |
| BBLU-060D | | | 1/2 | 1.75 | 1.72 | 3.00 | 6.56 | | | | | | | |
| BBLU-065D-2TC38 | 650 | .930 | 3/8 | 1 | 1.78 | 1.83 | 5.51 | Pink | PUC NONE | 9 | 9 | - | B-300 | 99 |
| BBLU-065D | | | 1/2 | 1.75 | 1.78 | 3.00 | 6.68 | | | | | | | |
| BBLU-075D-2TC38 | 750 | .999 | 3/8 | 1 | 1.91 | 2.08 | 5.93 | Black | PUC NONE | 9 | 9 | T-24*/473 | B-24 | 106H/106 |
| BBLU-075D | | | 1/2 | 1.75 | 1.91 | 3.00 | 6.85 | | | | | | | |
| BBLU-080D | 800 | 1.031 | 1/2 | 1.75 | 1.97 | 3.00 | 7.00 | Orange | PUC NONE | - | - | - | B-25 | 107H/107 |
| BBLU-100D-2TC38 | 1000 | 1.153 | 3/8 | 1 | 2.17 | 2.08 | 6.24 | White | PUC NONE | 9*** | 9*** | - | B-27 | 125 |
| BBLU-100D1 | | | 1/2 | 1.75 | 2.17 | 3.00 | 7.16 | | | | | | | |
| BBLU-150D1 | 1500 | 1.412 | 1/2 | 1.75 | 2.69 | 3.00 | 7.44 | Green | PUC NONE | - | - | - | B-31 | - |
| BBLU-200D1 | 2000 | 1.632 | 1/2 | 1.75 | 3.08 | 3.00 | 7.78 | Brown | PUC NONE | - | - | - | B-34 | - |

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog

** (Also #2 Sol)
 *** CUAD-1000

* Consult factory for availability of dies not available at this time.

COPPER PENN-CRIMPS® TELECOMMUNICATION LUGS • TYPE BBLZ-2TC

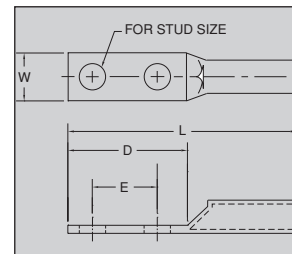
2 hole long barrel lugs with inspection windows for #8 stranded thru 2000 MCM

- ◆ Longer length barrel permits extra crimps for additional assurance on heavy duty loads.
- ◆ Seamless, one piece, copper construction with tin plating assures maximum conductivity.
- ◆ Generous entrance chamfer provides easy cable insertion.
- ◆ End of cable is visible through the inspection window to ensure proper cable insertion.
- ◆ Catalog number and conductor sizes marked on every piece insures positive identification.
- ◆ 45° and 90° variations are UL listed and CSA certified. Contact factory for price and availability.
- ◆ Can be installed with existing crimping tools.
- ◆ Die color coding conforms to industry requirements to insure proper connector/die selection and to provide for faster installation.
- ◆ Accepts the same wide range of additional wire sizes and types as our standard BLU, BBLU, BCU and BBCU series.
- ◆ UL/CSA approved with Versa-Crimp® tooling and wire ranges. Versa-Crimp® is a registered trademark of Hubbell Incorporated.
- ◆ BBLZ lugs are suitable for use at voltages up to 35KV.



| Connector Family | UL 486A/ CSA22.2 No. 65 Wire Range | UL 467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|----------------------------|------------------------------------|------------------------|---------------------|---------------|----------------------------|---------------------|---------------|
| | | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| BLU, BBLU, BBLZ, BCU, BBCU | 8 Str.-2000 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |

POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING & BONDING & DIRECT BURIAL : UL 467, CSA C22.2 NO. 41



| Catalog Number | Copper Cond. Range+ | Wire Dia. (in) ++ | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | | |
|-----------------|---------------------|-------------------|-----------|------------------------------------|-----|------|------|----------------|----------------------------|------------------|---|--------------|------------------|---------|
| | | | | E | W | D | L | | PENN-UNION | | | Alt. Tooling | | |
| | | | | | | | | | Dieless Mechanical | Pressure Setting | | PUC Dies | Burndy Index No. | T&B Die |
| BBLZ-8D-2TC14 | #8 | .146 | 1/4 | .63 | .41 | 1.22 | 2.44 | Red | PUC TDM-250 or TDM-500 | - | - | T-6 | B-6 | 21 |
| BBLZ-8D-2TC14E2 | | | 1/4 | .75 | .41 | 1.36 | 2.58 | | | | | | | |
| BBLZ-8D-2TC38E3 | | | 3/8 | .81 | .56 | 1.83 | 3.05 | | | | | | | |
| BBLZ-8D-2TC38 | | | 3/8 | 1 | .56 | 1.83 | 3.05 | | | | | | | |
| BBLZ-6D-2TC14 | #6 | .184 | 1/4 | .63 | .41 | 1.22 | 2.60 | Blue | PUC TDM-250 or TDM-500 | - | - | T-7*/374* | B-7 | 24 |
| BBLZ-6D-2TC14E2 | | | 1/4 | .75 | .41 | 1.36 | 2.74 | | | | | | | |
| BBLZ-6D-2TC38E2 | | | 3/8 | .75 | .61 | 1.58 | 2.96 | | | | | | | |
| BBLZ-6D-2TC38E3 | | | 3/8 | .81 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLZ-6D-2TC38 | | | 3/8 | 1 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLZ-6DN | | | 1/2 | 1.75 | .81 | 3.00 | 4.38 | | | | | | | |
| BBLZ-5D-2TC14 | #5 | .206 | 1/4 | .63 | .44 | 1.22 | 2.60 | Blue | PUC NONE | - | - | T-7*/374* | B-7 | 24 |
| BBLZ-5D-2TC14E2 | | | 1/4 | .75 | .44 | 1.36 | 2.74 | | | | | | | |
| BBLZ-5D-2TC38E2 | | | 3/8 | .75 | .61 | 1.58 | 2.96 | | | | | | | |
| BBLZ-5D-2TC38E3 | | | 3/8 | .81 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLZ-5D-2TC38 | | | 3/8 | 1 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLZ-4D-2TC14 | #4 | .232 | 1/4 | .63 | .50 | 1.22 | 2.60 | Gray | PUC TDM-250 or TDM-500 | 2 | - | T-8*/346* | B-8 | 29 |
| BBLZ-4D-2TC14E2 | | | 1/4 | .75 | .50 | 1.36 | 2.74 | | | | | | | |
| BBLZ-4D-2TC38E2 | | | 3/8 | .75 | .61 | 1.58 | 2.96 | | | | | | | |
| BBLZ-4D-2TC38E3 | | | 3/8 | .81 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLZ-4D-2TC38 | | | 3/8 | 1 | .61 | 1.83 | 3.21 | | | | | | | |
| BBLZ-4D1 | | | 1/2 | 1.75 | .94 | 3.00 | 4.38 | | | | | | | |
| BBLZ-3D-2TC14 | ** #3 | .260 | 1/4 | .63 | .65 | 1.22 | 2.60 | White | PUC NONE | 2 | - | T-9* | B-9 | - |
| BBLZ-3D-2TC14E2 | | | 1/4 | .75 | .65 | 1.36 | 2.74 | | | | | | | |
| BBLZ-3D-2TC38E2 | | | 3/8 | .75 | .65 | 1.58 | 2.96 | | | | | | | |
| BBLZ-3D-2TC38E3 | | | 3/8 | .81 | .65 | 1.83 | 3.21 | | | | | | | |
| BBLZ-3D-2TC38 | | | 3/8 | 1 | .65 | 1.83 | 3.21 | | | | | | | |
| BBLZ-2D-2TC14 | #2 | .292 | 1/4 | .63 | .59 | 1.22 | 2.75 | Brown | PUC TDM-250 or TDM-500 | 2 | - | T-10 | B-10 | 33 |
| BBLZ-2D-2TC14E2 | | | 1/4 | .75 | .59 | 1.36 | 2.89 | | | | | | | |
| BBLZ-2D-2TC38E2 | | | 3/8 | .75 | .59 | 1.58 | 3.11 | | | | | | | |
| BBLZ-2D-2TC38E3 | | | 3/8 | .81 | .59 | 1.83 | 3.36 | | | | | | | |
| BBLZ-2D-2TC38 | | | 3/8 | 1 | .59 | 1.83 | 3.36 | | | | | | | |
| BBLZ-2D-2NTC38 | | | 3/8 | 1.75 | .59 | 2.58 | 4.11 | | | | | | | |
| BBLZ-2D6 | | | 1/2 | 1.75 | .81 | 3.00 | 4.53 | | | | | | | |
| BBLZ-1D-2TC14 | | | #1 | .332 | 1/4 | .63 | .67 | | | | | | | |
| BBLZ-1D-2TC14E2 | 1/4 | .75 | | | .67 | 1.36 | 3.08 | | | | | | | |
| BBLZ-1D-2TC38E2 | 3/8 | .75 | | | .67 | 1.58 | 3.30 | | | | | | | |
| BBLZ-1D-2TC38E3 | 3/8 | .81 | | | .67 | 1.83 | 3.55 | | | | | | | |
| BBLZ-1D-2TC38 | 3/8 | 1 | | | .67 | 1.83 | 3.55 | | | | | | | |
| BBLZ-1D2 | 1/2 | 1.75 | | | .78 | 3.00 | 4.72 | | | | | | | |

NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS
NEW FEATURE!

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 *(Also #2 Sol)
 *** CUAD-1000
 * Consult factory for availability of dies not available at this time.

COPPER PENN-CRIMPS® TELECOMMUNICATION LUGS • TYPE BBLZ-2TC

Continued from page Recent Additions 17

**NEW FEATURE!
NOW LISTED FOR GROUNDING, BONDING & DIRECT BURIAL APPLICATIONS**

| Catalog Number | Copper Cond. Range+ | Dia. (in) ++ | Stud Size | Approximate Dimensions (in inches) | | | | Die Color Code | Crimping Tool Reference+++ | | | | | |
|-------------------|---------------------|--------------|-----------|---------------------------------------|-------|------|------|----------------|------------------------------|------------------|------|--------------|------------------|----------|
| | | | | E | W | D | L | | PENN-UNION | | | Alt. Tooling | | |
| | | | | | | | | | Dieless Mechanical | Pressure Setting | | PUC Dies | Burndy Index No. | T&B Die |
| | | | | TDY-1 | TDY-U | | | | | | | | | |
| BBLZ-1/0D-2TC14 | 1/0 | .375 | 1/4 | .63 | .74 | 1.22 | 2.94 | Pink | PUC TDM-250 or TDM-500 | 2 | - | T-12/348 | B-12 | 42 |
| BBLZ-1/0D-2TC14E2 | | | 1/4 | .75 | .74 | 1.36 | 3.08 | | | | | | | |
| BBLZ-1/0D-2TC38E2 | | | 3/8 | .75 | .74 | 1.58 | 3.30 | | | | | | | |
| BBLZ-1/0D-2TC38E3 | | | 3/8 | .81 | .74 | 1.83 | 3.55 | | | | | | | |
| BBLZ-1/0D-2TC38 | | | 3/8 | 1 | .74 | 1.83 | 3.55 | | | | | | | |
| BBLZ-1/0D-2NTC38 | | | 3/8 | 1.75 | .74 | 2.58 | 4.30 | | | | | | | |
| BBLZ-1/0D3 | | | 1/2 | 1.75 | .81 | 3.00 | 4.72 | | | | | | | |
| BBLZ-2/0D-2TC14 | 2/0 | .419 | 1/4 | .63 | .82 | 1.22 | 3.06 | Black | PUC TDM-250 or TDM-500 | 2 | - | T-13 | B-13 | 45 |
| BBLZ-2/0D-2TC14E2 | | | 1/4 | .75 | .82 | 1.36 | 3.20 | | | | | | | |
| BBLZ-2/0D-2TC38E2 | | | 3/8 | .75 | .82 | 1.58 | 3.42 | | | | | | | |
| BBLZ-2/0D-2TC38E3 | | | 3/8 | .81 | .82 | 1.83 | 3.67 | | | | | | | |
| BBLZ-2/0D-2TC38 | | | 3/8 | 1 | .82 | 1.83 | 3.67 | | | | | | | |
| BBLZ-2/0D | | | 1/2 | 1.75 | .82 | 3.00 | 4.84 | | | | | | | |
| BBLZ-3/0D-2TC14 | 3/0 | .470 | 1/4 | .63 | .89 | 1.22 | 3.13 | Orange | PUC TDM-250 or TDM-500 | 5 | 5 | T-14 | B-14 | 50 |
| BBLZ-3/0D-2TC14E2 | | | 1/4 | .75 | .89 | 1.36 | 3.27 | | | | | | | |
| BBLZ-3/0D-2TC38E2 | | | 3/8 | .75 | .89 | 1.58 | 3.49 | | | | | | | |
| BBLZ-3/0D-2TC38E3 | | | 3/8 | .81 | .89 | 1.83 | 3.74 | | | | | | | |
| BBLZ-3/0D-2TC38 | | | 3/8 | 1 | .89 | 1.83 | 3.74 | | | | | | | |
| BBLZ-3/0D | | | 1/2 | 1.75 | .89 | 3.00 | 4.91 | | | | | | | |
| BBLZ-4/0D-2TC14 | 4/0 | .528 | 1/4 | .63 | 1.00 | 1.22 | 3.32 | Purple | PUC TDM-250 or TDM-500 | 5 | 5 | T-15 | B-15 | 54 |
| BBLZ-4/0D-2TC14E2 | | | 1/4 | .75 | 1.00 | 1.36 | 3.46 | | | | | | | |
| BBLZ-4/0D-2TC16E2 | | | 7/16 | .75 | 1.00 | 1.83 | 3.93 | | | | | | | |
| BBLZ-4/0D-2TC38E2 | | | 3/8 | .75 | 1.00 | 1.58 | 3.68 | | | | | | | |
| BBLZ-4/0D-2TC38E3 | | | 3/8 | .81 | 1.00 | 1.83 | 3.93 | | | | | | | |
| BBLZ-4/0D-2TC38 | | | 3/8 | 1 | 1.00 | 1.83 | 3.93 | | | | | | | |
| BBLZ-4/0D-2NTC38 | | | 3/8 | 1.75 | 1.00 | 2.58 | 4.68 | | | | | | | |
| BBLZ-4/0D | | | 1/2 | 1.75 | 1.00 | 3.00 | 5.10 | | | | | | | |
| BBLZ-025D-2TC14E2 | | | 250 | .575 | 1/4 | .75 | 1.09 | | | | | | | |
| BBLZ-025D-2TC38E3 | 3/8 | .81 | | | 1.09 | 1.83 | 4.05 | | | | | | | |
| BBLZ-025D-2TC38 | 3/8 | 1 | | | 1.09 | 1.83 | 4.05 | | | | | | | |
| BBLZ-025D | 1/2 | 1.75 | | | 1.09 | 3.00 | 5.22 | | | | | | | |
| BBLZ-030D-2TC14E2 | 300 | .634 | 1/4 | .75 | 1.19 | 1.36 | 3.95 | White | PUC TDM-500 | 7 | 7 | T-17* | B-17 | 66H/66 |
| BBLZ-030D-2TC38 | | | 3/8 | 1 | 1.19 | 1.83 | 4.42 | | | | | | | |
| BBLZ-030D | | | 1/2 | 1.75 | 1.19 | 3.00 | 5.59 | | | | | | | |
| BBLZ-035D-2TC14E2 | 350 | .682 | 1/4 | .75 | 1.28 | 1.36 | 4.02 | Red | PUC TDM-500 | 7 | 7 | T-18/324 | B-18 | 71H/71 |
| BBLZ-035D-2TC38 | | | 3/8 | 1 | 1.28 | 1.83 | 4.49 | | | | | | | |
| BBLZ-035D | | | 1/2 | 1.75 | 1.28 | 3.00 | 5.66 | | | | | | | |
| BBLZ-040D-2TC14E2 | 400 | .728 | 1/4 | .75 | 1.39 | 1.36 | 4.15 | Blue | PUC TDM-500 | 7 | 7 | T-19*/470* | B-19 | 76H/76 |
| BBLZ-040D-2TC38 | | | 3/8 | 1 | 1.39 | 1.83 | 4.62 | | | | | | | |
| BBLZ-040D | | | 1/2 | 1.75 | 1.39 | 3.00 | 5.79 | | | | | | | |
| BBLZ-050D-2TC14E2 | 500 | .815 | 1/4 | .75 | 1.53 | 1.36 | 4.39 | Brown | PUC TDM-500 | 9 | 9 | T-20/299 | B-20 | 87 |
| BBLZ-050D-2TC38 | | | 3/8 | 1 | 1.53 | 1.83 | 4.86 | | | | | | | |
| BBLZ-050D | | | 1/2 | 1.75 | 1.53 | 3.00 | 6.03 | | | | | | | |
| BBLZ-060D-2TC38 | 600 | .893 | 3/8 | 1 | 1.72 | 1.83 | 5.39 | Green | PUC NONE | 9 | 9 | T-22/472 | B-22 | 94H/94 |
| BBLZ-060D | | | 1/2 | 1.75 | 1.72 | 3.00 | 6.56 | | | | | | | |
| BBLZ-065D-2TC38 | 650 | .930 | 3/8 | 1 | 1.78 | 1.83 | 5.51 | Pink | PUC NONE | 9 | 9 | - | B-300 | 99 |
| BBLZ-065D | | | 1/2 | 1.75 | 1.78 | 3.00 | 6.68 | | | | | | | |
| BBLZ-075D-2TC38 | 750 | .999 | 3/8 | 1 | 1.91 | 2.08 | 5.93 | Black | PUC NONE | 9 | 9 | T-24*/473 | B-24 | 106H/106 |
| BBLZ-075D | | | 1/2 | 1.75 | 1.91 | 3.00 | 6.85 | | | | | | | |
| BBLZ-080D | 800 | 1.031 | 1/2 | 1.75 | 1.97 | 3.00 | 7.00 | Orange | PUC NONE | - | - | - | B-25 | 107H/107 |
| BBLZ-100D-2TC38 | 1000 | 1.153 | 3/8 | 1 | 2.17 | 2.08 | 6.24 | White | PUC NONE | 9*** | 9*** | - | B-27 | 125 |
| BBLZ-100D1 | | | 1/2 | 1.75 | 2.17 | 3.00 | 7.16 | | | | | | | |
| BBLZ-150D1 | 1500 | 1.412 | 1/2 | 1.75 | 2.69 | 3.00 | 7.44 | Green | PUC NONE | - | - | - | B-31 | - |
| BBLZ-200D1 | 2000 | 1.632 | 1/2 | 1.75 | 3.08 | 3.00 | 7.78 | Brown | PUC NONE | - | - | - | B-34 | - |

+ Concentric, compressed and compact stranding.
 ++ For conversion to metric range see Master Catalog
 +++ For additional tool references see Master Catalog

** (Also #2 Sol)
 *** CUAD-1000

* Consult factory for availability of dies not available at this time.

OXIDE INHIBITOR COMPOUNDS • CUAL-AID® #11C, #12C AND CUAL-GEL®

CUAL-GEL®

Newest formulation designed for user & protective benefits. A high quality general use non-melting, non-petroleum base compound specifically designed to prevent oxidation and corrosion of aluminum, copper, tin and steel. The compound works over a wide temperature range, sealing out moisture and air, while having little or no effect on rubber and most other insulating materials. Easiest cleanup with soap and water.

CUAL-AID® #11C

A high quality general use compound consists of a non-melting, non-petroleum base material with suspended zinc particles. Compatible with insulating materials such as rubber or polyethylene. Recommended for aluminum to aluminum, aluminum to copper, conduit threads and bolted applications.

CUAL-AID® #12C

A high quality compression use compound consisting of a non-melting, non-petroleum base material with suspended zinc particles and abrasive grit. Not for use on threads or bolted applications. Compatible with rubber, polyethylene and other insulating materials. Recommended for aluminum to aluminum and aluminum to copper in all compression applications.



PROPERTIES OF CUAL-AID® & CUAL-GEL®

| PROPERTY | VALUE DEFINITION | CUAL-AID® #11C (w/zinc particles) | CUAL-AID® #12C (w/zinc & grit) | CUAL-GEL® |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------|---------------------|
| PENETRATION (UNWORKED) | The value in accordance to ASTM D217 indicates the consistency of a compound. The higher the number, the softer the compound. | 230-270 | 240-280 | 220-260 |
| DROPPING POINT (MIN.) | The temperature at which the compound passes from the semi-solid to a liquid state under test conditions. | 500°F (non-melting) | 500°F (non-melting) | 500°F (non-melting) |
| POUR POINT (MAX.) | The lowest temperature at which the compound will flow. Pour point is the lubricant's ability to perform in cold conditions. | -10°F | -10°F | -10°F |
| SERVICE TEMP. RANGE | After installation, the temperature at which compound is expected to perform and protect. | -50°C to 150°C | -50°C to 150°C | -50°C to 150°C |

ORDERING INFORMATION

| CATALOG NUMBERS AND CONTAINERS | | | | |
|--------------------------------|---------------|---------------|-----------------|-----------|
| CUAL-GEL® | CUAL-AID®#11C | CUAL-AID®#12C | *CONTAINER | SIZE |
| | 4OZNO11C | | Squeeze Tube | 4 oz. |
| CUALGEL4OZ | | | Squeeze Bottles | 4 oz. |
| CUALGEL8OZ | | | Squeeze Bottles | 8 oz. |
| **PTCUALGEL | PTNO11C | PTNO12C | Pint Can | pint |
| **QTCUALGEL | QTNO11C | QTNO12C | Quart Can | quart |
| **GALCUALGEL | GALNO11C | GALNO12C | Gallon Can | gallon |
| **5GALCUALGEL | 5GALNO11C | 5GALNO12C | 5 Gallon Can | 5 gallon |
| **55GALCUALGEL | 55GALNO11C | 55GALNO12C | 55 Gallon Drum | 55 gallon |

* Squeeze tubes and bottles sold 12 per carton only. **Consult factory for price and availability

OXIDE INHIBITOR COMPOUNDS • CUAL-AID® #11C, #12C AND CUAL-GEL®

FEATURES:

- ◆ Non-melting, non-petroleum based compounds.
- ◆ Will not wash off from exposure to the elements.
- ◆ Provides air-tight seal.
- ◆ Easy clean up. #11C, #12C with detergent. Cual-Gel with soap and water.
- ◆ Available in various packaging
- ◆ CUAL-GEL®

BENEFITS:

- ◆ Little or no effect on rubber and most other insulating materials.
- ◆ Remains in place as expected to perform and protect.
- ◆ Prevents oxidation for increased connection service.
- ◆ No special or extra costly cleaners.
- ◆ Convenience of right size package per job.
- ◆ Specifically designed to prevent oxidation and corrosion of aluminum, copper, tin and steel. Multiple uses with conductors, connectors, conduits and connections.

EASY TO APPLY:

- Connectors:** DO NOT wire-brush the grooves or contact surfaces of plated or grease-coated connectors. For unplated, ungreased connectors, wire brush contact surfaces until bright and clean. Immediately apply compound to the conductive surfaces. Install conductor and finish installation.
- Cable:** Apply compound and wire-brush into strands of aluminum cable. This removes oxide coating from the strands, and prevents it from reforming. Install conductor and finish installation.
- Bar:** Wire-brush compound across the surface of the bar to remove oxide coating and finish installation. DO NOT wire-brush plated surfaces, simply apply compound and finish installation.



COPPER ALLOY SPLIT BOLT CONNECTORS • TYPES S AND SEL

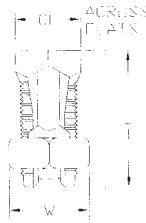
For copper and copperweld wires

THE MOST VERSATILE SPLIT BOLT ON THE MARKET MANUFACTURED IN THE USA

Made from high strength copper alloy. Highly resistant to corrosion and season cracking. Under torque this design provides high contact pressure between conductors.

TYPE "SEL":

The first 3-conductor split bolt approved for grounding!



486A

467



600V
CU
90°C

LISTED
GROUNDING POWER &
BONDING GROUNDING

NEW

FEATURE-NOW APPROVED FOR
GROUNDING/BONDING AND
ELECTRICAL

2 CONDUCTORS

| CATALOG NO. | RANGE EQ RUN & TAP | MIN TAP WITH ONE MAX. MAIN | MAX COND COPPERWELD | | WIRE DIAMETER range † | L | W | ACROSS FLATS | TORQUE IN/LBS. |
|-------------|--------------------|----------------------------|---------------------|--------|-----------------------|------|------|--------------|----------------|
| | | | STR. | TYPE A | | | | | |
| S-8* | 16str-8str | 16str | - | - | .057-.145 | .84 | .50 | .38 | 80 |
| S-6* | 10sol-6sol | 16sol | - | - | .102-.162 | 1.05 | .63 | .50 | 165 |
| S-4* | 8sol-4sol | 16sol | 3 No. 12 | 8A | .128-.204 | 1.05 | .69 | .56 | 165 |
| S-3* | 6sol-2sol | 12sol | 3 No. 9 | 5A | .162-.258 | 1.31 | .81 | .69 | 275 |
| S-2* | 6sol-2str | 14str | 3 No. 7 | 3A | .162-.292 | 1.31 | .81 | .69 | 275 |
| S-1/0* | 4sol-1/0str | 14sol | 3 No. 6 | 2A | .204-.375 | 1.64 | .88 | .75 | 385 |
| S-2/0 | 2sol-2/0str | 14str | 3 No. 5 | - | .258-.418 | 1.81 | 1 | .81 | 385 |
| S-3/0 | 2sol-3/0str | 12sol | 7 No. 7 | - | .258-.470 | 2 | 1.13 | .88 | 500 |
| S-4/0-250 | 1/0sol-250 | 10sol | 7 No. 5 | - | .325-.575 | 2.08 | 1.31 | 1 | 650 |
| S-350+ | 4/0str-350 | 8sol | 19 No. 7 | - | .528-.682 | 2.63 | 1.63 | 1.50 | 650 |
| S-500+ | 250-500 | 8sol | 19 No. 6 | - | .575-.815 | 3 | 1.81 | 1.63 | 825 |
| S-750++ | 350-750 | 8sol | 19 No. 5 | - | .682-.999 | 3.75 | 2.13 | 1.94 | 1000 |
| S-1000++ | 500-1000 | 8sol | - | - | .815-1.153 | 4 | .250 | 2.25 | 1100 |

+ UL Only Grounding and Bonding
++ Not approved for grounding & bonding (no standard)
* RUS accepted

2-3 CONDUCTORS

| CATALOG NO. | RANGE EQ RUN & TAP | MIN TAP WITH ONE MAX. MAIN | MAX COND COPPERWELD | | WIRE DIAMETER range † | L | W | ACROSS FLATS | TORQUE IN/LBS. |
|-------------|--------------------|----------------------------|---------------------|--------|-----------------------|------|-----|--------------|----------------|
| | | | STR. | TYPE A | | | | | |
| SEL-8* | 16str-8str | 16str | - | - | .057-.145 | .84 | .50 | .38 | 80 |
| SEL-6* | 10sol-6sol | 16sol | - | - | .102-.162 | 1.05 | .69 | .56 | 165 |
| SEL-4* | 8sol-4sol | 16sol | 3 No. 12 | 8A | .128-.204 | 1.27 | .69 | .56 | 165 |
| SEL-2* | 6sol-2str | 14str | 3 No. 7 | 3A | .162-.292 | 1.55 | .81 | .69 | 275 |

† For conversion to metric range, see page 171
RUS accepted.

| Connector Family | POWER | UL-467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|------------------|---------------------------|------------------------|---------------------|-----------------------|----------------------------|---------------------|---------------|
| | CSA22.2 NO. 65 Wire Range | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial w/Rebar | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| S SEL | 16 Str.-1000 MCM | 500 MCM | Yes | No | 250 MCM | Yes | No |
| *S-DB SEL-DB | 16 Str. 500 MCM | 500 MCM | Yes | Yes | 250 MCM | Yes | Yes |

*Direct Burial-see What's New Section front of catalog
POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING AND BONDING: UL 487, CSA C22.2 NO. 41

Features and Benefits

◆ Application/Use.

- Type S is for use with 2-conductors for electrical power applications, and grounding & bonding applications, except direct burial.
- Type SEL is for use with 2 or 3-conductors for electrical power applications, and grounding & bonding applications, except direct burial.

◆ Versatile • Multi-uses:

- Electrical
- Splicing and taping
- Grounding and Bonding
- Above ground splicing, taping and bonding.

◆ Unique Design

- SEL-first 3-conductor split bolt approved for grounding & bonding with full CSA certification.
- Re-usable with proper installation practice.
- Free running threads.
- Pressure bar design features give assurance of high "pull-out" and a secure connection on all combinations of conductors.
- True hex design for position grip and assured torquing.
- Wide wire range per size.
- 600V-90° C temperature.

◆ Conductors.

- Wide range of solid, compact, compressed, concentric and copperweld.

◆ Installation

- Torque wrench plus socket, box or open-end wrenches.
- True hex design sizing.

NEW

COPPER ALLOY SPLIT BOLT CONNECTORS . TYPES S - DB AND SEL - DB

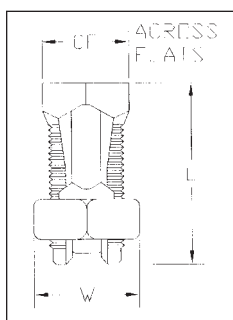
For copper and copperweld wires and rebar

THE MOST VERSATILE SPLIT BOLT ON THE MARKET MANUFACTURED IN THE USA

Made from high strength copper alloy. Highly resistant to corrosion and season cracking. Under torque this design provides high contact pressure between conductors, or conductor to rebar.

TYPE "SEL-DB":

The first 3-conductor split bolt approved for grounding!



CU
90°C



467
LISTED



467
LISTED
SUITABLE FOR
DIRECT BURIAL



Power &
Grounding

| Connector Family | POWER | UL-467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|------------------|-----------------------------------|------------------------|---------------------|-----------------------|----------------------------|---------------------|---------------|
| | UL486A/ CSA22.2 No. 65 Wire Range | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial w/Rebar | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| S-DB SEL-DB | 16 Str.-500 MCM | 500 MCM | YES | YES | 250 MCM | YES | YES |
| * S SEL | 16 Str.-1000 MCM | 500 MCM | YES | NO | 250 MCM | YES | NO |

* See Master Catalog

POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING & BONDING & DIRECT BURIAL: UL 467, CSA C22.2 NO. 41

| CATALOG NO. | EQ RUN & TAP | MIN TAP WITH ONE MAX. MAIN | +REBAR w/6or8AWG | L | W | ACROSS FLATS | TORQUE IN/LBS |
|--------------|--------------|----------------------------|------------------|------|------|--------------|---------------|
| S-8-DB | 16str.-8str | 16str | N/A | .84 | .50 | .38 | 80 |
| S-6-DB | 10sol-6sol | 16sol | N/A | 1.05 | .63 | .50 | 165 |
| S-4-DB | 8sol-4sol | 16sol | N/A | 1.05 | .69 | .56 | 165 |
| S-3-DB | 6sol-2sol | 12sol | N/A | 1.31 | .81 | .69 | 275 |
| S-2-DB | 6sol-2str | 14str | N/A | 1.31 | .81 | .69 | 275 |
| S-1/0-DB | 4sol-1/0str | 14sol | N/A | 1.64 | .88 | .75 | 385 |
| S-2/0-DB | 2sol-2/0str | 14str | #3 (3/8) | 1.81 | 1 | .81 | 385 |
| S-3/0-DB | 2sol-3/0str. | 12 sol | N/A | 2 | 1.13 | .88 | 500 |
| S-4/0-250-DB | 1/0sol-250 | 10sol | #4 (1/2) | 2.08 | 1.31 | 1 | 650 |
| S-350-DB + | 4/0str-350 | 8sol | #5 (5/8) | 2.63 | 1.63 | 1.50 | 650 |
| S-500-DB + | 250-500 | 8sol | #6 (3/4) | 3 | 1.81 | 1.63 | 825 |

+ UL Only

| CATALOG NO. | EQ RUN & TAP | MIN TAP WITH ONE MAX. MAIN | L | W | ACROSS FLATS | TORQUE IN/LBS |
|-------------|--------------|----------------------------|------|-----|--------------|---------------|
| SEL-8-DB | 16str-8str | 16str | .84 | .50 | .38 | 80 |
| SEL-6-DB | 10sol-6sol | 16sol | 1.11 | .63 | .50 | 165 |
| SEL-4-DB | 8sol-4sol | 16sol | 1.27 | .69 | .56 | 165 |
| SEL-2-DB | 6sol-2str | 14str | 1.55 | .81 | .69 | 275 |

22 RECENT ADDITIONS

FEATURES AND BENEFITS

- ◆ Application/Use.
 - Type S-DB is for use with 2-conductors or 1-conductor to rebar.
 - Type SEL-DB, for use with 2 or 3-conductors for grounding.
 - DB permanently marked on head for easier identification by inspectors.
- ◆ Versatile – Multi-uses.
 - Electrical.
 - Splicing and taping.
 - Grounding and Bonding.
 - Above ground splicing, taping and bonding.
 - Grounding and Bonding-Direct Burial.
 - Below ground splicing, taping and bonding.
 - Embedment in earth or concrete, including rebar.
- ◆ Unique Design.
 - Reusable with proper installation practice.
 - Free running threads.
 - True hex design for positive grip and assured torquing.
 - Wide wire range per size.
 - 600V - 90°C temperature.
- ◆ Conductors.
 - Solid, compact, compressed, concentric.
 - Rebar #3, 4, 5, 6.
- ◆ Installation.
 - Torque wrench plus socket, box or open end wrenches.

ALUMINUM CLEAR PRE-INSULATED POWER BAR • TYPE IPB

For any combination of copper and aluminum wire.



486B LISTED
AL9CU

Pre-insulated aluminum connectors for splice, reducer and tap applications. Dual rated for both aluminum and copper conductors, simultaneous accommodations at 600V and 90°C. For use in areas such as troughs, gutters, panels, ducts and wireways. Only one conductor per set screw, and only one supply



SINGLE SIDED ENTRY TYPE

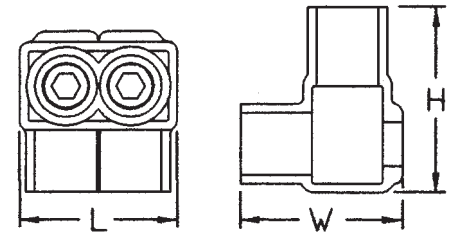


DUAL SIDED ENTRY TYPE



ALTERNATE ENTRY TYPE

| Catalog Number | Number of Conductors | Conductor Range | Approximate Dimensions Inches | | | |
|----------------|----------------------|------------------|-------------------------------|------|------|---------|
| | | | L | W | H | Hex Key |
| IPB-NA4-2S | 2 | 4 Str - 14 Sol | 1.03 | 1.19 | 1.19 | 1/8 |
| IPB-NA4-3S | 3 | 4 Str - 14 Sol | 1.39 | 1.19 | 1.19 | |
| IPB-NA4-4S | 4 | 4 Str - 14 Sol | 1.90 | 1.19 | 1.19 | |
| IPB-NA4-5S | 5 | 4 Str - 14 Sol | 2.26 | 1.19 | 1.19 | |
| IPB-NA4-6S | 6 | 4 Str - 14 Sol | 2.70 | 1.19 | 1.19 | |
| IPB-NA4-8S | 8 | 4 Str. 14 Sol | 3.58 | 1.19 | 1.19 | |
| IPB-NA2/0-2S | 2 | 2/0 - 14 Sol | 1.39 | 1.25 | 1.31 | 3/16 |
| IPB-NA2/0-3S | 3 | 2/0 - 14 Sol | 2.06 | 1.25 | 1.31 | |
| IPB-NA2/0-4S | 4 | 2/0 - 14 Sol | 2.73 | 1.25 | 1.31 | |
| IPB-NA2/0-5S | 5 | 2/0 - 14 Sol | 3.40 | 1.25 | 1.31 | |
| IPB-NA2/0-6S | 6 | 2/0 - 14 Sol | 4.07 | 1.25 | 1.31 | |
| IPB-NA2/0-8S | 8 | 2/0 - 14 Sol | 5.42 | 1.25 | 1.31 | |
| IPB-NA2/0-10S | 10 | 2/0 - 14 Sol | 6.77 | 1.25 | 1.31 | |
| IPB-NA2/0-12S | 12 | 2/0 - 14 Sol | 8.11 | 1.25 | 1.31 | |
| IPB-NA2/0-14S | 14 | 2/0 - 14 Sol | 9.46 | 1.25 | 1.31 | |
| IPB-NA250-2S | 2 | 250 MCM - 10 Sol | 1.90 | 2.00 | 2.07 | |
| IPB-NA250-3S | 3 | 250 MCM - 10 Sol | 2.84 | 2.00 | 2.07 | |
| IPB-NA250-4S | 4 | 250 MCM - 10 Sol | 3.78 | 2.00 | 2.07 | |
| IPB-NA250-5S | 5 | 250 MCM - 10 Sol | 4.71 | 2.00 | 2.07 | |
| IPB-NA250-6S | 6 | 250 MCM - 10 Sol | 5.65 | 2.00 | 2.07 | |
| IPB-NA250-8S | 8 | 250 MCM - 10 Sol | 7.53 | 2.00 | 2.07 | |
| IPB-NA250-10S | 10 | 250 MCM - 10 Sol | 9.41 | 2.00 | 2.07 | |
| IPB-NA250-12S | 12 | 250 MCM - 10 Sol | 11.29 | 2.00 | 2.07 | |
| IPB-NA250-14S | 14 | 250 MCM - 10 Sol | 13.16 | 2.00 | 2.07 | |
| IPB-NA350-2S | 2 | 350 MCM - 10 Sol | 2.09 | 2.47 | 2.44 | 5/16 |
| IPB-NA350-3S | 3 | 350 MCM - 10 Sol | 3.00 | 2.47 | 2.44 | |
| IPB-NA350-4S | 4 | 350 MCM - 10 Sol | 3.91 | 2.47 | 2.44 | |
| IPB-NA350-5S | 5 | 350 MCM - 10 Sol | 4.82 | 2.47 | 2.44 | |
| IPB-NA350-6S | 6 | 350 MCM - 10 Sol | 5.73 | 2.47 | 2.44 | |
| IPB-NA350-8S | 8 | 350 MCM - 10 Sol | 7.55 | 2.47 | 2.44 | |
| IPB-NA350-10S | 10 | 350 MCM - 10 Sol | 10.06 | 2.47 | 2.44 | |
| IPB-NA350-12S | 12 | 350 MCM - 10 Sol | 12.06 | 2.47 | 2.44 | |
| IPB-NA350-14S | 14 | 350 MCM - 10 sol | 13.06 | 2.47 | 2.44 | |
| IPB-NA600-2S | 2 | 600 MCM - 4 Str | 2.59 | 2.72 | 2.69 | |
| IPB-NA600-3S | 3 | 600 MCM - 4 Str | 3.87 | 2.72 | 2.69 | |
| IPB-NA600-4S | 4 | 600 MCM - 4 Str | 5.15 | 2.72 | 2.69 | |
| IPB-NA600-5S | 5 | 600 MCM - 4 Str | 6.43 | 2.72 | 2.69 | |
| IPB-NA600-6S | 6 | 600 MCM - 4 Str | 7.71 | 2.72 | 2.69 | |
| IPB-NA600-8S | 8 | 600 MCM - 4 Str | 10.28 | 2.72 | 2.69 | |
| IPB-NA600-10S | 10 | 600 MCM - 4 Str | 12.84 | 2.72 | 2.69 | |
| IPB-NA600-12S | 12 | 600 MCM - 4 Str | 15.40 | 2.72 | 2.69 | |
| IPB-NA600-14S | 14 | 600 MCM - 4 Str | 18.00 | 2.72 | 2.69 | |



SINGLE SIDED ENTRY

FEATURES AND BENEFITS

- ◆ Pre-insulated at factory.
 - Clear PVC allows visual inspection of conductor properly inserted at installation and final inspection approval.
 - Eliminates the need for time consuming taping.
- ◆ Pre-Filled with oxide inhibitor and plugged ports.
 - Prevents oxidation, moisture and contaminants from contact surfaces.
 - Reduces installation time.
- ◆ Wide conductor range.
 - Available in two through fourteen conductor configurations in five conductor sizes.
 - Reduced inventory.
- ◆ Compact, versatile design.
 - Dual rated (AL9CU) for copper and aluminum applications.
 - Use as a splice, tap or splice reducer.
 - Low total cost of installation.

ALUMINUM CLEAR PRE-INSULATED POWER BAR • TYPE IPB

For any combination of copper and aluminum wire.

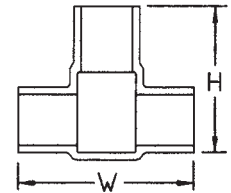
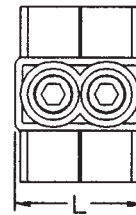


486B LISTED
AL9CU

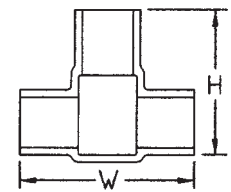
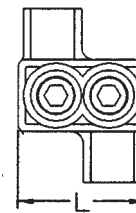
Pre-insulated aluminum connectors for splice, reducer and tap applications. Dual rated for both aluminum and copper conductors at 600V and 90°C. For use in areas such as troughs, gutters, panels, ducts and wireways. Only one conductor per set screw, and only one supply conductor per connector permitted.

DUAL ENTRY

| Catalog Number | Number of Conductors | Conductor Range | Approximate Dimensions Inches | | | | |
|----------------|----------------------|------------------|-------------------------------|------|------|---------|------|
| | | | L | W | H | Hex Key | |
| IPB-NA4-2D | 2 | 4 Str - 14 Sol | 1.03 | 1.53 | 1.19 | 1/8 | |
| IPB-NA4-3D | 3 | 4 Str - 14 Sol | 1.39 | 1.53 | 1.19 | | |
| IPB-NA4-4D | 4 | 4 Str - 14 Sol | 1.90 | 1.53 | 1.19 | | |
| IPB-NA4-5D | 5 | 4 Str - 14 Sol | 2.26 | 1.53 | 1.19 | | |
| IPB-NA4-6D | 6 | 4 Str - 14 Sol | 2.70 | 1.53 | 1.19 | | |
| IPB-NA4-8D | 8 | 4 Str. 14 Sol | 3.58 | 1.53 | 1.19 | | |
| IPB-NA4-10D | 10 | 4 Str. 14 Sol | 4.46 | 1.53 | 1.19 | | |
| IPB-NA4-12D | 12 | 4 Str. 14 Sol | 5.34 | 1.53 | 1.19 | | |
| IPB-NA4-14D | 14 | 4 Str. 14 Sol | 6.21 | 1.53 | 1.19 | | |
| IPB-NA2/0-2D | 2 | 2/0 - 14 Sol | 1.39 | 1.56 | 1.31 | | 3/16 |
| IPB-NA2/0-3D | 3 | 2/0 - 14 Sol | 2.06 | 1.56 | 1.31 | | |
| IPB-NA2/0-4D | 4 | 2/0 - 14 Sol | 2.73 | 1.56 | 1.31 | | |
| IPB-NA2/0-5D | 5 | 2/0 - 14 Sol | 3.40 | 1.56 | 1.31 | | |
| IPB-NA2/0-6D | 6 | 2/0 - 14 Sol | 4.07 | 1.56 | 1.31 | | |
| IPB-NA2/0-8D | 8 | 2/0 - 14 Sol | 5.42 | 1.56 | 1.31 | | |
| IPB-NA2/0-10D | 10 | 2/0 - 14 Sol | 6.77 | 1.56 | 1.31 | | |
| IPB-NA2/0-12D | 12 | 2/0 - 14 Sol | 8.11 | 1.56 | 1.31 | | |
| IPB-NA2/0-14D | 14 | 2/0 - 14 Sol | 9.46 | 1.56 | 1.31 | | |
| IPB-NA250-2D | 2 | 250 MCM - 10 Sol | 1.90 | 2.63 | 2.07 | 5/16 | |
| IPB-NA250-3D | 3 | 250 MCM - 10 Sol | 2.84 | 2.63 | 2.07 | | |
| IPB-NA250-4D | 4 | 250 MCM - 10 Sol | 3.78 | 2.63 | 2.07 | | |
| IPB-NA250-5D | 5 | 250 MCM - 10 Sol | 4.71 | 2.63 | 2.07 | | |
| IPB-NA250-6D | 6 | 250 MCM - 10 Sol | 5.65 | 2.63 | 2.07 | | |
| IPB-NA250-8D | 8 | 250 MCM - 10 Sol | 7.53 | 2.63 | 2.07 | | |
| IPB-NA250-10D | 10 | 250 MCM - 10 Sol | 9.41 | 2.63 | 2.07 | | |
| IPB-NA250-12D | 12 | 250 MCM - 10 Sol | 11.29 | 2.63 | 2.07 | | |
| IPB-NA250-14D | 14 | 250 MCM - 10 Sol | 13.16 | 2.63 | 2.07 | | |
| IPB-NA350-2D | 2 | 350 MCM - 10 Sol | 2.09 | 3.00 | 2.44 | | 5/16 |
| IPB-NA350-3D | 3 | 350 MCM - 10 Sol | 3.00 | 3.00 | 2.44 | | |
| IPB-NA350-4D | 4 | 350 MCM - 10 Sol | 3.91 | 3.00 | 2.44 | | |
| IPB-NA350-5D | 5 | 350 MCM - 10 Sol | 4.82 | 3.00 | 2.44 | | |
| IPB-NA350-6D | 6 | 350 MCM - 10 Sol | 5.73 | 3.00 | 2.44 | | |
| IPB-NA350-8D | 8 | 350 MCM - 10 Sol | 7.55 | 3.00 | 2.44 | | |
| IPB-NA350-10D | 10 | 350 MCM - 10 Sol | 10.06 | 3.00 | 2.44 | | |
| IPB-NA350-12D | 12 | 350 MCM - 10 Sol | 12.06 | 3.00 | 2.44 | | |
| IPB-NA350-14D | 14 | 350 MCM - 10 sol | 13.06 | 3.00 | 2.44 | | |
| IPB-NA600-2D | 2 | 600 MCM - 4 Str | 2.59 | 3.00 | 2.69 | 3/8 | |
| IPB-NA600-3D | 3 | 600 MCM - 4 Str | 3.87 | 3.00 | 2.69 | | |
| IPB-NA600-4D | 4 | 600 MCM - 4 Str | 5.15 | 3.00 | 2.69 | | |
| IPB-NA600-5D | 5 | 600 MCM - 4 Str | 6.43 | 3.00 | 2.69 | | |
| IPB-NA600-6D | 6 | 600 MCM - 4 Str | 7.71 | 3.00 | 2.69 | | |
| IPB-NA600-8D | 8 | 600 MCM - 4 Str | 10.28 | 3.00 | 2.69 | | |
| IPB-NA600-10D | 10 | 600 MCM - 4 Str | 12.84 | 3.00 | 2.69 | | |
| IPB-NA600-12D | 12 | 600 MCM - 4 Str | 15.40 | 3.00 | 2.69 | | |
| IPB-NA600-14D | 14 | 600 MCM - 4 Str | 18.00 | 3.00 | 2.69 | | |



DUAL SIDED ENTRY



ALTERNATE SIDED ENTRY

FEATURES AND BENEFITS

- ◆ Pre-insulated at factory.
 - Clear PVC allows visual inspection of conductor properly inserted at installation and final inspection approval.
 - Eliminates the need for time consuming taping.
- ◆ Pre-Filled with oxide inhibitor and plugged ports.
 - Prevents oxidation, moisture and contaminants from contact surfaces.
 - Reduces installation time.
- ◆ Wide conductor range.
 - Available in two through fourteen conductor configurations in five conductor sizes.
 - Reduced inventory.
- ◆ Compact, versatile design.
 - Dual rated (AL9CU) for copper and aluminum applications.
 - Use as a splice, tap or splice reducer.
 - Low total cost of installation.

ALTERNATE ENTRY

| Catalog Number | Number of Conductors | Conductor Range | Approximate Dimensions Inches | | | |
|----------------|----------------------|------------------|-------------------------------|------|------|---------|
| | | | L | W | H | Hex Key |
| IPB-NA4-2A | 2 | 4 Str - 14 Sol | 1.03 | 1.53 | 1.19 | 1/8 |
| IPB-NA2/0-2A | 2 | 2/0 Str - 14 Sol | 1.39 | 1.56 | 1.31 | 3/16 |
| IPB-N250-2A | 2 | 250 MCM - 10 Sol | 1.90 | 2.63 | 2.07 | 5/16 |
| IPB-NA350-2A | 2 | 350 MCM - 10 Sol | 2.09 | 3.00 | 2.44 | 5/16 |
| IPB-NA600-2A | 2 | 600 MCM - 4 Str | 2.59 | 3.00 | 2.69 | 3/8 |

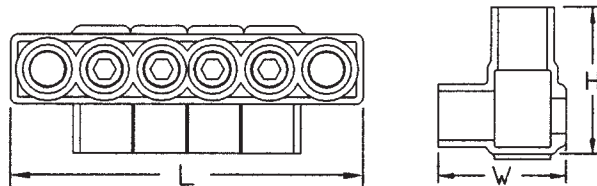
ALUMINUM CLEAR PRE-INSULATED POWER BAR • TYPE IPBM

For any combination of copper and aluminum wire.

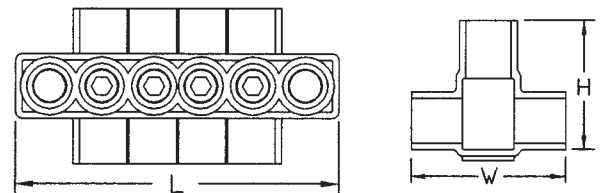


486B LISTED
AL9CU

Pre-insulated mount version has the same features as the existing IPB pre-insulated connectors with the additional ability to be mounted. Each IPBM connector has two isolated mounting holes, one at each end of the connector.



SINGLE SIDED ENTRY MOUNTING TYPE



DUAL SIDED ENTRY MOUNTING TYPE

SINGLE ENTRY MOUNTING

| Catalog Number | Number of Conductors | Conductor Range | Approximate Dimensions Inches | | | |
|----------------|----------------------|------------------|-------------------------------|------|------|---------|
| | | | L | W | H | Hex Key |
| IPBM-NA2/0-4S | 4 | 2/0 - 14 Sol | 2.73 | 1.25 | 1.31 | 3/16 |
| IPBM-NA2/0-6S | 6 | 2/0 - 14 Sol | 4.07 | 1.25 | 1.31 | |
| IPBM-NA2/0-8S | 8 | 2/0 - 14 Sol | 5.42 | 1.25 | 1.31 | |
| IPBM-NA2/0-10S | 10 | 2/0 - 14 Sol | 6.77 | 1.25 | 1.31 | |
| IPBM-NA2/0-12S | 12 | 2/0 - 14 Sol | 8.11 | 1.25 | 1.31 | |
| IPBM-NA250-4S | 4 | 250 MCM - 10 Sol | 3.78 | 2.00 | 2.07 | 5/16 |
| IPBM-NA250-6S | 6 | 250 MCM - 10 Sol | 5.65 | 2.00 | 2.07 | |
| IPBM-NA250-8S | 8 | 250 MCM - 10 Sol | 7.53 | 2.00 | 2.07 | |
| IPBM-NA250-10S | 10 | 250 MCM - 10 Sol | 9.41 | 2.00 | 2.07 | |
| IPBM-NA250-12S | 12 | 250 MCM - 10 Sol | 11.29 | 2.00 | 2.07 | |

Note: Mounting holes will accept up to and including 5/16" mounting hardware for all sizes.

DUAL ENTRY MOUNTING

| Catalog Number | Number of Conductors | Conductor Range | Approximate Dimensions Inches | | | |
|----------------|----------------------|------------------|-------------------------------|------|------|---------|
| | | | L | W | H | Hex Key |
| IPBM-NA2/0-4D | 4 | 2/0 - 14 Sol | 2.73 | 1.56 | 1.31 | 3/16 |
| IPBM-NA2/0-6D | 6 | 2/0 - 14 Sol | 4.07 | 1.56 | 1.31 | |
| IPBM-NA2/0-8D | 8 | 2/0 - 14 Sol | 5.42 | 1.56 | 1.31 | |
| IPBM-NA2/0-10D | 10 | 2/0 - 14 Sol | 6.77 | 1.56 | 1.31 | |
| IPBM-NA2/0-12D | 12 | 2/0 - 14 Sol | 8.11 | 1.56 | 1.31 | |
| IPBM-NA250-4D | 4 | 250 MCM - 10 Sol | 3.78 | 2.63 | 2.07 | 5/16 |
| IPBM-NA250-6D | 6 | 250 MCM - 10 Sol | 5.65 | 2.63 | 2.07 | |
| IPBM-NA250-8D | 8 | 250 MCM - 10 Sol | 7.53 | 2.63 | 2.07 | |
| IPBM-NA250-10D | 10 | 250 MCM - 10 Sol | 9.41 | 2.63 | 2.07 | |
| IPBM-NA250-12D | 12 | 250 MCM - 10 Sol | 11.29 | 2.63 | 2.07 | |
| IPBM-NA350-4D | 4 | 350 MCM - 10 Sol | 3.91 | 3.00 | 2.44 | 5/16 |
| IPBM-NA350-6D | 6 | 350 MCM - 10 Sol | 5.73 | 3.00 | 2.44 | |
| IPBM-NA350-8D | 8 | 350 MCM - 10 Sol | 7.55 | 3.00 | 2.44 | |
| IPBM-NA350-10D | 10 | 350 MCM - 10 Sol | 10.06 | 3.00 | 2.44 | |
| IPBM-NA350-12D | 12 | 350 MCM - 10 Sol | 12.06 | 3.00 | 2.44 | |
| IPBM-NA600-4D | 4 | 600 MCM - 4 Str | 7.71 | 3.00 | 2.69 | 3/8 |
| IPBM-NA600-6D | 6 | 600 MCM - 4 Str | 10.28 | 3.00 | 2.69 | |
| IPBM-NA600-8D | 8 | 600 MCM - 4 Str | 12.84 | 3.00 | 2.69 | |
| IPBM-NA600-10D | 10 | 600 MCM - 4 Str | 15.40 | 3.00 | 2.69 | |
| IPBM-NA600-12D | 12 | 600 MCM - 4 Str | 18.00 | 3.00 | 2.69 | |

Note: Mounting holes will accept up to and including 5/16" mounting hardware for all sizes.

FEATURES AND BENEFITS

- ◆ Direct Mounting.
 - Maintains all of the quality features and benefits of the IPB pre-insulated connectors with direct mounting ability.
- ◆ Mounting Holes.
 - Two isolated mounting holes, one at each end of connector.
 - Special PVC collared insert to isolate mounting hardware from aluminum body contact.
 - Accommodates up to and including standard 5/16" diameter mounting hardware.
- ◆ Versatile.
 - Direct mounting in the installers' location.
 - Eliminates the need for time consuming taping during installation.
 - Simply drill holes in structure and mount connector.

IMILC™

**For use with
copper cables ...**

Insulated mechanical connectors for use with copper cables can be used in dry locations where there is a need to join two or three copper wires together. The IMLC™ connectors are ideal for use in cabletrays, raceways, wireways, ducts and troughs. The IMLC™ connector series is suitable for demanding motor applications by providing a fast, simple and economical way to install, test or replace a motor. The multiple port insulated copper alloy bars mechanically connect incoming copper power leads to the winding leads of the motor in the motor junction box.



| Catalog Number | CONDUCTOR RANGE | | | Tightening Torque In-lbs. | Internal Socket Size Across Flats (Inches) | Strip Length (Inches) |
|----------------------------|-------------------|-----------------------------|-----------------|---------------------------|--------------------------------------------|-----------------------|
| | AWG-CU | DLO-CU-Cable | Hypalon® | | | |
| IMLC-4-2S IMLC-4-3S | 18 SOL. - 4 STR. | 14 (19/27) - 6 (61/24) | 18 AWG - 6 AWG | 45 | 5/32 | 9/16 |
| IMLC-1/0-2S IMLC-1/0-3S | 8 SOL. - 1/0 STR. | 8 (37/24) - 2 (150/24) | 8 AWG - 1 AWG | 150 | 1/4 | 5/8 |
| IMLC-350-2S IMLC-350-3S | 4 SOL. - 350 MCM | 2 (150/24) - 4/0 (550/24) | 4 AWG - 4/0 AWG | 375 | 3/8 | 1 1/8 |
| IMLC-500-2S IMLC-500-3S | 4 SOL. - 500 MCM | 2 (150/24) - 313.1 (775/24) | 4 AWG - 4/0 AWG | 375 | 3/8 | 1 1/4 |

**✦ MORE ECONOMICAL ✦ MORE CONVENIENT TO USE ✦
✦ SAVES TIME ✦ LOWERS INSTALLATION COST ✦**

- **COPPER** - Reusable mechanical connector
- **UL & cUL LISTED** - For use only on copper Solid, Stranded, Hypalon® & DLO type cables
- **INSULATED** - High dielectric strength plastisol provides protection against brush contact
- **WIDE CONDUCTOR RANGE** - 18 AWG through 500 MCM
- **VOLTAGE** - 600 V Maximum, Building Wire: 1000 V Maximum, Signs & Fixtures - Insulation Temperature 90°C
- **HIGHLY VISIBLE** - Bright colors
- **COMPACT** - Factory insulated, one piece, captive set screws, no loose parts
- **PLASTIC PLUGS** - To protect against contamination
- **TORQUE WRENCH & STANDARD HEX SIZES** - Promotes ease of installation to required torques

© Hypalon is a registered trademark of DuPont Dow Elastomers L.L.C.



***PENN-UNION* TAP KIT FOR ROMEX® STYLE CABLE NMTK 142-122**



TAP KIT

Faster, easier, better way to tap ROMEX® style cable.
No need to cut the wire and install junction boxes.

UL Listed Category QAAV; Self-contained interconnectors intended for installation in accordance with NATIONAL ELECTRICAL CODE®, NEC 1999, ARTICLE 336-21.

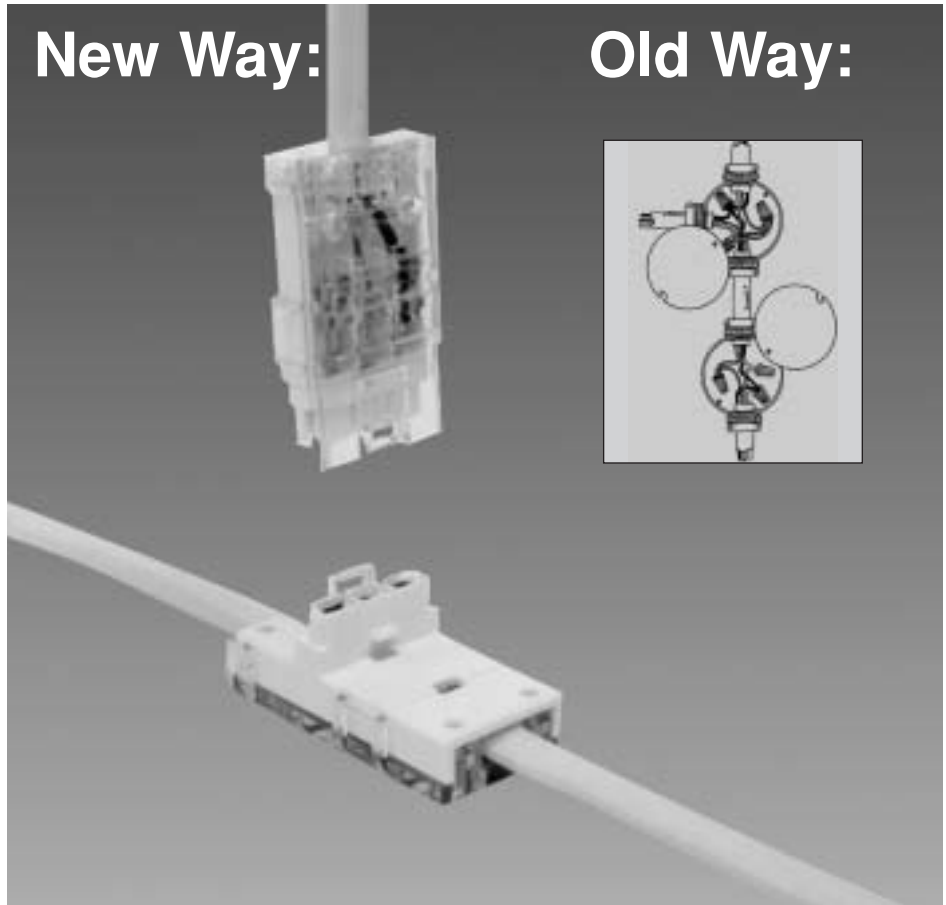
“Devices of Insulating Material. Switch, outlet, and tap devices of insulating material shall be permitted to be used without boxes in exposed cable wiring and for rewiring in existing buildings where the cable is concealed and fished.”*

Applications for “built-on-site” type homes/structures, basements, attics, garages, suspended ceilings, etc., anywhere accessible.

- Concealment applications per NEC:
Article 545, Manufactured Buildings
Article 550, Manufactured Homes
Article 551, Recreational Vehicles
- Saves time - installs in just a few minutes.
- Eliminates junction boxes.
- Taps 14/2 and 12/2 ROMEX® with ground.
- 300 Volt, 20 Amp Rating.
- Double insulation displacement contacts for maximum conductivity.
- Compact, rugged design.
- Conveniently packaged one kit per bag with instructions.

New Way:

Old Way:



Romex® is a registered trademark of General Cable Corporation

PENN-UNION CORP.

Manufacturers of Quality Connectors Since 1928

229 Waterford St. * Edinboro, PA 16412 * Phone: 814/734-1631 * Fax: 814/734-4946

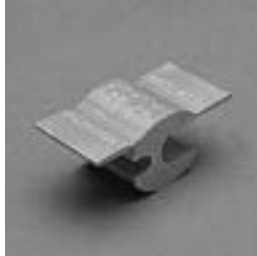
Internet - <http://www.penn-union.com> * e-mail: info@penn-union.com

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ALUMINUM "ULTIMATE RANGE," DOUBLE TAB PRESS-ONS • TYPES KO-R AND KD-R



For any combination of aluminum, copper† or ACSR



High Conductivity—Aluminum extrusions assure cool running high efficiency contacts.

Easy Crimping—Optimum temper for low handle load. Deep indent crimp lines for easy crimp location.

Pre-Loaded Inhibitor—Cleaned contact surfaces kept free of oxide reformation by non-dripping Penn-Union Cual-Aid in individual break-open boxes.

CU to AL—Solid barrier provides conductor separation and prevents strand cutting. Also minimizes galvanic corrosion.

Weather-Protected—Full length tab provides complete enclosure for inhibitor, providing excellent weather protection.

7 CONNECTOR PROGRAM (MECHANICAL, NITROGEN OR HYDRAULIC TOOL)

| Catalog Number | Program Number | Side | Standard Conductor | | | Compact Conductor | | Wire Diameter Range‡ in | No. of Crimps | | Die Size |
|----------------|----------------|--------|------------------------------------|----------------------------------------------|-------------------------------------|----------------------------------------|----------------------------------------------|-------------------------|-----------------------|------------|----------|
| | | | ACSR & Aluminum Alloy Conductors | Aluminum or Copper | | ACSR | Stranded | | Mech. & Nitrogen Tool | Hydr. Tool | |
| | | | | Stranded | Solid | | | | | | |
| KO-R06 | 1 | A B | 6, 4, 2, 6/1 6, 4, 2, 6/1 | 6, 4, 3-7, 2 6, 4, 3-7, 2 | 6, 4, 3, 2 6, 4, 3, 2 | 6, 4, 3, 2 6, 4, 3, 2 | 6, 4, 3, 2 6, 4, 3, 2 | .162-.316 .162-.316 | 4 | 2 | O |
| KO-R08 | 2 | A B | 3, 2, 1, 1/0 6, 4, 3, 2 | 3-3, 2, 1/0, 2/0 6, 4, 3, 2, 1-19 | 1, 1/0, 2/0 6, 4, 3, 2, 1, 1/0 | 2, 1, 1/0 6, 4, 3, 2, 1 | 2, 1, 1/0, 2/0 6, 4, 3, 2, 1 | .260-.419 .162-.332 | 5 | 2 | O |
| KD-R02 | 3 | A B | 1/0, 2/0 6, 4, 3, 2 | 2/0, 3/0 6, 4, 3, 2, 1-19 | 3/0, 4/0 6, 4, 3, 2, 1, 1/0 | 2/0, 3/0 6, 4, 3, 2, 1 | 3/0 6, 4, 3, 2, 1 | .398-.470 .162-.332 | 4 | 2 | D |
| KD-R04 | 4 | A B | 1, 1/0, 2/0 1, 1/0, 2/0 | 1-3, 1/0, 2/0, 3/0 1-3, 1/0, 2/0 | 2/0, 3/0, 4/0 2/0, 3/0 | 1/0, 2/0, 3/0 1/0, 2/0 | 1/0, 2/0, 3/0 1/0, 2/0, 3/0 | .332-.470 .332-.447 | 5 | 2 | D |
| KD-R03 | 5 | A B | 3/0, 4/0 6, 4, 3, 2 | 4/0 6, 4, 3, 2, 1-19 | 250, 266, 300 6, 4, 3, 2, 1, 1/0 | 4/0, 26618/1 6, 4, 3, 2, 1 | 4/0, 250, 266 6, 4, 3, 2, 1 | .475-.563 .162-.332 | 4 | 2 | D |
| KD-R05 | 6 | A B | 3/0, 4/0 1, 1/0, 2/0 | 3/0, 4/0 1-3, 1/0, 2/0 | 2/0, 3/0 | 3/0, 4/0, 26618/1 1/0, 2/0 | 4/0, 250, 266 1/0, 2/0, 3/0 | .461-.563 .332-.447 | 7 | 3 | D |
| KD-R28 | 7 | A B | 3/0, 4/0 3/0, 4/0 | 3/0, 4/0 3/0, 4/0 | | 3/0, 4/0, 26618/1 3/0, 4/0, 26618/1 | 4/0, 250, 266 4/0, 250, 266 | .461-.563 .461-.563 | 7 | 3 | D |
| KO-R10 | - | A B | 4, 3, 2, 1, 1/0 4, 3, 2, 1, 1/0 | 4, 3, 2, 1, 1/0, 2/0 4, 3, 2, 1, 1/0, 2/0 | 2, 1, 1/0 2, 1, 1/0 | 4, 3, 2, 1, 1/0 4, 3, 2, 1, 1/0 | 4, 3, 2, 1, 1/0, 2/0 4, 3, 2, 1, 1/0, 2/0 | .213-.418 .213-.418 | 5 | 2 | O |
| KO-R33 | - | A B | 6, 4 6, 4 | 6, 4, 3-7 6, 4, 3-7 | 6, 4, 3, 2 6, 4, 3, 2 | 6, 4, 3 6, 4, 3 | 6, 4 6, 4 | .162-.260 .162-.260 | 4 | 2 | O |

4 CONNECTOR PROGRAM (HYDRAULIC TOOL ONLY)

| | | | | | | | | | | | |
|--------|---|--------|----------------------------------------|-----------------------------------------------|----------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------|---|---|---|
| KO-R01 | - | A B | 6, 4, 3, 2, 1, 1/0 6, 4, 3, 2 | 6, 4, 3, 2, 1, 1/0 6, 4, 3, 2, 1-19 | 6, 4, 3, 2, 1, 1/0 6, 4, 3, 2, 1, 1/0 | 6, 4, 3, 2, 1, 1/0 6, 4, 3, 2, 1 | 6, 4, 3, 2, 1, 1/0 6, 4, 3, 2, 1 | .162-.398 .162-.332 | - | 2 | O |
| KD-R03 | - | A B | 1, 1/0, 2/0 3/0, 4/0 6, 4, 3, 2 | 1-3, 1/0, 2/0 3/0, 4/0 6, 4, 3, 2, 1-19 | 2/0, 3/0, 4/0 3/0, 4/0 6, 4, 3, 2, 1/0 | 1/0, 2/0, 3/0 4/0, 26618/1 6, 4, 3, 2, 1 | 1/0, 2/0, 3/0 4/0, 250, 266 6, 4, 3, 2, 1 | .332-.563 .162-.332 | - | 2 | D |
| KD-R05 | - | A B | 1, 1/0, 2/0 3/0, 4/0 1, 1/0, 2/0 | 1-3, 1/0, 2/0 3/0, 4/0 1-3, 1/0, 2/0 | 2/0, 3/0, 4/0 3/0, 4/0 2/0, 3/0 | 1/0, 2/0, 3/0 4/0, 26618/1 1/0, 2/0 | 1/0, 2/0, 3/0 4/0, 250, 266 1/0, 2/0, 3/0 | .332-.563 .332-.477 | - | 3 | D |
| KD-R28 | - | A B | 2/0, 3/0, 4/0 2/0, 3/0, 4/0 | 3/0, 4/0 3/0, 4/0 | | 3/0, 4/0, 26618/1 3/0, 4/0, 26618/1 | 3/0, 4/0, 250, 266 3/0, 4/0, 250, 266 | .426-.563 .426-.563 | - | 3 | D |

STREET LIGHTING KO-R21 & 22

Double Tab Design—For making connections to street lights. Packed two per box.

MULTI-TAP CONNECTION KO-R24

Single Tab Design—For making one to four taps with one Press-On, and for making service connections.

| Catalog Number | Size | Conductor Range | Wire Diameter Range‡ | Number of Crimps | | Die Size | TDY-U Pressure Setting |
|----------------|------|--------------------------|----------------------|------------------|------|-----------|------------------------|
| | | | in | 0-52 Hand | Hyd. | | |
| KO-R21 | A | 4 Str.-4 ACSR | .232-.257 | 3 | - | 5/8"-Nose | 2 |
| | B | 12 Sol.-10 Str. | .080-.117 | | | | |
| KO-R22 | A | 6 Sol.-4 Sol. | .162-.204 | 3 | - | 5/8"-Nose | 2 |
| | B | 12 Sol.-10 Str. | .080-.117 | | | | |
| KO-R24* | A | 4 ACSR-2/0 Str. | .257-.418 | 3 | 1 | 0 | 4 |
| | B | 10 Str., 10 Sol., 6 Sol. | .101-.162 | | | | |
| | C | 14 Sol., 10 Sol. | .064-.101 | | | | |

†Not Recommended for copper to copper applications. For special applications consult factory. ‡For conversion to metric range, see page 175.
*Single Tab "Press-On"

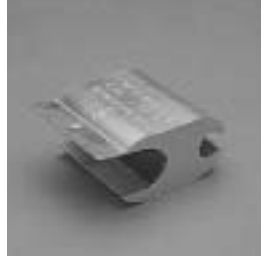
ALUMINUM EXPANDED RANGE PRESS-ONS • TYPES KN-R AND KN



For any combination of aluminum, copper† or ACSR



DOUBLE TAP
TYPE KN-R



SINGLE TAP
TYPE KN

High Conductivity—E.C. Aluminum extrusions assure cool running high efficiency contacts.

Easy Crimping—Optimum temper for low handle load. Deep indent crimp lines for easy crimp location.

Pre-Loaded Inhibitor—Cleaned contact surfaces kept free of oxide reformation by non-dripping Penn-Union Cual-Aid in individual break-open boxes.

CU to AL—Solid barrier provides conductor separation and prevents strand cutting. Also minimizes galvanic corrosion.

Weather-Protected—Full length tab provides complete enclosure for inhibitor, providing excellent weather protection.

| Catalog Number | Groove | Standard Conductor | | | Compressed Conductor | | Wire Diameter Range‡ in | No. of Crimps (Hydraulic) | Die Size |
|----------------|--------|-----------------------------------|-----------------------------------------|------------------|--------------------------------|----------------------|-------------------------|---------------------------|----------|
| | | ACSR* & Aluminum Alloy Conductors | Aluminum or Copper | | ACSR* | Stranded | | | |
| | | | Stranded | Solid | | | | | |
| KN-0 | A | 266.8, 300, 336.4, 397.5-18/1 | 250, 266.8, 300, 336.4, 350, 397.5, 400 | | 336-18/1, 397-18/1, 477-18/1 | 336, 350, 397.5, 477 | .575-.813 | 2 | N |
| | B | 6, 4 | 6, 4, 3-7 | 6, 4, 3, 2 | 6, 4, 3 | 6, 4 | .162-.260 | | |
| KN-1 | A | 266.8, 300, 336.4, 397.5-18/1 | 250, 266.8, 300, 336.4, 350, 397.5, 400 | | 336-18/1, 397-18/1, 477-18/1 | 336, 350, 397.5, 477 | .575-.813 | 2 | N |
| | B | 2, 1, 1/0, 2/0 | 2, 1, 1/0, 2/0 | 1, 1/0, 2/0, 3/0 | 2, 1, 1/0, 2/0 | 1, 1/0, 2/0, 3/0 | .289-.460 | | |
| KN-R2 | A | 266.8, 300, 336.4, 397.5-18/1 | 250, 266.8, 300, 336.4, 350, 397.5, 400 | | 336-18/1, 397.5-18/1, 477-18/1 | 336, 350, 397.5, 477 | .575-.813 | 2 | N |
| | B | 2/0, 3/0, 4/0 | 3/0, 4/0 | 4/0 | 3/0, 4/0, 266-18/1 | 3/0, 4/0, 250, 266 | .428-.630 | | |
| KN-4 | A | 266.8, 300, 336.4, 397.5-18/1 | 250, 266.8, 300, 336.4, 350, 397.5, 400 | | 336-18/1, 397.5-18/1, 477-18/1 | 336, 350, 397.5, 477 | .575-.813 | 3 | N |
| | B | 336.4, 397.5-18/1 | 336.4, 350, 397.5, 400 | | 397-18/1, 477-18/1 | 397, 477, 500 | .666-.813 | | |
| KN-R5 | A | 300, 336.4, 397.5, 477-18/1 | 336.4, 350, 397.5, 400, 450, 477, 500 | | 397-18/1, 477-18/1, 556-18/1 | 477, 500, 556 | .666-.813 | 2 | N |
| | B | 6, 4 | 6, 4, 3-7 | 6, 4, 3, 2 | 6, 4, 3 | 6, 4, 2 | .162-.260 | | |
| KN-R6 | A | 300, 336.4, 397.5, 477-18/1 | 336.4, 350, 397.5, 400, 450, 477, 500 | | 397-18/1, 477-18/1, 556-18/1 | 477, 500, 556 | .666-.813 | 2 | N |
| | B | 3, 2, 1, 1/0 | 3-3, 2, 1, 1/0, 2/0 | 1, 1/0, 2/0, 3/0 | 2, 1, 1/0, 2/0 | 2, 1, 1/0, 2/0, 3/0 | .260-.428 | | |
| KN-R7 | A | 300, 336.4, 397.5, 477-18/1 | 336.4, 350, 397.5, 400, 450, 477, 500 | | 397-18/1, 477-18/1, 556-18/1 | 477, 500, 556 | .666-.813 | 2 | N |
| | B | 2/0, 3/0, 4/0 | 3/0, 4/0 | 4/0 | 3/0, 4/0, 266-18/1 | 4/0, 250, 266 | .460-.630 | | |
| KN-8 | A | 300, 336.4, 397.5, 477-18/1 | 336.4, 350, 397.5, 400, 450, 477, 500 | | 397-18/1, 477-18/1, 556-18/1 | 477, 500, 556 | .666-.813 | 3 | N |
| | B | 266.8, 300, 336.4-18/1 | 250, 266.8, 300, 336.4, 350 | | 336-18/1, 397-18/1 | 336, 350, 397 | .575-.684 | | |

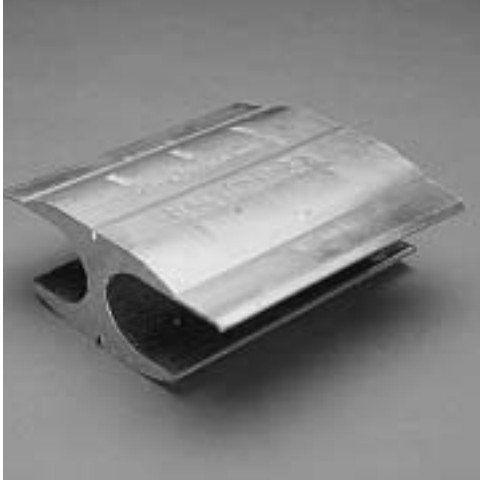
*Conductor sizes listed include all strandings except where 18/1 is shown after conductor size.

†Not recommended for copper to copper applications. For special applications consult factory.

‡For conversion to metric range, see page 175.

ALUMINUM “ULTIMATE RANGE,” DOUBLE TAB PRESS-ONS • TYPE KR-R

For any combination of aluminum, copper† or ACSR



High Conductivity – Aluminum extrusions assure cool running high efficiency contacts.

Easy Crimping – Optimum temper for low handle load. Deep indent crimp lines for easy crimp location.

Pre-Loaded Inhibitor – Cleaned contact surfaces kept free of oxide reformation by non-dripping Penn-Union Cual-Aid in individual break-open boxes.

CU to AL – Solid barrier provides conductor separation and prevents strand cutting. Also minimizes galvanic corrosion.

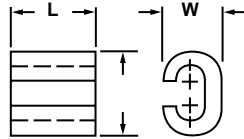
Weather-Protected – Full length tab provides complete enclosure for inhibitor, providing excellent weather protection.

(HYDRAULIC TOOL ONLY)

| Catalog Number | Size | Standard Conductor | | | Compressed Conductor | | Wire Diameter Range‡ in | No. of Crimps (Hydraulic) | Die Size |
|----------------|------|---------------------------------------------------|--------------------------------------------------|----------|-----------------------------------|----------------------------------------|----------------------------|---------------------------|----------|
| | | ACSR & Aluminum Alloy Conductors | Aluminum or Copper | | ACSR | Stranded | | | |
| | | | Stranded | Solid | | | | | |
| KR-R03 | A | 300, 336, 397, 477, 556 18/1 | 336, 350, 397, 400, 450, 477, 500, 550, 556, 600 | | 397, 477, 556, 636 | 477, 500, 556, 636 | .666- .893 | 3 | R |
| | B | 1/0, 2/0, 3/0, 4/0, 266, 336 18/1 | 2/0, 3/0, 4/0, 250, 266, 300, 336, 350 | 3/0, 4/0 | 2/0, 3/0, 4/0, 266, 336, 397 18/1 | 3/0, 4/0, 250, 266, 300, 336, 350, 397 | .398- .684 | | |
| KR-R04 | A | 300, 336, 397, 477, 556 18/1 | 336, 350, 397, 400, 450, 477, 500, 550, 556, 600 | | 397, 477, 556, 636 | 477, 500, 556, 636 | .666- .893 | 4 | R |
| | B | 300, 336, 397, 477, 556 18/1 | 336, 350, 397, 400, 450, 477, 500, 550, 556, 600 | | 397, 477, 556, 636 | 477, 500, 556, 636 | .666- .893 | | |
| KR-R05 | A | 477, 30/7, 556, 605, 636, 653, 666, 715, 795 26/7 | 600, 636, 700, 715, 750, 795, 800, 874, 900 | | 795, 874, 954 | 795, 874, 954 | .879-1.108 | 3 | R |
| | B | 1/0, 2/0, 3/0, 4/0, 266, 336 18/1 | 2/0, 3/0, 4/0, 250, 266, 300, 336, 350 | 3/0, 4/0 | 2/0, 3/0, 4/0, 266, 336, 397 18/1 | 3/0, 4/0, 250, 266, 300, 336, 350, 397 | .398- .684 | | |
| KR-R06 | A | 477 30/7, 556, 605, 636, 653, 666, 715, 795 26/7 | 600, 636, 700, 715, 750, 795, 800, 874, 900 | | 795, 874, 954 | 795, 874, 954 | .879-1.108 | 4 | R |
| | B | 300, 336, 397, 477, 556 18/1 | 336, 350, 397, 400, 450, 477, 500, 550, 556, 600 | | 397, 477, 556, 636 | 477, 500, 556, 636 | .666- .893 | | |
| KR-R07 | A | 477 30/7, 556, 605, 636, 653, 666, 715, 795 26/7 | 600, 636, 700, 715, 750, 795, 800, 874, 900 | | 795, 874, 954 | 795, 874, 954 | .879-1.108 | 4 | R |
| | B | 477 30/7, 556, 605, 636, 653, 666, 715, 795 26/7 | 600, 636, 700, 715, 750, 795, 800, 874, 900 | | 795, 874, 954 | 795, 874, 954 | .879-1.108 | | |

†Not recommended for copper to copper applications. For special applications consult factory.
‡For conversion to metric range, see page 175.

COPPER PRESS-ONS • TYPE CCT



CU
486A
467 SUITABLE
FOR DIRECT
BURIAL

ELECTRICAL
AND
GROUNDING

Copper "C"-Taps are range-taking compression connectors made from high conductivity copper alloy. They are used for making tap or parallel copper connections from 8 SOL to 4/0 STR conductors. C-Tap connectors provide consistent reliability with heavy wall construction that prevents relaxation of the joint after installation. Installation time is reduced because of its "C" shape.

| Catalog Number | Conductor Range | | Approx. Dimensions in Inches | | | Installation Tooling | | | | Strip Length |
|----------------|-------------------|-------------------|------------------------------|--------|-------|----------------------|---------------|--------------------|---------------|--------------|
| | | | | | | TPU-12B | | TDY-U Dieless Tool | | |
| | | | | | | Die Index | No. of Crimps | Pressure Setting | No. of Crimps | |
| CCT-46 | 6 Sol.-4 Str. | 6 Sol.-6 Str. | 5/8 | 3/4 | 7/16 | BG | 1 | 2 | 1 | 3/4 |
| CCT-44 | 6 Sol.-4 Str. | 4 Sol.-4 Str. | 5/8 | 13/16 | 7/16 | BG | 1 | 2 | 1 | 3/4 |
| CCT-24 | 2 Sol.-2 Str. | 8 Sol.-4 Str. | 3/4 | 1 | 5/8 | C | 1 | 4 | 1 | 7/8 |
| CCT-22 | 2 Sol.-2 Str. | 2 Sol.-2 Str. | 3/4 | 1 | 5/8 | C | 1 | 4 | 1 | 7/8 |
| CCT-2020 | 1/0 Str.-2/0 Str. | 1/0 Str.-2/0 Str. | 15/16 | 13/8 | 13/16 | 0 | 1 | 5 | 1 | 1 1/16 |
| CCT-4020 | 3/0 Str.-4/0 Str. | 1/0 Str.-2/0 Str. | 1 1/16 | 1 5/8 | 1 | D3 | 1 | 5 | 1 | 1 3/16 |
| CCT-4040 | 3/0 Str.-4/0 Str. | 3/0 Str.-4/0 Str. | 1 1/16 | 1 9/16 | 1 | D3 | 1 | 5 | 1 | 1 3/16 |

COPPER PRESS-ONS • TYPE CST AND CDT



SINGLE TAB
TYPE CST



DOUBLE TAB
TYPE CDT



Made of high conductivity copper-metal barrier separates conductor thereby eliminating strand cutting. Generous chamfer protects cable. For compressing, use one crimp with hydraulic tools. Three crimps with mechanical tools. See Cat. Page 7 for dimensions.

SINGLE TAB PRESS-ON

| Catalog Number | Side A | Wire Diameter Range† | Side B | Wire Diameter Range† | Die Sets for Hydraulic Tools | | TDY-U Pressure Setting |
|----------------|------------------------|----------------------|------------------------------------------|----------------------|------------------------------|---------------------|------------------------|
| | | in | | in | WH-1, WH-2 | Y-35* | |
| CST-301 | 6 Sol., 6 Str., 4 Sol. | .162-.204 | 8 Sol., 8 Str., 6 Sol. 6 Str., 4 Sol. | .128-.204 | B-K-T | U-BG or U-243 | 4 |
| CST-302† | 4 Sol., 4 Str., 2 Sol. | .204-.258 | 6 Sol., 6 Str., 4 Sol. 4 Str., 2 Sol. | .162-.258 | | | |

DOUBLE TAB PRESS-ON

| | | | | | | | |
|------------------------|--------------------------|-----------|------------------------------------------------------------|------------------------|------------------|---------------------|---|
| CDT-399-8 | 6 Sol., 6 Str., 4 Sol. | .162-.204 | 8 Sol., 6 Str., 4 Sol. | .128-.204 | B or B-K-T | U-BG or U-243 | 4 |
| CDT-398-8† | 4 Sol., 4 Str., 2 Sol. | .204-.258 | 4 Sol., 4 Str., 2 Sol. | .204-.258 | | | 4 |
| CDT-304-8 CDT-303-8 | 2 Str., 1 Str., 1/0 Str. | .292-.375 | 6 Sol., 4 Sol., 4 Str., 2 Sol. 2 Str., 1 Str., 1/0 Str. | .162-.258 .292-.375 | O | O | 4 |
| CDT-308-8 CDT-307-8 | 2/0 Str., 4/0 Str. | .419-.528 | 2 Str., 1 Str., 1/0 Str. 2/0 Str., 4/0 Str. | .292-.375 .419-.528 | D | D ₃ | 4 |

MECHANICAL COMPRESSION TOOLING

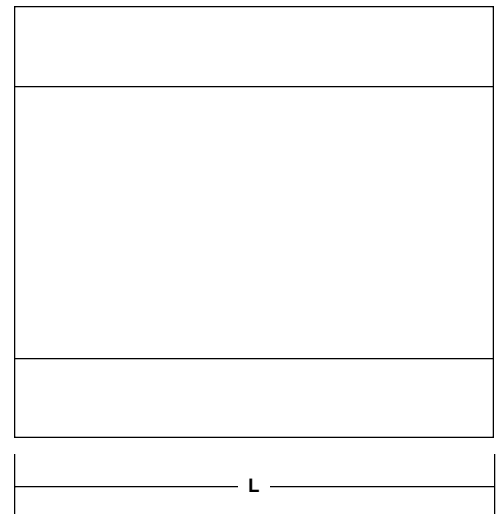
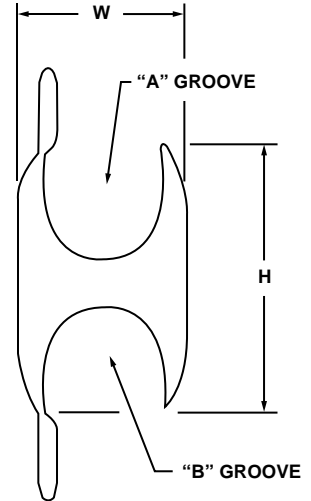
| Catalog Number | "O" Type Tool Die Sets | "W" Die Type Tool | |
|----------------------------|------------------------|-------------------|--------------|
| | | Tools | Die Set |
| CST-301 and CDT-399-8 | T | TMU-0D3 MD6-8 | W-BG W-BG |
| CST-302† and CDT-398-8† | K | TMU-0D3 MD6-8 | W-KK W-KK |

*Burdly Y35 and Alcoa 12A tools both accept same dies.
Penn-Union's TPU-12B can also be used with these dies.
†For conversion to metric range, see page 175.
‡CSA certified for direct burial.

**APPROXIMATE DIMENSIONS FOR ALUMINUM AND COPPER PRESS-ONS
(IN INCHES)**

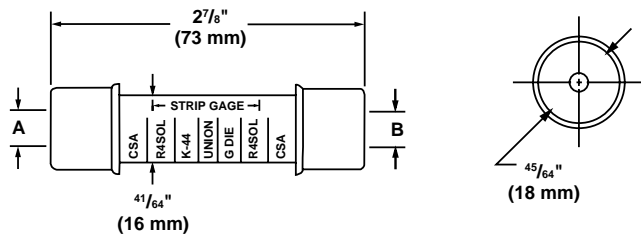
ALUMINUM

| Cat. No. | L | W | H |
|-------------------------|--------|-------|---------|
| • Catalog Page 3 | | | |
| KO-R06 | 1 1/2 | 45/64 | 1 1/8 |
| KO-R08 | 1 1/2 | 45/64 | 1 1/8 |
| KD-R02 | 1 1/2 | 57/64 | 1 15/32 |
| KD-R04 | 1 7/8 | 57/64 | 1 31/64 |
| KD-R03 | 1 1/2 | 57/64 | 1 15/32 |
| KD-R05 | 2 1/4 | 57/64 | 1 7/16 |
| KD-R28 | 2 1/4 | 57/64 | 1 7/16 |
| KO-R10 | 1 1/2 | 45/64 | 1 1/8 |
| KO-R01 | 1 3/4 | 23/32 | 1 5/32 |
| KO-R21 | 5/8 | 19/32 | 39/64 |
| KO-R22 | 13/16 | 29/32 | 19/32 |
| KO-R24 | 1 1/16 | 23/32 | 1 7/64 |
| • Catalog Page 4 | | | |
| KN-0 | 2 | 1 1/4 | 1 31/32 |
| KN-1 | 2 | 1 1/4 | 2 |
| KN-R2 | 2 | 1 1/4 | 2 |
| KN-4 | 3 1/2 | 1 1/4 | 2 1/32 |
| KN-R5 | 2 | 1 1/4 | 2 |
| KN-R6 | 2 | 1 1/4 | 2 |
| KN-R7 | 2 | 1 1/4 | 1 31/32 |
| KN-8 | 3 1/2 | 1 1/4 | 2 |
| • Catalog Page 5 | | | |
| KR-R03 | 3 1/2 | 1 3/4 | 3 5/64 |
| KR-R04 | 4 5/8 | 1 3/4 | 3 1/16 |
| KR-R05 | 3 1/2 | 1 3/4 | 3 5/64 |
| KR-R06 | 4 5/8 | 1 3/4 | 3 3/64 |
| KR-R07 | 4 5/8 | 1 3/4 | 3 1/32 |
| COPPER | | | |
| • Catalog Page 6 | | | |
| CST-301 | 13/16 | 15/32 | 47/64 |
| CST-302 | 13/16 | 35/64 | 53/64 |
| CDT-399-8 | 13/16 | 31/64 | 3/4 |
| CDT-398-8 | 13/16 | 35/64 | 51/64 |
| CDT-303-8 | 53/64 | 23/32 | 1 1/8 |
| CDT-304-8 | 55/64 | 41/64 | 1 1/8 |
| CDT-306-8 | 59/64 | 49/64 | 1 17/64 |
| CDT-305-8 | 63/64 | 51/64 | 1 1/4 |
| CDT-309-8 | 1 1/16 | 29/32 | 1 23/64 |
| CDT-308-8 | 1 1/16 | 29/32 | 1 13/32 |
| CDT-307-8 | 1 1/16 | 29/32 | 1 3/8 |



ALUMINUM PRE-INSULATED PENN-SLEEVES • TYPE PIK

For aluminum to copper or aluminum to aluminum



Pre-insulated Penn-Sleeve Service Entrance Compression Connectors feature extra length for increased contact and solid center barrier.

Pre-filled with Cual-Aid inhibitor and capped to prevent dirt from accumulating in barrel and seal out moisture. Brilliant color of caps for easy identification conform to industry standards, and easy push-thru caps reduce push thru force by 25%.

Aluminum insert is anchored to jacket, assuring that insert is under die when crimping where marking indicates. Strip gage and number of crimps marked on jacket make it hard to misapply. Conforms to ANSI C 119.4 when properly installed.

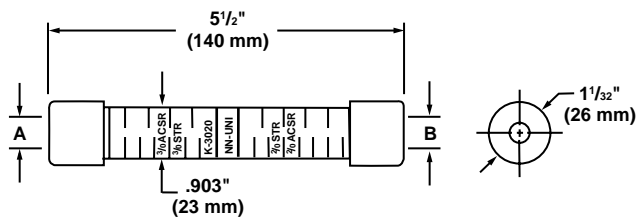
Nylon jacket insulates connector electrically and protects against water and weather. Special nylon formulated for Penn-Union increases shelf life and improves crimpability even at sub zero temperatures.

| Catalog Number | A Range | | | Wire Diameter Range‡ in | Cap Color | B Range | | | Wire Diameter Range‡ in | Cap Color | Die Size |
|----------------|------------|-----------------|------|----------------------------|-----------|------------|-----------------|------|----------------------------|-----------|-----------------|
| | ACSR | Alum. or Copper | | | | ACSR | Alum. or Copper | | | | |
| | | Str. | Sol. | | | | Str. | Sol. | | | |
| PIK-88 | | 10 | 8 | .116-.128 | Brown | | 10 | 8 | .116-.128 | Brown | 5/8 or BG |
| PIK-68 | | 8 | 6 | .145-.162 | Green | | 10 | 8 | .116-.128 | Brown | |
| PIK-66 | | 8 | 6 | .145-.162 | Green | | 8 | 6 | .145-.162 | Green | |
| PIK-48 | 6-6/1 | 5-6 | 4 | .184-.206 | Blue | | 10 | 8 | .116-.128 | Brown | |
| PIK-46 | 6-6/1 | 5-6 | 4 | .184-.206 | Blue | | 8 | 6 | .145-.162 | Green | |
| PIK-44 | 6-6/1 | 5-6 | 4 | .184-.206 | Blue | 6-6/1 | 5-6 | 4 | .184-.206 | Blue | |
| PIK-28 | 4-6/1, 7/1 | 3-4 | 2 | .232-.260 | Orange | | 10 | 8 | .116-.128 | Brown | |
| PIK-26 | 4-6/1, 7/1 | 3-4 | 2 | .232-.260 | Orange | | 8 | 6 | .145-.162 | Green | |
| PIK-24 | 4-6/1, 7/1 | 3-4 | 2 | .232-.260 | Orange | 6-6/1 | 5-6 | 4 | .184-.206 | Blue | |
| PIK-22 | 4-6/1, 7/1 | 3-4 | 2 | .232-.260 | Orange | 4-6/1, 7/1 | 3-4 | 2 | .232-.260 | Orange | |
| PIK-18 | 2-6/1, 7/1 | 1-2 | | .292-.332 | Red | | 10 | 8 | .116-.128 | Brown | |
| PIK-16 | 2-6/1, 7/1 | 1-2 | | .292-.332 | Red | | 8 | 6 | .145-.162 | Green | |
| PIK-14 | 2-6/1, 7/1 | 1-2 | | .292-.332 | Red | 6-6/1 | 5-6 | 4 | .184-.206 | Blue | |
| PIK-12 | 2-6/1, 7/1 | 1-2 | | .292-.332 | Red | 4-6/1, 7/1 | 3-4 | 2 | .232-.260 | Orange | |
| PIK-11 | 2-6/1, 7/1 | 1-2 | | .292-.332 | Red | 2-6/1, 7/1 | 1-2 | | .292-.332 | Red | |
| PIK-08 | | 1/0 | | .373 | Yellow | | 10 | 8 | .116-.128 | Brown | |
| PIK-06 | | 1/0 | | .373 | Yellow | | 8 | 6 | .145-.162 | Green | |
| PIK-04 | | 1/0 | | .373 | Yellow | 6-6/1 | 5-6 | 4 | .184-.206 | Blue | |
| PIK-02 | | 1/0 | | .373 | Yellow | 4-6/1, 7/1 | 3-4 | 2 | .232-.260 | Orange | |
| PIK-01 | | 1/0 | | .373 | Yellow | 2-6/1, 7/1 | 1-2 | | .292-.332 | Red | |
| PIK-00 | | 1/0 | | .373 | Yellow | | 1/0 | | .373 | Yellow | |

‡For conversion to metric range, see page 175.

ALUMINUM PRE-INSULATED PENN-SLEEVES • TYPE PIK 840

For aluminum to copper or aluminum to aluminum



Pre-insulated Penn-Sleeve Service Entrance Compression Connectors for commercial service or large residence.

Prefilled with Cual-Aid inhibitor and capped to prevent dirt from accumulating in barrel and seal out moisture. Polyethylene color coded caps conform to industry standard.

Aluminum insert is anchored to jacket, assuring that insert is under die when crimping where marking indicates. Marked for both hand and hydraulic tools.

Nylon jacket insulates connector electrically and protects against water and weather. Special nylon formulated for Penn-Union increases shelf life and improves crimpability even at sub zero temperatures.

| Catalog Number | A Range | | Wire Diameter Range‡ in | Color Code A Range | B Range | | | Wire Diameter Range‡ in | Color Code B Range | Die Size | |
|----------------|---------|---------------|----------------------------|-----------------------|---------|---------------|------|----------------------------|-----------------------|----------|---------------------------|
| | ACSR | Alum. Str. | | | ACSR | Alum. Str. | Sol. | | | Hand | Hyd. |
| PIK-01R | 1/0 | 1/0 | .373-.398 | Yellow | 2 | 1-2 | 1/0 | .292-.332 | Red | .840 | B-249 or EEI 11A |
| PIK-00R | 1/0 | 1/0 | .373-.398 | Yellow | 1/0 | 1/0 | | .373-.398 | Yellow | | |
| PIK-204 | 2/0 | 2/0 | .419-.447 | Gray | 6 | 5-6 | 4 | .183-.206 | Blue | | |
| PIK-202 | 2/0 | 2/0 | .419-.447 | Gray | 4 | 3-4 | 2 | .231-.258 | Orange | | |
| PIK-201 | 2/0 | 2/0 | .419-.447 | Gray | 2 | 1-2 | 1/0 | .292-.332 | Red | | |
| PIK-200 | 2/0 | 2/0 | .419-.447 | Gray | 1/0 | 1/0 | | .373-.398 | Yellow | | |
| PIK-2020 | 2/0 | 2/0 | .419-.447 | Gray | 2/0 | 2/0 | | .419-.447 | Gray | | |
| PIK-302 | 3/0 | 3/0 | .470-.502 | Black | 4 | 3-4 | 2 | .231-.258 | Orange | | |
| PIK-301 | 3/0 | 3/0 | .470-.502 | Black | 2 | 1-2 | 1/0 | .292-.332 | Red | | |
| PIK-300 | 3/0 | 3/0 | .470-.502 | Black | 1/0 | 1/0 | | .373-.398 | Yellow | | |
| PIK-3020 | 3/0 | 3/0 | .470-.502 | Black | 2/0 | 2/0 | | .419-.447 | Gray | | |
| PIK-3030 | 3/0 | 3/0 | .470-.502 | Black | 3/0 | 3/0 | | .470-.502 | Black | | |
| PIK-402 | 4/0 | 4/0 | .528-.563 | Pink | 4 | 3-4 | 2 | .231-.258 | Orange | | |
| PIK-401 | 4/0 | 4/0 | .528-.563 | Pink | 2 | 1-2 | 1/0 | .292-.332 | Red | | |
| PIK-400 | 4/0 | 4/0 | .528-.563 | Pink | 1/0 | 1/0 | | .373-.398 | Yellow | | |
| PIK-4020 | 4/0 | 4/0 | .528-.563 | Pink | 2/0 | 2/0 | | .419-.447 | Gray | | |
| PIK-4030 | 4/0 | 4/0 | .528-.563 | Pink | 3/0 | 3/0 | | .470-.502 | Black | | |
| PIK-4040 | 4/0 | 4/0 | .528-.563 | Pink | 4/0 | 4/0 | | .528-.563 | Pink | | |

‡For conversion to metric range, see page 175.

ALUMINUM PENN-SLEEVES • TYPE PSK 5/8" O.D.

For aluminum to copper or aluminum to aluminum



Installed by standard dies in hand or hydraulic tools. Forged from pure aluminum, with integral solid center barrier.

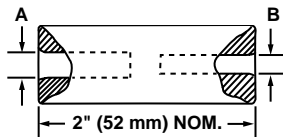
Large smooth entering radii give easy entrance for conductors—minimize stress concentration and chafing from vibration.

Contact surfaces are coated with Cual-Aid. Pushing the wire through the color-coded cap to bottom of the barrel, squirts the Cual-Aid around the strands of conductor.

Crimping the Penn-Sleeve wipes the Cual-Aid's particles across the contact surfaces and insures a tightly gripping, high conductivity joint. The non-flowing vehicle in Cual-Aid keeps air and moisture out of the joint.

Easy push-thru caps reduce push thru force by 25%.

On aluminum to copper, PENN-SLEEVES eliminate the effects of galvanic corrosion.

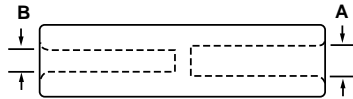


| Catalog Number | A Range | | | | | Cap Color | B Range | | | | | Cap Color |
|----------------|------------|-----------------|------|------------------|----------------------------|-----------|------------|-----------------|------|------------------|----------------------------|-----------|
| | ACSR | Alum. or Copper | | Compressed Cable | Wire Diameter Range‡ in | | ACSR | Alum. or Copper | | Compressed Cable | Wire Diameter Range‡ in | |
| | | Str. | Sol. | | | | | Str. | Sol. | | | |
| PSK-88 | | 10 | 8 | | .116-.128 | Brown | | 10 | 8 | | .116-.128 | Brown |
| PSK-68 | | 8 | 6 | | .145-.162 | Green | | 10 | 8 | | .116-.128 | Brown |
| PSK-66 | | 8 | 6 | | .145-.162 | Green | | 8 | 6 | | .145-.162 | Green |
| PSK-48 | 6-6/1 | 6 | 4 | 6 | .179-.204 | Blue | | 10 | 8 | | .116-.128 | Brown |
| PSK-46 | 6-6/1 | 6 | 4 | 6 | .179-.204 | Blue | | 8 | 6 | | .145-.162 | Green |
| PSK-44 | 6-6/1 | 6 | 4 | 6 | .179-.204 | Blue | 6-6/1 | 6 | 4 | 6 | .179-.204 | Blue |
| PSK-28 | 4-6/1, 7/1 | 4 | 2 | 4 | .225-.258 | Orange | | 10 | 8 | | .116-.128 | Brown |
| PSK-26 | 4-6/1, 7/1 | 4 | 2 | 4 | .225-.258 | Orange | | 8 | 6 | | .145-.162 | Green |
| PSK-24 | 4-6/1, 7/1 | 4 | 2 | 4 | .225-.258 | Orange | 6-6/1 | 6 | 4 | 6 | .179-.204 | Blue |
| PSK-22 | 4-6/1, 7/1 | 4 | 2 | 4 | .225-.258 | Orange | 4-6/1, 7/1 | 4 | 2 | 4 | .225-.258 | Orange |
| PSK-18 | 2-6/1, 7/1 | 2 | 1/0 | 2 | .283-.325 | Red | | 10 | 8 | | .116-.128 | Brown |
| PSK-16 | 2-6/1, 7/1 | 2 | 1/0 | 2 | .283-.325 | Red | | 8 | 6 | | .145-.162 | Green |
| PSK-14 | 2-6/1, 7/1 | 2 | 1/0 | 2 | .283-.325 | Red | 6-6/1 | 6 | 4 | 6 | .179-.204 | Blue |
| PSK-12 | 2-6/1, 7/1 | 2 | 1/0 | 2 | .283-.325 | Red | 4-6/1, 7/1 | 4 | 2 | 4 | .225-.258 | Orange |
| PSK-11 | 2-6/1, 7/1 | 2 | 1/0 | 2 | .283-.325 | Red | 2-6/1, 7/1 | 2 | 1/0 | 2 | .283-.325 | Red |
| PSK-08 | 1/0-6/1 | 1/0 | | 1/0 | .362-.398 | Yellow | | 10 | 8 | | .116-.128 | Brown |
| PSK-06 | 1/0-6/1 | 1/0 | | 1/0 | .362-.398 | Yellow | | 8 | 6 | | .145-.162 | Green |
| PSK-04 | 1/0-6/1 | 1/0 | | 1/0 | .362-.398 | Yellow | 6-6/1 | 6 | 4 | 6 | .179-.204 | Blue |
| PSK-02 | 1/0-6/1 | 1/0 | | 1/0 | .362-.398 | Yellow | 4-6/1, 7/1 | 4 | 2 | 4 | .225-.258 | Orange |
| PSK-01 | 1/0-6/1 | 1/0 | | 1/0 | .362-.398 | Yellow | 2-6/1 | 2 | 1/0 | 2 | .283-.325 | Red |
| PSK-00 | 1/0-6/1 | 1/0 | | 1/0 | .362-.398 | Yellow | 1/0-6/1 | 1/0 | | 1/0 | .362-.398 | Yellow |

‡For conversion to metric range, see page 175.

ALUMINUM NON-TENSION SPLICING SLEEVE • TYPE PS

Penn-Sleeve



The large aluminum compression sleeve with integral solid center barrier is designed for service entrance and non-tension loop splice application. Plastic caps prevent the contamination of contact aid during storage of sleeves.

Good electrical contact and ease of installation is accomplished with the use of pure aluminum.

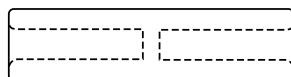
Compression barrel prefilled with Cual-Aid oxide inhibitor.

| Catalog Number | A Range | | | A Wide Diameter Range‡ | B Range | | | B Wire Diameter Range‡ | Length (Approx.) | | No of Crimps Each Groove Tool | | Die Size |
|----------------|---------|--------------------|------|------------------------------|---------|--------------------|-----|------------------------------|---------------------|-----|-------------------------------------|------|---------------------|
| | ACSR | Aluminum Copper | | | ACSR | Aluminum Copper | | | in | in | mm | Hand | |
| | | Str. | Sol. | Str. | | Sol. | | | | | | | |
| PS-00 | 1/0 | 1/0 | – | .375-.398 | 1/0 | 1/0 Str. | – | .375-.398 | | | | | |
| PS-202 | 2/0 | 2/0 Str. | – | .419-.447 | 4 | 3&4 Str. | 2 | .232-.260 | | | | | |
| PS-201 | | | | | 2 | 1&2 Str. | 1/0 | .292-.332 | | | | | |
| PS-200 | | | | | 1/0 | 1/0 Str. | – | .375-.398 | | | | | |
| PS-2020 | | | | | 2/0 | 2/0 Str. | – | .419-.447 | | | | | |
| PS-302 | 3/0 | 3/0 Str. | – | .470-.502 | 4 | 3&4 Str. | 2 | .232-.260 | 4 | 102 | 7 | 4 | .840 or B-249 |
| PS-301 | | | | | 2 | 1&2 Str. | 1/0 | .292-.332 | | | | | |
| PS-300 | | | | | 1/0 | 1/0 Str. | – | .375-.398 | | | | | |
| PS-3020 | | | | | 2/0 | 2/0 Str. | – | .419-.447 | | | | | |
| PS-3030 | | | | | 3/0 | 3/0 Str. | – | .470-.502 | | | | | |
| PS-402 | 4/0 | 4/0 Str. | – | .528-.563 | 4 | 3&4 Str. | 2 | .232-.260 | | | | | |
| PS-401 | | | | | 2 | 1&2 Str. | 1/0 | .292-.332 | | | | | |
| PS-400 | | | | | 1/0 | 1/0 Str. | – | .375-.398 | | | | | |
| PS-4020 | | | | | 2/0 | 2/0 Str. | – | .419-.447 | | | | | |
| PS-4030 | | | | | 3/0 | 3/0 Str. | – | .470-.502 | | | | | |
| PS-4040 | | | | | 4/0 | 4/0 Str. | – | .528-.563 | | | | | |

‡For conversion to metric range, see page 175.

ALUMINUM NEUTRAL SPLICING SLEEVE • TYPE PNK 5/8" O.D.

Penn-Sleeve



The triplex neutral splicing sleeve is made of pure aluminum and contains an integral solid barrier as assurance of equal crimping on each cable and maximum holding power.

These sleeves are crimped with the same tools and dies as used on the small service entrance sleeves.

| Catalog Number | Conductor | | Wire Diameter Range‡ | Length (Approx.) | | No. of Crimps | Crimping Groove |
|----------------|-----------|---------------|----------------------|---------------------|-----|------------------|-----------------|
| | ACSR | Aluminum | | in | mm | | |
| PNK-44 | 6 | 6 Str.–4 Sol. | .184-.204 | 4 1/4 | 108 | 9 | BG, 5/8, Peach |
| PNK-22 | 4 | 4 Str.–2 Sol. | .232-.258 | 4 1/4 | 108 | 9 | BG, 5/8, Peach |
| PNK-11 | 2 | 2 Str. | .292-.316 | 4 1/4 | 108 | 9 | BG, 5/8, Peach |
| PNK-00 | – | 1/0 Str. | .368 | 6 | 152 | 12 | BG, 5/8, Peach |

‡For conversion to metric range, see page 175.

ALUMINUM TERMINAL PLUG • TYPES TP & TPO

For terminating copper or aluminum wire



486B
LISTED
AL9CU

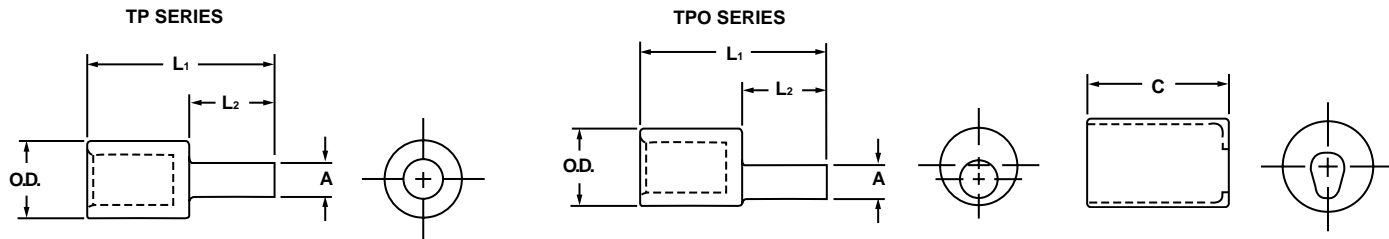


Optimum design to permit use of stranded copper or aluminum conductor in equipment boards and boxes with mechanical connectors.

Type TPO offset pin designed for use in limited spaces in equipment boards and meter boxes.

Simply crimp onto the copper or wire brushed aluminum conductor and install into the mechanical connector supplied with the equipment. No worry about cutting strands. No bulky in-line splice boxes required.

The plug is made of aluminum, tin-plated and filled with Cual-Aid® for a cool running compression connection. A cover is provided for quick insulation of the compression barrel. All required information is marked on the plug.



| Catalog Number | Aluminum Conductor Size | Wire Diameter Range‡ in | Approximate Dimensions | | | | | Crimping Tool Reference | | | |
|----------------|-------------------------|----------------------------|------------------------|------------|----------------------|----------------------|---------|-------------------------|------------|---------|------------------------|
| | | | A in | O.D. in | L ₁ in | L ₂ in | C in | Die Color Code | Burndy Die | TPU Die | TDY-1 Pressure Setting |
| TP-6 | 6 Str. | .184 | .23 | .60 | 1.85 | .68 | 1.75 | Tan | B-296 | T-296 | 2 |
| TP-4 | 4 Str. | .232 | | | | | | | | | |
| TP-2 | 2 Str. | .292 | | | | | | | | | |
| TP-1 | 1 Str. | .332 | | | | | | | | | |
| TP-1/0 | 1/0 Str. | .373 | .29 | .85 | 2.01 | .84 | 2.25 | White | B-298 | T-298 | 5 |
| TP-2/0 | 2/0 Str. | .418 | .33 | | | | | | | | |
| TP-3/0 | 3/0 Str. | .470 | .37 | | | | | | | | |
| TP-4/0 | 4/0 Str. | .528 | .42 | | | | | | | | |
| TP-250 | 250 MCM | .575 | .47 | 1.10 | 2.63 | 1.34 | 2.50 | Brown | B-299 | T-299 | 7 |
| TP-300 | 300 MCM | .630 | .53 | | | | | | | | |
| TP-350 | 350 MCM | .681 | .57 | | | | | | | | |
| TP-400 | 400 MCM | .728 | .63 | | | | | | | | |
| TP-500 | 500 MCM | .813 | .68 | 1.31 | 3.08 | 1.60 | 2.87 | Pink | B-300 | T-300 | 9 |
| TP-600 | 600 MCM | .893 | .73 | | | | | | | | |
| TP-750 | 750 MCM | .998 | .81 | | | | | | | | |
| | | | | | | | | | | | |

OFFSET STYLE

| | | | | | | | | | | | |
|---------|----------|------|-----|------|-----|------|------|--------|-------|-------|---|
| TPO-2/0 | 2/0 Str. | .418 | .33 | .85 | 2.7 | 1.13 | 2.25 | White | B-298 | T-298 | 5 |
| TPO-3/0 | 3/0 Str. | .470 | .37 | | 2.8 | 1.25 | | | | | |
| TPO-4/0 | 4/0 Str. | .528 | .42 | | | 1.28 | | | | | |
| TPO-250 | 250 MCM | .575 | .47 | 1.10 | 3.0 | 1.28 | 2.50 | Brown | B-299 | T-299 | 7 |
| TPO-300 | 300 MCM | .630 | .53 | | 3.1 | 1.47 | | | | | |
| TPO-350 | 350 MCM | .681 | .57 | | | | | | | | |
| TPO-400 | 400 MCM | .728 | .63 | 1.32 | 3.4 | 1.69 | 2.87 | Pink | B-300 | T-300 | 9 |
| TPO-500 | 500 MCM | .813 | .68 | | 4.0 | 1.73 | | | | | |
| TPO-600 | 600 MCM | .893 | .73 | | | | | | | | |
| TPO-750 | 750 MCM | .998 | .81 | 1.46 | 4.2 | | 3.75 | Yellow | B-936 | | |

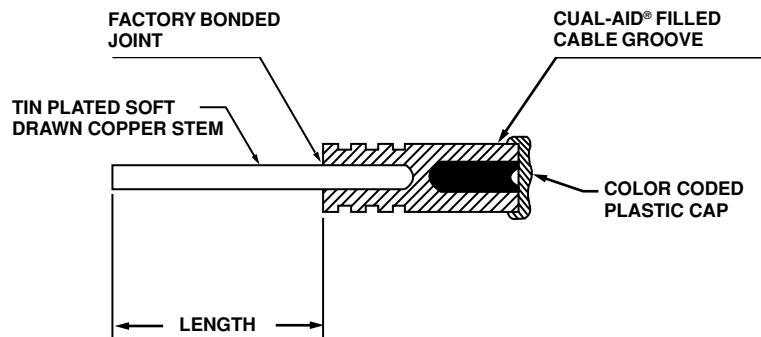
‡For conversion to metric range, see page 175.

PENN-STEMS • TYPES PSKS AND PSS

For terminating aluminum and ACSR conductors



Designed to be used in places where a terminal that was intended to hold a copper wire is too small or unsuitable for an aluminum wire, such as secondaries on transformers and meter entrances.



| Catalog Number | Stem | | | | | Conductor Range | | Wire Dia. Range‡ | Cable Range Color Code | No. of Crimps | | Die Size | TDY-U Pressure Setting |
|----------------------------------------|-------------------------------|-----|-----------------|------------------|-------|------------------|------------------|------------------|------------------------|---------------|----------------|----------------------------------|------------------------|
| | Length (Approx.) | | Conductor Range | Maximum Diameter | | | | | | Hand Tool | Hydraulic Tool | | |
| | in. | mm | | in. | mm | Aluminum | ACSR | in | | | | | |
| PSKS-44-2 ¹ / ₄ | 2 ¹ / ₂ | 64 | 4 Sol. | .204 | 5.15 | 6 Str., 4 Sol. | 6-6/1 | .184-.204 | Blue | 3 | 1 | BG, ⁵ / ₈ | 2 |
| PSKS-24-2 ¹ / ₄ | | | | | | 4 Str., 2 Sol. | 4-6/1, 7/1 | .232-.258 | Orange | | | | |
| PSKS-14-2 ¹ / ₄ | | | | | | 2 Str., 1/0 Sol. | 2-6/1, 7/1 | .292-.325 | Red | | | | |
| PSKS-04-2 ¹ / ₄ | | | | | | 1/0 Str. | 1/0-6/1 | .373-.398 | Yellow | | | | |
| PSKS-22-3 ¹ / ₄ | 3 ¹ / ₄ | 83 | 2 Sol. | .258 | 6.50 | 4 Str. 2 Sol. | 4-6/1, 7/1 | .232-.258 | Orange | 7 | 4 | .840 or B-249 | 4 |
| PSKS-12-3 ¹ / ₄ | | | | | | 2 Str. 1/0 Sol. | 2-6/1, 7/1 | .292-.325 | Red | | | | |
| PSKS-02-3 ¹ / ₄ | | | | | | 1/0 Str. | 1/0-6/1 | .373-.398 | Yellow | | | | |
| PSS-22-6 ¹ / ₂ | 6 ¹ / ₂ | 165 | 2 Sol. | .258 | 6.50 | 4 Str. 2 Sol. | 4 | .232-.258 | Orange | 7 | 4 | .840 or B-249 | 4 |
| PSS-12-6 ¹ / ₂ | | | | | | 2 Str. 1/0 Sol. | 2 | .292-.325 | Red | | | | |
| PSS-01-6 ¹ / ₂ | 6 ¹ / ₂ | 165 | 1/0 Sol. | .325 | 8.33 | 1/0 Str. | 1/0 | .373-.398 | Yellow | 7 | 4 | .840 or B-249 | 4 |
| PSS-201-6 ¹ / ₂ | | | | | | 2/0 Str. | 2/0 | .418-.447 | Gray | | | | |
| PSS-301-6 ¹ / ₂ | | | | | | 3/0 Str. | 3/0 | .470-.502 | Black | | | | |
| PSS-401-6 ¹ / ₂ | | | | | | 4/0 Str. | 4/0 | .528-.563 | Pink | | | | |
| PSS-2630-5 ¹ / ₂ | 5 ¹ / ₂ | 140 | 4/0 Sol. | .460 | 11.70 | 250 MCM | — | .575-.594 | Clear | — | 4 | 1 ¹ / ₈ -2 | 5 |
| PSS-3330-5 ¹ / ₂ | | | | | | 300 MCM | 266.8-18/1, 26/7 | .609-.669 | | | | | |
| PSS-3930-5 ¹ / ₂ | | | | | | 350 MCM | 300-26/7 | .681-.721 | | | | | |
| PSS-4730-5 ¹ / ₂ | | | | | | 477 MCM | 397.5-26/7, 30/7 | .793-.846 | | | | | |
| | | | | | | 500 MCM | 477-18/1, 24/7 | | | | | | |

‡For conversion to metric range, see page 175.

PRESS-ON STIRRUPS • TYPES KBO, KKBO, KBD, KKBD, KBN AND KKBN

Aluminum or ACSR to copper taps



Installed easily and safely with standard "O" and "D" dies in hand or hydraulic tools. Designed to protect energized conductors from arcing damage when live taps are made.

Types KBO and KBD have a single aluminum Press-On clamping element for standard duty. Types KKBO and KKBD have double Press-Ons for heavy duty. Tin plated, hard drawn, solid copper bail permits taps to be taken off at any convenient angle.

Factory filled with Cual-Aid® joint compound. Shipped in polyethylene bags to keep assembly clean until ready for use.

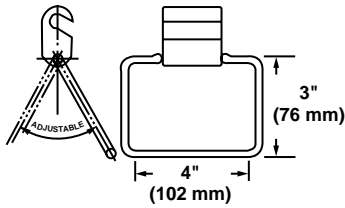


FIG. 1 – TYPES KBO, KBD AND KBN

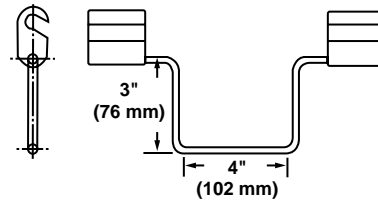


FIG. 2 – TYPES KKBO, KKBD AND KKBN

| Catalog Number | Catalog Number | Conductor Range | | Wire Diameter Range‡ | H.D.* Copper Bail | Bail Dia. in | Installation Tools & Dies | | | TDY-U Pressure Setting |
|----------------|----------------|------------------|----------------------|----------------------|-------------------|--------------|-----------------------------------------------------------------------------|------------------------------------------|------------------------------------------------|------------------------|
| | | ACSR | Aluminum | | | | Kearney | Alcoa | Burndy | |
| Fig. 1 | Fig. 2 | | | in | | | | | | |
| KBO-W4-2 | KKBO-W4-2 | 6 | 6 Sol.-6 Str.-4 Sol. | .162-.204 | 2 Sol. | .258 | Use Either Model WH-1 Hydraulic Tool or O-1, O-2, O-52 Hand Tool with O Die | Use Model 12-A Hydraulic Tool with O Die | Use Model Y-35 Hydraulic Tool with O Die Index | 4 |
| KBO-R2-2 | KKBO-R2-2 | 2-4 | 2 Sol.-2 Str.-4 Str. | .232-.316 | 2 Sol. | .258 | | | | |
| KBO-1/0-2 | KKBO-1/0-2 | 1/0 | 1/0 Str. | .368-.398 | 2 Sol. | .258 | | | | |
| KBD-2/0-2 | KKBD-2/0-2 | 1/0-2/0 | 1/0-2/0 Str. | .368-.447 | 2 Sol. | .258 | Use either Model WH-1 Hydraulic Tool or O-51, O-52 Hand Tool with D Die | Use Model 12-A Hydraulic Tool with D Die | Use Model Y-35 Hydraulic Tool with D Die Index | 4 |
| KBD-4/0-2 | KKBD-4/0-2 | 3/0-4/0 | 4/0 Str. | .502-.563 | 2 Sol. | .258 | | | | |
| KBD-4/0-0 | KKBD-4/0-0 | 3/0-4/0 | 4/0 Str. | .502-.563 | 1/0 Sol. | .325 | | | | |
| KBN-0-2 | KKBN-0-2 | 266.8-397.5 18/1 | 250-400 MCM | .575-.743 | 2 Sol. | .258 | Use Model WH-2 Hydraulic Tool with N Die | Use Model 12-A Hydraulic Tool with N Die | Use Model Y-35 Hydraulic Tool with N Die Index | 7 |
| KBN-1-0 | KKBN-1-0 | 266.8-397.5 18/1 | 250-400 MCM | .575-.743 | 1/0 Sol. | .325 | | | | |
| KBN-R5-2 | KKBN-R5-2 | 300-477 18/1 | 336.4-500 MCM | .666-.814 | 2 Sol. | .258 | | | | |
| KBN-R6-0 | KKBN-R6-0 | 300-477 18/1 | 336.4-500 MCM | .666-.814 | 1/0 Sol. | .325 | | | | |

‡For conversion to metric range, see page 175.

For sizes not listed consult factory.

*Bails are tin plated.

COPPER ALLOY SPLIT BOLT CONNECTORS • TYPES S AND SEL

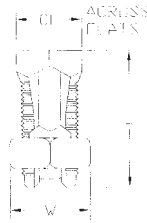
For copper and copperweld wires

**THE MOST VERSATILE SPLIT BOLT ON THE MARKET
MANUFACTURED IN THE USA**

Made from high strength copper alloy. Highly resistant to corrosion and season cracking. Under torque this design provides high contact pressure between conductors.

TYPE "SEL":

The first 3-conductor split bolt approved for grounding!



2 CONDUCTORS

| CATALOG NO. | RANGE EQ RUN & TAP | MIN TAP WITH ONE MAX. MAIN | MAX COND COPPERWELD | | WIRE DIAMETER range † | L | W | ACROSS FLATS | TORQUE IN/LBS. |
|-------------|--------------------|----------------------------|---------------------|--------|-----------------------|------|------|--------------|----------------|
| | | | STR. | TYPE A | | | | | |
| S-8* | 16str-8str | 16str | - | - | .057 - .145 | .84 | .50 | .38 | 80 |
| S-6* | 10sol-6sol | 16sol | - | - | .102 - .162 | 1.05 | .63 | .50 | 165 |
| S-4* | 8sol-4sol | 16sol | 3 No. 12 | 8A | .128-.204 | 1.05 | .69 | .56 | 165 |
| S-3* | 6sol-2sol | 12sol | 3 No. 9 | 5A | .162-.258 | 1.31 | .81 | .69 | 275 |
| S-2* | 6sol-2str | 14str | 3 No. 7 | 3A | .162-.292 | 1.31 | .81 | .69 | 275 |
| S-1/0* | 4sol-1/0str | 14sol | 3 No. 6 | 2A | .204-.375 | 1.64 | .88 | .75 | 385 |
| S-2/0 | 2sol-2/0str | 14str | 3 No. 5 | - | .258-.418 | 1.81 | 1 | .81 | 385 |
| S-3/0 | 2sol-3/0str | 12sol | 7 No. 7 | - | .258-.470 | 2 | 1.13 | .88 | 500 |
| S-4/0-250 | 1/0sol-250 | 10sol | 7 No. 5 | - | .325-.575 | 2.08 | 1.31 | 1 | 650 |
| S-350+ | 4/0str-350 | 8sol | 19 No. 7 | - | .528-.682 | 2.63 | 1.63 | 1.50 | 650 |
| S-500+ | 250-500 | 8sol | 19 No. 6 | - | .575-.815 | 3 | 1.81 | 1.63 | 825 |
| S-750++ | 350-750 | 8sol | 19 No. 5 | - | .682-.999 | 3.75 | 2.13 | 1.94 | 1000 |
| S-1000++ | 500-1000 | 8sol | - | - | .815-1.153 | 4 | .250 | 2.25 | 1100 |

+ UL Only Grounding and Bonding
++ Not approved for grounding & bonding (no standard)
* RUS accepted

2-3 CONDUCTORS

| CATALOG NO. | RANGE EQ RUN & TAP | MIN TAP WITH ONE MAX. MAIN | MAX COND COPPERWELD | | WIRE DIAMETER range † | L | W | ACROSS FLATS | TORQUE IN/LBS. |
|-------------|--------------------|----------------------------|---------------------|--------|-----------------------|------|-----|--------------|----------------|
| | | | STR. | TYPE A | | | | | |
| SEL-8* | 16str-8str | 16str | - | - | .057-.145 | .84 | .50 | .38 | 80 |
| SEL-6* | 10sol-6sol | 16sol | - | - | .102-.162 | 1.05 | .69 | .56 | 165 |
| SEL-4* | 8sol-4sol | 16sol | 3 No. 12 | 8A | .128-.204 | 1.27 | .69 | .56 | 165 |
| SEL-2* | 6sol-2str | 14str | 3 No. 7 | 3A | .162-.292 | 1.55 | .81 | .69 | 275 |

† For conversion to metric range, see page 171
* RUS accepted.

486A

467



600V
CU
90°C

LISTED
GROUNDING POWER &
BONDING GROUNDING

NEW

**FEATURE-NOW APPROVED FOR
GROUNDING/BONDING AND
ELECTRICAL**

| Connector Family | POWER | UL-467 GROUNDING | | | CSA C22.2 NO. 41 GROUNDING | | |
|------------------|---------------------------|------------------------|---------------------|-----------------------|----------------------------|---------------------|---------------|
| | CSA22.2 NO. 65 Wire Range | UL Grounding Max. Wire | Grounding & Bonding | Direct Burial w/Rebar | CSA Grounding Max. Wire | Grounding & Bonding | Direct Burial |
| S SEL | 16 Str.-1000 MCM | 500 MCM | Yes | No | 250 MCM | Yes | No |
| *S-DB SEL-DB | 16 Str. 500 MCM | 500 MCM | Yes | Yes | 250 MCM | Yes | Yes |

*Direct Burial-see What's New Section front of catalog
POWER: UL 486A, CSA C22.2 NO. 65
GROUNDING AND BONDING: UL 487, CSA C22.2 NO. 41

Features and Benefits

◆ Application/Use.

- Type S is for use with 2-conductors for electrical power applications, and grounding & bonding applications, except direct burial.
- Type SEL is for use with 2 or 3-conductors for electrical power applications, and grounding & bonding applications, except direct burial.

◆ Versatile • Multi-uses:

- Electrical
- Splicing and taping
- Grounding and Bonding
 - Above ground splicing, taping and bonding.

◆ Unique Design

- SEL-first 3-conductor split bolt approved for grounding & bonding with full CSA certification.
- Re-usable with proper installation practice.
- Free running threads.
- Pressure bar design features give assurance of high "pull-out" and a secure connection on all combinations of conductors.
- True hex design for position grip and assured torquing.
- Wide wire range per size.
- 600V-90° C temperature.

◆ Conductors.

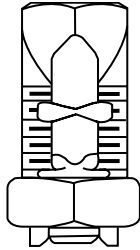
- Wide range of solid, compact, compressed, concentric and copperweld.

◆ Installation

- Torque wrench plus socket, box or open-end wrenches.
- True hex design sizing.

COPPER ALLOY-BODIED SPLIT BOLT CONNECTORS • TYPE SW

For copper to copper, copper to aluminum, and aluminum to aluminum



Made from high strength copper alloy—highly resistant to corrosion and season cracking. The design provides, under torque, high contact pressure between conductors.

Electro-tin plated bolt, nut, spacer and pressure bar.

We recommend using Penn-Union Cual-Aid®, an oxide inhibiting compound, with this connector. When connecting aluminum or ACSR wires, wire brush the conductor with Cual-Aid #11C.

| Catalog Number | Copper and Aluminum | | ACSR | | GUY Str. | Copperweld Max. | | Wire Diameter Range‡ | Recommended Torque (in.-lb.) | |
|----------------|-----------------------------|---------|-----------------------------|----------------------|----------|-----------------|----------|----------------------|------------------------------|------|
| | Range of Equal Main and Tap | | Min. Tap With One Max. Main | Range of Main or Tap | | Str. | Type A | | | |
| | Min. | Max. | | Min. | | | | | | Max. |
| SW-3 | 14 Str. | 8 Str. | 14 Str. | — | 8 | 5/32 | — | — | .073-.146 | 165 |
| SW-4 | 10 Str. | 6 Str. | 10 Sol. | — | 6 | 7/32 | 3 No. 12 | 8A | .116-.184 | 165 |
| SW-5▲ | 8 Sol. | 4 Str.* | 8 Sol. | 6 | 4 | 1/4 | 3 No. 9 | 5A | .128-.258 | 275 |
| SW-6▲ | 8 Sol. | 2 Str. | 8 Sol. | 6 | 2 | 5/16 | 3 No. 7 | 3A | .128-.316 | 275 |

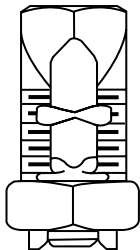
‡For conversion to metric range, see page 175.

▲RUS accepted.

*UL486A listed with 2 sol cu.

COPPER ALLOY-BODIED SPLIT BOLT CONNECTORS • TYPE SW

For copper to copper*



Made from high strength copper alloy—highly resistant to corrosion and season cracking. The design provides, under torque, high contact pressure between conductors.

Electro-tin plated bolt, nut, spacer and pressure bar.

| Catalog Number | UL Listed Copper Range* | | | Aluminum Range Not UL Listed | | Copperweld Max. Str. | Wire Diameter Range‡ | Recommended Torque (In.-Lb.) |
|----------------|-----------------------------|----------|-----------------------------|------------------------------|----------------|----------------------|----------------------|------------------------------|
| | Range of Equal Main and Tap | | Min. Tap With One Max. Main | Aluminum | ACSR | | | |
| | Min. | Max. | | | | | | |
| SW-1▲ | 16 Str. | 10 Str. | 16 Str. | 16 Str.-10 Str. | — | — | .057- .116 | 80 |
| SW-2▲ | 16 Str. | 8 Str. | 16 Str. | 16 Str.-8 Str. | — | — | .057- .145 | 80 |
| SW-7▲ | 6 Sol. | 1/0 Str. | 10 Sol. | 6 Sol.-1/0 Str. | 6-1 | 3 No. 6 | .162- .375 | 385 |
| SW-8▲ | 6 Str. | 2/0 Str. | 10 Sol. | 6 Str.-2/0 Str. | 6-1/0 | 3 No. 5 | .184- .419 | 385 |
| SW-9A | 4 Str. | 3/0 Str. | 6 Sol. | 4 Str.-3/0 Str. | 6-2/0 | 7 No. 7 | .198- .470 | 500 |
| SW-10 | 4 Str. | 250 MCM | 4 Str. | 4 Str.-250 MCM | 4-4/0 | 7 No. 5 | .232- .575 | 650 |
| SW-11 | 3/0 Str. | 350 MCM | 1 Sol. | 3/0 Str.-350 MCM | 2/0-336.4 18/1 | 19 No. 7 | .447- .682 | 650 |
| SW-12 | 3/0 Str. | 500 MCM | 1/0 Str. | 3/0 Str.-500 MCM | 2/0-477 18/1 | 19 No. 6 | .447- .815 | 825 |
| SW-13 | 250 MCM | 750 MCM | 2/0 Str. | 250-750 MCM | 4/0-666.6 | 19 No. 5 | .563- .999 | 1000 |
| SW-14 | 350 MCM | 1000 MCM | 4/0 Str. | 350-1000 MCM | 300-900 | — | .682-1.162 | 1100 |

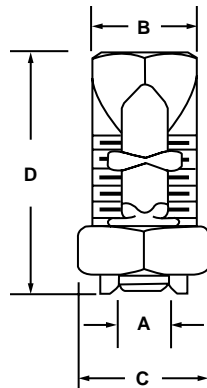
*Can be used on aluminum conductor, however they are not UL Listed for that application.

‡For conversion to metric range, see page 175.

▲RUS accepted.

ALUMINUM SPLIT BOLT CONNECTORS • TYPE SWA

For aluminum to aluminum, copper to aluminum, and copper to copper



Made from high strength, heat treated aluminum alloy—highly resistant to corrosion. The design provides, under torque, high contact pressure between conductors.

Electro tin-plated bolt, nut, spacer and pressure bar.

Meets and exceeds requirements of the UL486B standard.

There is no need to scratch brush or use oxide inhibiting compounds for installation of 90°C max rated conductors in NEC applications. For all other applications, the use of Penn-Union Cual-Aid® #11C, oxide inhibiting compound, is recommended.

| Catalog Number | Range of Equal Main & Tap (Copper and Aluminum) | Wire Diameter Range‡ (in inches) | Approximate Dimensions (In Inches) | | | | Recommended Torque (in.-lb.) |
|----------------|-------------------------------------------------|----------------------------------|------------------------------------|------|------|------|------------------------------|
| | | | A | B | C | D | |
| SWA-7 | 6 Sol. - 1/0 Str. | .162-.375 | .375 | .750 | 1.00 | 1.81 | 385 |
| SWA-8 | 2 Sol. - 2/0 Str. | .257-.418 | .419 | .88 | 1.12 | 2.12 | 390 |
| SWA-10 | 1/0 Str. - 250 MCM | .368-.575 | .582 | 1.19 | 1.50 | 2.63 | 650 |
| SWA-11 | 2/0 Str. - 350 MCM | .414-.681 | .746 | 1.31 | 1.63 | 2.91 | 650 |
| SWA-12 | 3/0 Str. - 500 MCM | .464-.814 | .834 | 1.44 | 1.81 | 3.28 | 825 |

‡For conversion to metric range, see page 175.

COPPER SERVICE ENTRANCE CONNECTORS • TYPE SX



For copper wire or cable



| Catalog Number | Conductor Range | Wire Diameter Range‡ |
|----------------|-----------------|----------------------|
| | Stranded | In. |
| SX-12 | 12 | .092 |
| SX-10-8 | 10-8 | .116-.146 |
| SX-6▲ | 6 | .184 |
| SX-4▲ | 6-4 | .184-.232 |
| SX-2 | 4-2 | .232-.292 |

‡For conversion to metric range, see page 175.

▲RUS accepted.

Body is made from cold drawn copper extrusions. Slotted silicon bronze screws provides ease in installation—with screwdriver or pliers. Type SX makes a secure, low resistance joint which is easy to tape.

COPPER SERVICE ENTRANCE CONNECTORS • TYPE SAX

For copper wire or cable



Made from high strength hex bronze rod—slotted silicon bronze screws. Spacer is manufactured from high conductivity copper. Entire connector, including screw, is tin-plated to prevent galvanic corrosion.

We recommend using Penn-Union Cual-Aid, an oxide inhibiting compound. When connecting aluminum or ACSR wires, wire brush the conductor with Cual-Aid #11C.

| Catalog Number | Maximum Conductor | | | | | Maximum Wire Diameter‡ in |
|----------------|-------------------|----------|------|--------|----------|------------------------------|
| | Aluminum | | ACSR | Copper | | |
| | Solid | Stranded | | Solid | Stranded | |
| SAX-12-8 | 12 | 8 | — | 12 | 8 | .145 |
| SAX-6 | 5 | 6 | 8 | 5 | 6 | .184 |
| SAX-4 | 2 | 3 | 4 | 2 | 3 | .260 |
| SAX-2 | 1 | 2 | 3 | 1 | 2 | .292 |

‡For conversion to metric range, see Technical Data Section.

SILICON BRONZE VISE GRIPS • TYPE FF

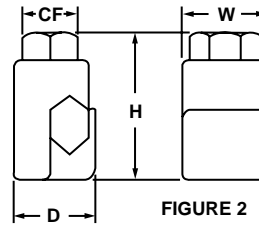
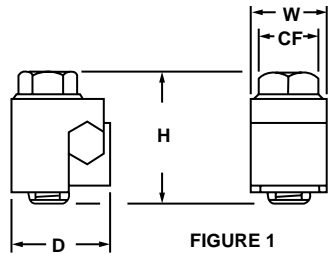
For copper to copper wire



A stronger and more rigid connector of the vise type, with more grip on the conductors—and full compression with any conductor combination.

Easy to install. Non-swiveling—the slide cannot rotate out of the body.

Castings made from bronze.



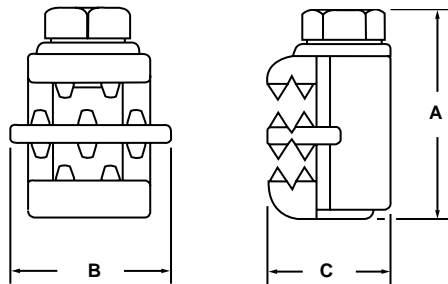
| Catalog Number | Conductor Range | | Wire Diameter Range‡ | Fig. No. | Approximate Dimensions | | | | | | | |
|----------------|----------------------|----------------------|----------------------|----------|---------------------------|--------|--------|------|-------|------|-------|------|
| | Maximum 2 Conductors | Minimum 2 Conductors | | | Stud Diameter No. Threads | Hex CF | D | | H | | W | |
| | | | | | | | in | mm | in | mm | in | mm |
| FF-6* | 6 Sol. | 8 Sol. | .128-.162 | 1 | 1/4-28 | 3/8 | 3/4 | 19.0 | 1 | 25.4 | 5/8 | 15.8 |
| FF-4 | 4 Str. | 6 Sol. | .162-.232 | 1 | 5/16-24 | 9/16 | 13/16 | 20.6 | 15/32 | 29.4 | 5/8 | 15.8 |
| FF-2 | 2 Str. | 4 Sol. | .204-.292 | 2 | 5/16-24 | 9/16 | 13/16 | 20.6 | 13/8 | 34.9 | 13/16 | 20.6 |
| FF-2/0 | 2/0 Str. | 2 Sol. | .258-.419 | 2 | 3/8-24 | 9/16 | 1 1/8 | 28.5 | 1 7/8 | 47.6 | 31/32 | 24.6 |
| FF-4/0 | 4/0 Str. | 1/0 Sol. | .325-.528 | 2 | 3/8-24 | 9/16 | 1 3/16 | 30.1 | 2 1/8 | 53.9 | 15/16 | 23.8 |

‡For conversion to metric range, see page 175.

*Supplied with slotted hex head bolts only.

TIN PLATED SILICON BRONZE INSULATION PIERCING VISE GRIPS • TYPE MGC

For messenger cable



The MGC-167 clamp with its piercing teeth is specifically designed for use on self supporting rural, Figure 8, or IM type telephone cable when connecting the messenger to the ground wire. When clamp is tightened, the piercing teeth puncture through the insulation of the messenger, eliminating the need for wire stripping, forming a positive ground connection. Clamping bolt is stainless steel.

| Catalog Number | Conductor Range | | Approx Dimensions | | | | | | Bolt Size |
|-------------------------|------------------------------------------------|-----------------------------------------------------------------|-------------------|------|-------|------|----|------|---------------------|
| | Messenger Cable Dia. | Tap | A | | B | | C | | |
| | | | in | mm | in | mm | in | mm | |
| MGC-167 | .146"-.312" dia. (3.7-7.9 mm ²) | 8 Str-4 Str (.146"-.232" dia.) (3.7-5.9 mm ²) | 1 5/8 | 41.3 | 1 1/4 | 31.8 | 1 | 25.4 | 5/16-18 1/2 Hex |
| MGC-167 ^{9/16} | .146"-.312" dia. (3.7-7.9 mm ²) | 8 Str-4 Str (.146"-.232" dia.) (3.7-5.9 mm ²) | 1 5/8 | 41.3 | 1 1/4 | 31.8 | 1 | 25.4 | 5/16-24 9/16 Hex |

ALUMINUM PARALLEL CLAMPS • TYPE AVT

Penn-Tap heavy duty distribution



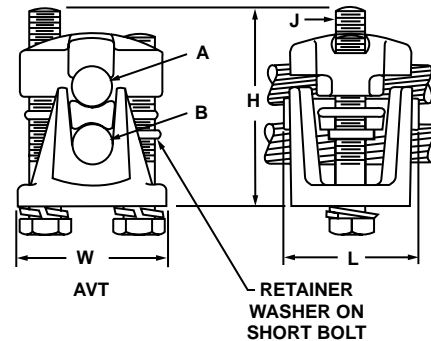
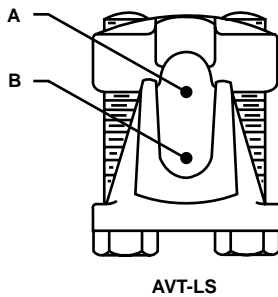
Specially designed wrap-around finger on spacer minimizes cold flow over entire conductor range.

Rounded contours for easy tapping.

Accommodates a range of aluminum or copper conductor in either groove*. Place aluminum above copper.

Staking the longer of the two bolts makes the assembly one unit with no loose parts to drop.

Top and bottom castings are of massive proportioned high strength aluminum alloy and Type EC high conductivity aluminum alloy spacer assembled with steel or in larger sizes anodized high strength aluminum hardware.



| Catalog Number | | Conductor Range AWG and ACSR and AR* | | | | Approximate Dimensions | | | | | | |
|------------------|--------------------|---------------------------------------------------|----------------------|---------------------------------|----------------------|--------------------------------|-----|--------------------------------|----|---------------------------------|----|--------------------------------|
| Steel Hardware | Aluminum Hardware | A Main | Wire Diameter Range‡ | B Tap | Wire Diameter Range‡ | H | | L | | W | | J |
| | | | in | | in | in | mm | in | mm | in | mm | in |
| AVT-0 AVT-0LS | — | 3 Sol.-1/0 Str. 4-1/0 ACSR 6 AR | .229-.440 | 6 Sol.-1/0 Str. 6-1/0 ACSR | .162-.398 | 2 ⁷ / ₈ | 73 | 1 ⁹ / ₁₆ | 40 | 1 ⁵ / ₈ | 41 | 5 ⁵ / ₁₆ |
| AVT-1 AVT-1LS | — | 2 Sol.-3/0 Str. 3-2/0 ACSR 6-4 AR | .258-.524 | 6 Sol.-3/0 Str. 8-2/0 ACSR | .128-.470 | 2 ¹ / ₈ | 54 | 1 ³ / ₄ | 44 | 1 ³ / ₄ | 44 | 5 ⁵ / ₁₆ |
| AVT-2 AVT-2LS | AVT-2A | 1/0 Sol.-250 MCM 1-4/0 ACSR 6-4 AR | .325-.575 | 6 Sol.-250 MCM 6-4/0 ACSR | .162-.575 | 2 ⁵ / ₈ | 67 | 2 | 51 | 2 | 51 | 3 ³ / ₈ |
| AVT-3 | AVT-3A AVT-3ALS | 3/0 Sol.-350 MCM 3/0-336.4 ACSR 6-1/0 AR | .410-.741 | 6 Sol.-350 MCM 6-336.4 ACSR | .162-.741 | 3 ¹ / ₁₆ | 78 | 2 ¹ / ₄ | 57 | 2 ⁷ / ₁₆ | 62 | 1 ¹ / ₂ |
| AVT-4 | AVT-4A AVT-4ALS | 350-500 MCM 336.4-397.5 ACSR 2/0-3/0 AR | .682-.836 | 4 Sol.-500 MCM 5-397.5 ACSR | .204-.815 | 3 ⁹ / ₁₆ | 90 | 2 ³ / ₄ | 70 | 2 ¹ / ₂ | 64 | 1 ¹ / ₂ |
| AVT-5 | AVT-5A AVT-5ALS | 350-874.5 MCM 336.4-715.5 ACSR 2/0-336.4 AR | .682-1.092 | 3/0-874.5 MCM 3/0-715.5 ACSR | .470-1.077 | 4 ¹ / ₁₆ | 103 | 3 ³ / ₈ | 88 | 2 ¹³ / ₁₆ | 71 | 1 ¹ / ₂ |
| AVT-6 | AVT-6A AVT-6ALS | 450-1000 MCM 397.5-900 ACSR 4/0-397.5 AR | .743-1.162 | 3/0-1000 MCM 3/0-900 ACSR | .470-1.162 | 4 ¹ / ₄ | 108 | 3 ³ / ₄ | 95 | 3 ³ / ₁₆ | 81 | 5 ⁵ / ₈ |

*Not recommended for copper to copper applications, unless part is tin-plated.

‡For conversion to metric range, see page 175.

*AR—Aluminum cable rating with Preformed Armor Rods.

Add suffix “-TN” to the catalog number for a tin plated aluminum connector. Example: AVT-O-TN.

Add suffix “-BF” to the catalog number for prefilling with Cual-Aid and bagging. Example: AVT-O-BF.

Suffix LS—Less spacer; same length hardware.

ALUMINUM MECHANICAL TAPS • TYPE GPT

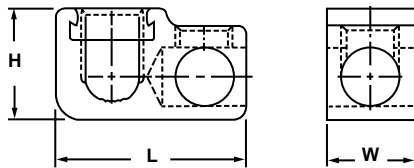


UL486B
LISTED
AL9CU



GPT

Fabricated from high strength aluminum alloy extrusion. 100% reusable, using a hex wrench. Sliding retainer allows easy installation on run conductor. Finish electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire (for added protection, apply Penn-Union Cual-Aid® to cable, before installation).



GPT

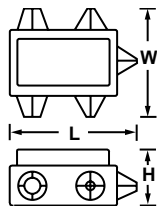
Parallel and "T" Tap

| Catalog Number | Conductor Range | | Approximate Dimensions | | |
|-----------------------|------------------|--------------------------------------------|--------------------------------|--------------------------------|---------------------------------|
| | Main | Tap | H | W | L |
| Parallel Taps* | | | In. | In. | In. |
| GPT-2 | 12 Sol.-2 Str. | 14 Sol.-4 Str. CU 12 Sol.-4 Str. AL | 7/8 | 5/8 | 1 ²⁵ / ₆₄ |
| GPT-1/0 | 2 Str.-1/0 Str. | 14 Sol. 1/0 Str. CU 12 Sol.-1/0 Str. AL | 1 | 3/4 | 1 ³ / ₄ |
| GPT-250-0 | 1/0 Str.-250 MCM | 14 Sol.-1/0 Str. CU 12 Sol.-1/0 Str. AL | 1 ⁵ / ₁₆ | 1 ¹ / ₁₆ | 2 ¹ / ₃₂ |
| GPT-250 | 1/0 Str.-250 MCM | 6 Str.-250 MCM | 1 ⁵ / ₁₆ | 1 ¹ / ₁₆ | 2 ⁹ / ₃₂ |
| GPT-350 | 4/0 Str.-350 MCM | 6 Str.-350 MCM | 1 ⁷ / ₁₆ | 1 ¹ / ₄ | 2 ⁹ / ₁₆ |
| GPT-500 | 350-500 MCM | 2 Str.-500 MCM | 1 ³ / ₄ | 1 ³ / ₈ | 3 ¹ / ₈ |
| GPT-750 | 500-750 MCM | 2 Str.-500 MCM | 2 | 1 ¹ / ₂ | 3 ³ / ₈ |

*For taps packaged with covers add suffix "-WC"

COVERS • TYPE GTC

Insulating covers for GPT connectors



Manufactured from 105°C rated material, 600 volt maximum rated.

| Catalog Number | Cover for Model Number | Color | Approximate Dimensions | | |
|----------------|------------------------|--------|---------------------------------|---------------------------------|--------------------------------|
| | | | H | W | L |
| GTC-2 | GPT-2 | Yellow | 1 ⁷ / ₆₄ | 1 ²⁹ / ₃₂ | 2 ⁷ / ₃₂ |
| GTC-1/0 | GPT-1/0 | Gray | 1 ¹ / ₄ | 2 ⁵ / ₃₂ | 2 ⁵ / ₈ |
| GTC-250 | GPT-250 | Red | 1 ⁵ / ₈ | 2 ⁷ / ₈ | 3 ⁷ / ₁₆ |
| GTC-250 | GPT-250-0 | Red | 1 ⁵ / ₈ | 2 ⁷ / ₈ | 3 ⁷ / ₁₆ |
| GTC-350 | GPT-350 | Yellow | 1 ³ / ₄ | 3 ³ / ₁₆ | 3 ³ / ₄ |
| GTC-500 | GPT-500 | Blue | 2 ³ / ₃₂ | 3 ⁵ / ₁₆ | 4 ³ / ₈ |
| GTC-750 | GPT-750 | Orange | 2 ¹¹ / ₃₂ | 3 ⁷ / ₁₆ | 4 ⁵ / ₈ |



ALUMINUM PARALLEL CLAMP (EXTRUDED) • TYPE PCAA

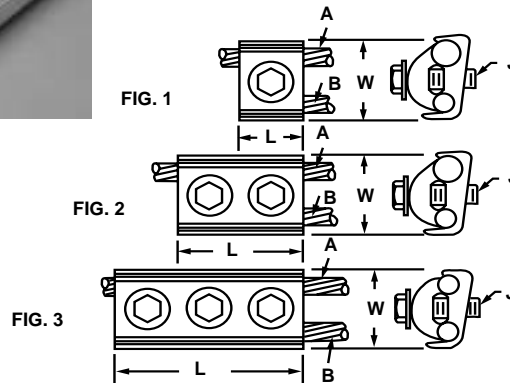
One center bolt and multiple center bolt
 Heavy duty service entrance:
 Light and heavy duty distribution armor rod clamps



High strength aluminum extruded alloy fittings assembled with steel or anodized high strength aluminum bolts, and high strength aluminum flat washers.

Serrated grooves provide increased contact and cleaning action.

Aluminum hardware provided. For steel hardware, suffix catalog number with "-SSTL." Example: PCAA-10-SSTL.



| Catalog Number | Fig. No. | Conductor Range AWG and ACSR and AR* | | | | Approximate Dimensions | | | | |
|----------------|----------|---------------------------------------------------------------|----------------------|---------------------------------------------------------------|----------------------|--------------------------------|-----|---------------------------------|----|-----|
| | | A Main | Wire Diameter Range‡ | B Tap | Wire Diameter Range‡ | L | | W | | J |
| | | | in | | in | in | mm | in | mm | in |
| PCAA-10▲ | 1 | 6 Sol.-1/0 Str. 6-1/0 ACSR | .162- .398 | 6 Sol.-1/0 Str. 6-1/0 ACSR | .162- .398 | 1 ⁵ / ₁₆ | 33 | 1 ⁷ / ₁₆ | 37 | 3/8 |
| PCAA-15▲ | 1 | 6 Sol.-2/0 Str. 6-2/0 ACSR 6 Str. AR | .162- .447 | 6 Sol.-2/0 Str. 6-2/0 ACSR 6 Str. AR | .162- .447 | 1 ³ / ₈ | 35 | 1 ¹¹ / ₁₆ | 43 | 3/8 |
| PCAA-17 | 1 | 2 Sol.-4/0 Str. 4-4/0 ACSR 6-4 Str. AR | .250- .563 | 2 Sol.-4/0 Str. 4-4/0 ACSR 6-4 Str. AR | .250- .563 | 1 ¹ / ₂ | 38 | 1 ¹⁵ / ₁₆ | 49 | 3/8 |
| PCAA-18 | 2 | 2 Sol.-4/0 Str. 4-4/0 ACSR 6-4 Str. AR | .250- .563 | 2 Sol.-4/0 Str. 4-4/0 ACSR 6-4 Str. AR | .250- .563 | 3 | 76 | 1 ¹⁵ / ₁₆ | 49 | 3/8 |
| PCAA-20▲ | 1 | 3/0 Str.-400 MCM 3/0-397.5 18/1 ACSR 4 Str.-2/0 Str. AR | .470- .781 | 6 Sol. 2/0 Str. 6-2/0 ACSR 6 Str. AR | .162- .447 | 1 ³ / ₄ | 44 | 2 ³ / ₁₆ | 56 | 1/2 |
| PCAA-23 | 2 | 3/0 Str.-400 MCM 3/0-397.5 18/1 ACSR 4 Str.-2/0 Str. AR | .470- .781 | 3/0 Str.-400 MCM 3/0-397.5 18/1 ACSR 4 Str. 2/0 Str. AR | .470- .781 | 3 ³ / ₈ | 88 | 2 ¹⁵ / ₃₂ | 63 | 1/2 |
| PCAA-25 | 3 | 3/0 Str.-400 MCM 3/0-397.5 18/1 ACSR 4 Str.-2/0 Str. AR | .470- .781 | 3/0 Str.-400 MCM 3/0-397.5 18/1 ACSR 4 Str.-2/0 Str. AR | .470- .781 | 5 ¹ / ₄ | 133 | 2 ¹⁵ / ₃₂ | 63 | 1/2 |
| PCAA-27 | 1 | 400-1000 MCM 397.5 18/1-795 ACSR 3/0 Str.-397.5 AR | .728-1.153 | 6 Sol.-2/0 Str. 6-2/0 ACSR 6 Str. AR | .162- .447 | 2 ¹ / ₄ | 57 | 2 ¹³ / ₁₆ | 71 | 5/8 |
| PCAA-30 | 2 | 400-1000 MCM 397.5 18/1-795 ACSR 3/0 Str.-397.5 AR | .728-1.153 | 3/0 Str.-400 MCM 3/0-397.5 18/1 ACSR 4 Str.-2/0 Str. AR | .470- .781 | 4 ¹ / ₂ | 137 | 3 ¹ / ₈ | 79 | 5/8 |
| PCAA-35 | 3 | 400-1000 MCM 397.5 18/1-795 ACSR 3/0 Str.-397.5 AR | .728-1.153 | 400-1000 MCM 397.5 18/1-795 ACSR 3/0 Str.-397.5 AR | .728-1.153 | 6 ³ / ₄ | 171 | 3 ¹ / ₂ | 89 | 5/8 |

*All aluminum cable rating with Preformed Armor Rods.

‡For conversion to metric range, see page 175.

Add suffix "-BF" to the catalog number for prefilling with Cual-Aid and bagging. Example: PCAA-10-BF.

▲RUS accepted with suffix BF.

INSULATION – PIERCING CONNECTORS • TYPE IPC

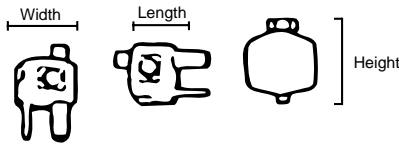
For all combinations of copper and aluminum



UL 486 B
 LISTED
 AL 9CU



- Dual rated for insulated copper and aluminum wire
- For outdoor or indoor installation on energized conductor (not under load)
- Molded of glass-filled nylon for long life
- Extra hard copper teeth for proper penetration
- Use as tap, splice, or dead end
- No need to strip insulation



| Catalog Number | Volts | Cond. Range | | Current Rating | | Dimensions (in) | | | Recomm. Torque ft. lbs. | Bolt Hd. Size | No. of Bolts |
|----------------|-------|-------------|---------|----------------|-----|-----------------|--------|--------|-------------------------|-----------------|--------------|
| | | Run | Tap | CU | AL | Width | Height | Length | | | |
| IPC-1/0-2 † | 300 | 1/0-8 | 2-8 | 130 | 100 | 1.47 | 2.31 | 1.22 | 16 | 1/2 | 1 |
| IPC-4/0-6 | 600 | 4/0-4 | 6-14 | 75 | 60 | 1.00 | 1.87 | 1.42 | 13 | 1/2 | 1 |
| IPC-4/0-2/0 | 600 | 4/0-2 | 2/0-6* | 195 | 150 | 1.88 | 2.88 | 1.66 | 25 | 1/2 | 1 |
| IPC-250-4/0 | 600 | 250-1 | 4/0-6 | 260 | 205 | 2.34 | 3.34 | 1.88 | 30 | 5/8 | 1 |
| IPC-350-4/0 † | 300 | 350-4/0 | 4/0-10 | 260 | 205 | 2.44 | 3.13 | 1.67 | 25 | 5/8 | 1 |
| IPC-350-350 † | 300 | 350-4/0 | 350-4/0 | 350 | 280 | 2.72 | 3.25 | 2.67 | 25 | 5/8 | 2 |
| | | | | | | | | | | Bolt Nut | |
| IPC-500-250 Δ | 600 | 500-350 | 250-4 | 260 | 205 | 2.90 | 3.75 | 2.42 | 60 | 5/8-11/16 | 1 |
| IPC-500-500 Δ | 600 | 500-300 | 500-250 | 430 | 350 | 3.63 | 5.00 | 3.19 | 75 | 7/8-7/8 | 1 |
| IPC-750-500 Δ | 600 | 750-500 | 500-350 | 430 | 350 | 3.63 | 5.00 | 3.19 | 75 | 7/8-7/8 | 1 |

† 480 Volts Grounded Y Systems

Δ Uses Bolt & Nut Clamping

*Maximum diameter of tap wire when measured over the insulation may not be larger than .528 in.

| Cross Reference | | | | |
|-----------------|-------------|--------|-----------|-------------|
| PUC | ILSCO | Kupler | Blackburn | Buchanan |
| IPC-1/0-2 | IPC-1/0-2 | 130001 | IPC-1102 | BTC 3/0-12 |
| IPC-4/0-6 | IPC-4/0-6 | 130021 | - | - |
| - | - | 130003 | IPC-4111 | - |
| IPC-4/0-2/0 | IPC-4/0-2/0 | - | - | BTC 4/0-6 |
| - | - | 130004 | IPC-4141 | - |
| IPC-250-4/0 | IPC-250-4/0 | 130024 | - | - |
| IPC-350-4/0 | IPC-350-4/0 | 130013 | IPC-3541 | BTC 350-10 |
| IPC-350-350 | IPC-350-350 | 130012 | IPC-3535 | BTC 350-2/0 |
| IPC-500-250 | IPC-500-250 | 130005 | IPC-5041 | BTC 500-4 |
| IPC-500-500 | IPC-500-500 | 130006 | - | - |
| IPC-750-500 | IPC-750-500 | 130007 | - | - |

BRONZE PENN-TAPS • TYPE VT

For copper conductors



Designed for heavy-duty service connections. The cap swivels to permit quick and easy installation of conductors. Retaining rubber washer eliminates loose parts. Made from high strength bronze castings—assurance against stress corrosion and season cracking. Hardware—silicon bronze bolts and lockwashers. Flat back permits use as bus tap when used with longer bolts.

| Catalog Number | Copper Conductor Range | | | |
|----------------|------------------------|----------------------|-------------------|----------------------|
| | Main | Wire Diameter Range‡ | Tap | Wire Diameter Range‡ |
| | | in | | in |
| VT-0 | 2 Str.-1/0 Str. | .292- .375 | 10 Str.-1/0 Str. | .116- .375 |
| VT-1▲ | 2 Str.-2/0 Str. | .292- .419 | 10 Str.-2/0 Str. | .116- .419 |
| VT-2▲ | 1/0 Str.-4/0 Str. | .375- .528 | 10 Str.-4/0 Str. | .116- .528 |
| VT-3▲ | 250-350 MCM | .575- .682 | 10 Str.-350 MCM | .116- .682 |
| VT-4▲ | 250-500 MCM | .575- .815 | 10 Str.-500 MCM | .116- .815 |
| VT-5 | 400-800 MCM | .728-1.031 | 3/0 Str.-800 MCM | .470-1.031 |
| VT-6 | 500-1000 MCM | .815-1.153 | 3/0 Str.-1000 MCM | .470-1.153 |

‡For conversion to metric range, see page 175.

If desired tin plated, suffix catalog number with "TN", for example: VT-1-TN.

If desired tin plated with spacer see type VTA listed below.

▲RUS accepted.

PLATED PENN-TAP • TYPE VTA

For copper conductors



Made from high strength bronze castings with high conductivity spacer bar. All parts are tin plated.

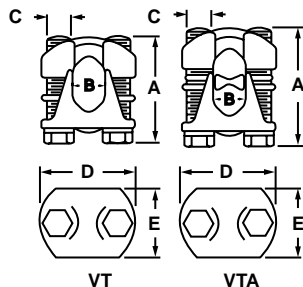
Rubber retaining washer eliminates loose parts.

Note: VTA-1 thru VTA-6 can be used on Aluminum conductors; however, they are not UL Listed for that application.

| Catalog Number | Copper Conductor Range | | | | | | |
|----------------|------------------------|----------------------|-------------------|------------------|----------|-------|----------------------|
| | Main | Wire Diameter Range‡ | Tap | Copperweld Solid | Aluminum | | Wire Diameter Range‡ |
| | | in | | | Awg. | Acsr. | In |
| VTA-0+ | 2 Str.-1/0 Str. | .292- .375 | 10 Str.-1/0 Str. | 2/0 | 1/0 Str. | 1 | .116- .375 |
| VTA-1 | 2 Str.-2/0 Str. | .292- .419 | 10 Str.-2/0 Str. | 3/0 | — | — | .116- .419 |
| VTA-2 | 1/0 Str.-4/0 Str. | .375- .528 | 10 Str.-4/0 Str. | 4/0 | — | — | .116- .528 |
| VTA-3 | 250-350 MCM | .575- .682 | 10 Str.-350 MCM | — | — | — | .116- .682 |
| VTA-4 | 250-500 MCM | .575- .815 | 10 Str.-500 MCM | — | — | — | .116- .815 |
| VTA-5 | 400-800 MCM | .728-1.031 | 3/0 Str.-800 MCM | — | — | — | .470-1.031 |
| VTA-6 | 500-1000 MCM | .815-1.153 | 3/0 Str.-1000 MCM | — | — | — | .470-1.153 |

+Meets requirements for UL 486B. Balance of items UL listed copper to copper.

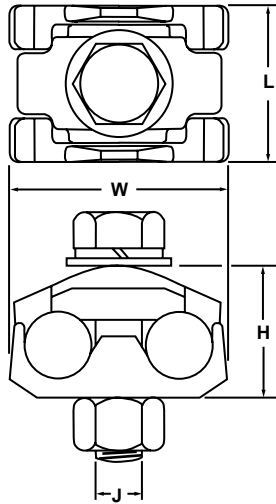
If no spacer bar is required, see type VT above.



| Catalog Number | A | | Catalog Number | A | | Approximate Dimensions | | | | | | | |
|----------------|-------------|----|----------------|-------------|----|------------------------|------|------|--------|----|--------|----|----|
| | Bolt Length | | | Bolt Length | | B | | C | | D | | E | |
| | in | mm | | in | mm | in | mm | in | mm | in | mm | in | mm |
| VT-0 | 1½ | 38 | VTA-0 | 1¼ | 32 | 13/32 | 10.3 | 5/16 | 17/16 | 37 | 15/16 | 24 | |
| VT-1 | 1½ | 38 | VTA-1 | 1½ | 38 | ½ | 12.7 | 5/16 | 19/16 | 40 | 1⅞ | 29 | |
| VT-2 | 1¾ | 44 | VTA-2 | 1¾ | 44 | 19/32 | 15.0 | 3/8 | 127/32 | 47 | 111/32 | 59 | |
| VT-3 | 2 | 51 | VTA-3 | 2 | 51 | ¾ | 19.0 | ½ | 25/16 | 59 | 15/8 | 41 | |
| VT-4 | 2¼ | 57 | VTA-4 | 2¼ | 57 | 7/8 | 22.2 | ½ | 27/16 | 62 | 111/16 | 43 | |
| VT-5 | 2½ | 64 | VTA-5 | 2½ | 64 | 11/16 | 26.9 | ½ | 211/16 | 68 | 17/8 | 48 | |
| VT-6 | 2¾ | 70 | VTA-6 | 2¾ | 70 | 1¼ | 31.7 | 5/8 | 31/16 | 78 | 2¼ | 57 | |

BRONZE UNIVERSAL PARALLEL GROOVE CLAMP • TYPE UCR

For cable range to cable range



Made from high strength bronze alloy. Furnished with silicon bronze bolts, nuts and lockwashers.

These clamps will accommodate a large range of cables or wires in either groove, and are so designed that the two halves interlock insuring a positive grip on the conductors.

| Catalog Number | Conductor Range (Either Groove) | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | |
|----------------|---------------------------------|----------------------|-------------------------------|----|--------------------------------|----|--------------------------------|----|-----|--|
| | | | L | | W | | H | | J | |
| | | | in | mm | in | mm | in | mm | in | |
| UCR-013 | 8 Sol.-2/0 Str. | .128-.419 | 1 ¹ / ₄ | 32 | 1 ³ / ₄ | 44 | 1 ¹ / ₁₆ | 27 | 3/8 | |
| UCR-030 | 1/0 Sol.-300 MCM | .325-.634 | 1 ³ / ₄ | 44 | 2 ⁵ / ₁₆ | 59 | 1 ³ / ₈ | 35 | 1/2 | |
| UCR-050 | 250-500 MCM | .575-.815 | 2 | 51 | 2 ³ / ₄ | 70 | 1 ⁵ / ₈ | 41 | 1/2 | |
| *UCR-075 | 300-750 MCM | .634-.999 | 3 ¹ / ₂ | 89 | 3 ¹ / ₈ | 79 | 2 ¹ / ₈ | 54 | 1/2 | |

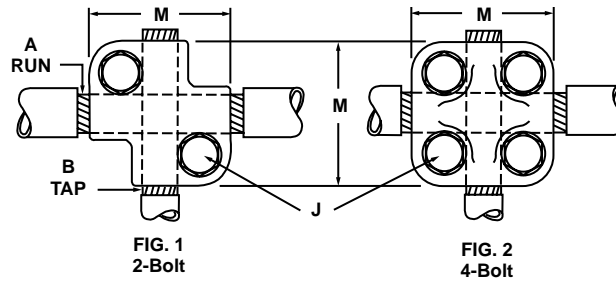
‡For conversion to metric range, see page 175.
 *Two bolts.

BRONZE VARIABLE GUTTER TAP • TYPE VX

For making parallel taps, tee connections, cross connections, or end to end connections.



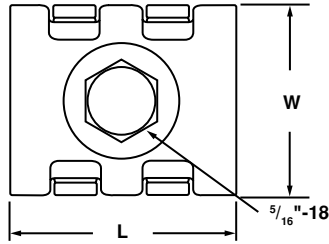
Upper and lower clamping members are made of high strength bronze alloy. Spacer is made from high conductivity copper alloy. Furnished with high strength silicon bronze bolts and lockwashers.



| Catalog Number | Fig. No. | Conductor Range A Run | Wire Diameter Range-A Run‡ | Conductor Range B Tap | Wire Diameter Range-B Tap‡ | Approximate Dimensions | | |
|----------------|----------|--------------------------|-------------------------------|--------------------------|-------------------------------|------------------------|---------|----|
| | | | in | | in | J | M | |
| | | | | | | in | in | mm |
| VX-0 | 1 | 10 Sol.-10 Str. | .102- .116 | 10 Sol.-10 Str. | .102- .116 | 5/16 | 1 5/16 | 33 |
| VX-1 | 1 | 6 Str.-2 Str. | .184- .292 | 6 Str.-2 Str. | .184- .292 | 5/16 | 1 5/16 | 33 |
| VX-3 | 1 | 1 Str.-4/0 Str. | .332- .528 | 6 Str.-4/0 Str. | .184- .528 | 3/8 | 1 3/4 | 44 |
| VX-4 | 1 | 250-500 MCM | .575- .815 | 6 Str.-2 Str. | .184- .292 | 3/8 | 2 3/16 | 56 |
| VX-5S | 1 | 250-500 MCM | .575- .815 | 1/0 Str.-300 MCM | .375- .634 | 3/8 | 2 3/16 | 56 |
| VX-6 | 1 | 250-500 MCM | .575- .815 | 1 Str.-500 MCM | .332- .815 | 1/2 | 2 5/8 | 67 |
| VX-7 | 1 | 500-1000 MCM | .815-1.153 | 6 Str.-2/0 Str. | .184- .419 | 3/8 | 2 5/8 | 67 |
| VX-8 | 1 | 500-1000 MCM | .815-1.153 | 1 Str.-4/0 Str. | .332- .528 | 3/8 | 2 5/8 | 67 |
| VX-8S | 1 | 500-1000 MCM | .815-1.153 | 1/0 Str.-300 MCM | .375- .634 | 3/8 | 2 5/8 | 67 |
| VX-10 | 2 | 500-1000 MCM | .815-1.153 | 250-1000 MCM | .575-1.153 | 3/8 | 2 9/16 | 65 |
| VX-10S | 2 | 750-1000 MCM | .999-1.153 | 750-1000 MCM | .999-1.153 | 1/2 | 3 | 76 |
| VX-11 | 2 | 750-1500 MCM | .999-1.412 | 500-1000 MCM | .815-1.153 | 3/8 | 2 15/16 | 75 |
| VX-12 | 2 | 750-1500 MCM | .999-1.412 | 750-1500 MCM | .999-1.412 | 1/2 | 3 1/4 | 82 |
| VX-13 | 2 | 1000-2000 MCM | 1.153-1.631 | 1000-2000 MCM | 1.153-1.631 | 1/2 | 3 7/16 | 87 |

‡For conversion to metric range, see page 175.

COPPER JUMPER CLAMP • TYPE JC



CU
 90°C
 UL467
 GROUNDING & BONDING

Jumper clamp cast from high copper content alloy.

| Catalog Number | Finish of Grooves | Bolt | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | |
|----------------|---------------------|----------------|----------------------|----------------------|------------------------|----|--------|----|
| | | | | | L | | W | |
| | | | | in | mm | in | mm | |
| JC-1-AC▲ † | 1-Groove Tin Plated | Steel | 6 Sol.-1/0 Str. | .162-.373 | 1 1/8 | 29 | 1 5/16 | 33 |
| JC-UL-AC | 1-Groove Bronze | Silicon Bronze | 6 Sol. 1/4, 5/16 Guy | .162-.312 | | | | |
| JC-2-AA † | Tin Plated | Steel | 6 Sol.-1/0 Str. | .162-.373 | 1 1/8 | 29 | 1 5/16 | 33 |
| JC-UL | | Silicon Bronze | 6 Sol.-1/4, 5/16 Guy | .162-.312 | | | | |
| JC-3-CC † | Bronze | Steel | 6 Sol.-1/0 Str. | .162-.373 | 1 1/8 | 29 | 1 5/16 | 33 |
| JC-UL-CC | | Silicon Bronze | 6 Sol.-1/4, 5/16 Guy | .162-.312 | | | | |

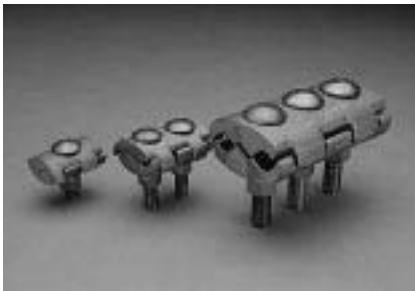
‡For conversion to metric range, see page 175.

▲RUS accepted.

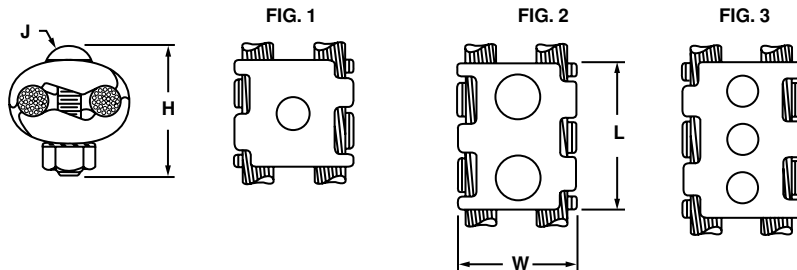
† Not UL Listed.

UNIVERSAL PARALLEL CLAMP • TYPE UPC

For copper cable or wire



These clamps are designed to accommodate a large range of wires or cables in either groove. Made from high strength bronze alloy. Furnished with silicon bronze carriage bolts, nuts and lockwashers for convenience of single wrench installation.



| Catalog Number | Conductor Range (Either Groove) | Wire Diameter Range‡ | Fig. No. | Approximate Dimensions | | | | | | | |
|----------------|---------------------------------|----------------------|----------|------------------------|----|-----|-------|-----|-------|----|--|
| | | | | H | | J | L | | W | | |
| | | in | | in | mm | in | in | mm | in | mm | |
| UPC-1 | 6 Sol.-1/0 Str. | .162-.375 | 1 | 1 3/4 | 44 | 3/8 | 1 3/4 | 44 | 1 1/2 | 38 | |
| UPC-2 | 4 Sol.-4/0 Str. | .204-.528 | 2 | 2 | 51 | 3/8 | 2 1/8 | 54 | 1 3/4 | 44 | |
| UPC-3 | 2 Sol.-300 MCM | .258-.634 | 2 | 2 1/4 | 57 | 3/8 | 2 3/8 | 60 | 2 | 51 | |
| UPC-4 | 4/0 Str.-500 MCM | .528-.815 | 3 | 3 1/4 | 70 | 1/2 | 4 1/4 | 108 | 2 1/2 | 64 | |
| UPC-5 | 300-800 MCM | .634-1.031 | 3 | 3 1/4 | 82 | 1/2 | 4 1/4 | 108 | 3 | 76 | |
| UPC-6 | 500-1000 MCM | .815-1.153 | 3 | 3 1/2 | 89 | 1/2 | 4 1/4 | 108 | 3 1/2 | 89 | |

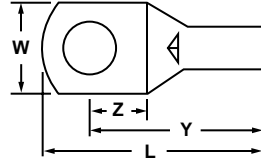
These clamps can also be supplied for aluminum conductors. The clamps are tin plated for aluminum. Add "TN" to catalog number for tin plating.

For example: UPC-1-TN. See Type PCAA on page 21 for aluminum parallel clamps.

‡For conversion to metric range, see page 175.

COPPER PENN-CRIMPS® • TYPE BLY

Heavy Wall Seamless Tubing #10 AWG - 4/0 AWG



Seamless, one piece, pure electrolytic copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. Inspection window insures full insertion. Features rounded tongue with full washer clearance and standardized crimp length. Can be installed with existing crimping tools. Catalog number and conductor size marked on every piece to insure positive identification.

Non-Insulated Compression Terminal

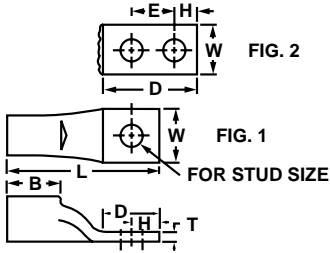
| Ring Tongue - Seamless | | | Installation Tooling | | | | | | | | | | | |
|------------------------|-----------------------------|-----------|----------------------|--------|--------|--------|----------------------|-----------|-----------|-----------|--------------------------------------|-------------------|--------------|----------|
| Catalog Number | Copper Cond. Range | Stud Size | Dimensions (in) | | | | Mechanical | | Hydraulic | | | Wire Strip Length | T & B | |
| | | | W | L Max. | Y Max. | Z Min. | Burndy | PUC | PUC | Die Index | Burndy | | Tool 13642 | |
| | | | | | | | | | TPU-12B | | Y35+ Y39 | | Die Cat. No. | MS90485- |
| BLY10-T7† | 10 Str. | 4-6 | .30 | .96 | .73 | .20 | Y8MRBI | | | | | 7/16" | | |
| BLY10-L36† | 12 Sol. | 8-10 | .30 | .80 | .62 | .18 | MR8G98 | | | | | | | |
| BLY8C-L14 | 8 Aircraft AN 8 8 AWG | 6-8 | .41 | 1.15 | .94 | .28 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 38 | UV8L Nest Y34PL Indentor (1) Crimp | 1/2" | 11781M | - 8 |
| BLY8C-L | | 8-10 | .41 | 1.15 | .94 | .28 | | | | | | | | |
| BLY8C-L1 | | 1/4 | .46 | 1.22 | .99 | .32 | | | | | | | | |
| BLY8C-L2 | | 5/16 | .57 | 1.30 | 1.01 | .34 | | | | | | | | |
| BLY8C-L3 | | 3/8 | .57 | 1.30 | 1.01 | .34 | | | | | | | | |
| BLY8C-L4 | 1/2 | .73 | 1.52 | 1.14 | .48 | | | | | | | | | |
| BLY6C-L1 | 6 Aircraft AN 6 6 AWG | 8-10 | .48 | 1.31 | 1.06 | .29 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 39 | UV6L Nest Y34PLA Indentor (1) Crimp | 1/2" | 11782M | - 6 |
| BLY6C-L | | 1/4 | .48 | 1.31 | 1.06 | .29 | | | | | | | | |
| BLY6C-L4 | | 5/16 | .60 | 1.43 | 1.13 | .35 | | | | | | | | |
| BLY6C-L2 | | 3/8 | .60 | 1.43 | 1.13 | .35 | | | | | | | | |
| BLY6C-L10 | | 1/2 | .73 | 1.64 | 1.26 | .49 | | | | | | | | |
| BLY4C-L3 | 4 Aircraft AN 4 4 AWG | 8-10 | .55 | 1.37 | 1.11 | .28 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 40 | UV4L Nest Y34PLA Indentor (1) Crimp | 1/2" | 11783M | - 4 |
| BLY4C-L | | 1/4 | .55 | 1.37 | 1.11 | .28 | | | | | | | | |
| BLY4C-L4 | | 5/16 | .63 | 1.48 | 1.17 | .33 | | | | | | | | |
| BLY4C-L2 | | 3/8 | .63 | 1.48 | 1.17 | .33 | | | | | | | | |
| BLY4C-L5 | | 1/2 | .73 | 1.68 | 1.30 | .47 | | | | | | | | |
| BLY2C-L3 | 2 Aircraft AN 2 2 AWG | 8-10 | .69 | 1.72 | 1.37 | .35 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 41 | UV2L Nest Y34PLA Indentor (1) Crimp | 5/8" | 11784M | - 2 |
| BLY2C-L1 | | 1/4 | .69 | 1.72 | 1.37 | .35 | | | | | | | | |
| BLY2C-L2 | | 5/16 | .69 | 1.72 | 1.37 | .35 | | | | | | | | |
| BLY2C-L | | 3/8 | .69 | 1.72 | 1.37 | .35 | | | | | | | | |
| BLY2C-L4 | | 1/2 | .77 | 1.89 | 1.49 | .46 | | | | | | | | |
| BLY1C-L6 | 1 Aircraft AN 1 1 AWG | 8-10 | .76 | 1.67 | 1.32 | .25 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 42 | UV1CL Nest Y34PLA Indentor (1) Crimp | 5/8" | 11785M | - 1 |
| BLY1C-L1 | | 1/4 | .76 | 1.84 | 1.45 | .38 | | | | | | | | |
| BLY1C-L2 | | 5/16 | .76 | 1.84 | 1.45 | .38 | | | | | | | | |
| BLY1C-L | | 3/8 | .76 | 1.84 | 1.45 | .38 | | | | | | | | |
| BLY1C-L3 | | 1/2 | .86 | 1.97 | 1.54 | .46 | | | | | | | | |
| BLY25-L1 | 1/0 Aircraft AN 1/0 1/0 AWG | 1/4 | .83 | 2.01 | 1.61 | .43 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 43 | UV25L Nest Y34PA Indentor (1) Crimp | 11/16" | 11786M | - 01 |
| BLY25-L2 | | 5/16 | .83 | 2.01 | 1.61 | .43 | | | | | | | | |
| BLY25-L | | 3/8 | .83 | 2.01 | 1.61 | .43 | | | | | | | | |
| BLY25-L3 | | 1/2 | .88 | 2.09 | 1.64 | .46 | | | | | | | | |
| BLY25-L4 | | 5/8 | .88 | 2.31 | 1.80 | .62 | | | | | | | | |
| BLY26-L1 | 2/0 Aircraft AN 2/0 2/0 AWG | 1/4 | .93 | 2.32 | 1.85 | .48 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 43 | UV25L Nest Y34PA Indentor (1) Crimp | 13/16" | 11787M | - 02 |
| BLY26-L2 | | 5/16 | .93 | 2.32 | 1.85 | .48 | | | | | | | | |
| BLY26-L | | 3/8 | .93 | 2.32 | 1.85 | .48 | | | | | | | | |
| BLY26-L3 | | 1/2 | .93 | 2.32 | 1.85 | .48 | | | | | | | | |
| BLY26-L12 | | 5/8 | .93 | 2.52 | 1.99 | .62 | | | | | | | | |
| BLY27-L | 3/0 Aircraft AN 3/0 3/0 AWG | 3/8 | 1.03 | 2.45 | 1.93 | .52 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 43 | UV25L Nest Y34PA Indentor (1) Crimp | 13/16" | 11788M | - 03 |
| BLY27-L1 | | 1/2 | 1.03 | 2.45 | 1.93 | .52 | | | | | | | | |
| BLY27-L15 | | 5/8 | 1.03 | 2.60 | 2.04 | .62 | | | | | | | | |
| BLY28-L | 4/0 Aircraft AN 4/0 4/0 AWG | 3/8 | 1.12 | 2.72 | 2.16 | .60 | Non-Ratchet; MY29-11 | TDM-250XF | TPU-12B | 43 | UV25L Nest Y34PA Indentor (1) Crimp | 7/8" | 11789M | - 04 |
| BLY28-L12 | | 1/2 | 1.12 | 2.72 | 2.16 | .60 | | | | | | | | |
| BLY28-L13 | | 5/8 | 1.12 | 2.72 | 2.16 | .60 | | | | | | | | |
| BLY28-L14 | | 3/4 | 1.23 | 2.95 | 2.33 | .78 | | | | | | | | |

†Not UL or CSA listed

COPPER PENN-CRIMPS® • TYPE BLU



Crimp lugs with inspection window for #8 stranded thru 2000 MCM



Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. Inspection window insures full insertion.

Catalog number and conductor size marked on every piece insures positive identification.

Can be installed with existing crimping tools. Color coding conforms to industry requirements to insure proper conductor/die selection and to provide for faster installation.

BLU LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 35KV.

45° and 90° Variations are UL Listed and CSA non stock items. Contact factory for price and availability.

| Catalog Number | Copper Cond. Range† | Color Code | Wire Dia. (in) ‡ | Stud Size | Fig. No. | Approximate Dimensions (in inches) | | | | | | | Crimping Tool Reference | | | |
|----------------|---------------------|---------------------------------|------------------|---------------------------------|---------------------------------|------------------------------------|---------------------------------|--------------------------------|-------|-------|---------------------------------|---------------------------------|-------------------------|----------------|----------------|------------------------|
| | | | | | | L | B | D | E | H | T | W | Burndy Index No. | Penn-Union | PUC Dies | TDY-1 Pressure Setting |
| BLU-8S14 | 8 Str. | Red | .146 | #10 | 1 | 1 ⁵ / ₃₂ | | 1/2 | — | 1/4 | | 13 ³ / ₃₂ | B-6 | 21 | T-6* | |
| BLU-8D | | | | 2 | 1 ²³ / ₃₂ | | 1 ¹ / ₁₆ | 5/8 | 7/32 | | 5/64 | 13 ³ / ₃₂ | | | | |
| BLU-8S15 | | | | 1 | 1 ⁷ / ₃₂ | 13 ³ / ₃₂ | 9/16 | — | 9/32 | 5/64 | 13 ³ / ₃₂ | | | | | |
| BLU-8S16 | | | | 1 | 1 ⁵ / ₁₆ | | 2 ¹ / ₃₂ | — | 9/32 | | 9/16 | | | | | |
| BLU-8S17 | | | | 1 | 1 ¹¹ / ₃₂ | | 1 ¹ / ₁₆ | — | 19/64 | | 9/16 | | | | | |
| BLU-8S18 | 1 | 1 ³³ / ₆₄ | | 1 ³ / ₈ | — | 3/8 | | 2 ¹ / ₅ | | | | | | | | |
| BLU-6S | 6 Str. | Blue | .184 | #10 | 1 | 1 ⁹ / ₁₆ | | 17/32 | — | 7/32 | | 1 ¹ / ₂ | B-7 | 24 | T-7* or T-374* | |
| BLU-6S1 | | | | 1 | 1 ²³ / ₃₂ | | 1 ¹ / ₁₆ | — | 5/16 | | 7/16 | | | | | |
| BLU-6D | | | | 2 | 2 ⁷ / ₃₂ | 13 ³ / ₁₆ | 1 ³ / ₁₆ | 5/8 | 1/4 | 3/32 | 1 ³ / ₈ | | | | | |
| BLU-6S2 | | | | 1 | 1 ²⁵ / ₃₂ | | 3/4 | — | 11/16 | | 1/2 | | | | | |
| BLU-6S8 | 1 | 1 ²⁷ / ₃₂ | | 13 ³ / ₁₆ | — | 3/8 | | 19/32 | | | | | | | | |
| BLU-5S | 5 Str. | — | .206 | #10 | 1 | 1 ³⁹ / ₆₄ | | 9/16 | — | 1/4 | | 7/16 | B-21 | — | T-21* | |
| BLU-5S1 | | | | 1 | 1 ⁴⁷ / ₆₄ | | 11/16 | 5/16 | | 7/16 | | | | | | |
| BLU-5D | | | | 2 | 2 ¹⁹ / ₆₄ | 13 ³ / ₁₆ | 1 ³ / ₁₆ | 1/4 | 3/32 | 7/16 | | | | | | |
| BLU-5S2 | | | | 1 | 1 ⁴⁹ / ₆₄ | | 2 ² / ₃₂ | — | 11/32 | 9/16 | | | | | | |
| BLU-5S3 | 1 | 1 ⁵⁹ / ₆₄ | | 13 ³ / ₃₂ | — | 13/32 | 19/32 | | | | | | | | | |
| BLU-4S | 4 Str. | Gray | .232 | #10 | 1 | 1 ³⁹ / ₆₄ | | — | 1/4 | | 1/2 | B-8 | 29 | T-8* or T-346* | | |
| BLU-4S1 | | | | 1 | 1 ⁴⁷ / ₆₄ | | 1 ¹ / ₁₆ | — | 5/16 | | 1/2 | | | | | |
| BLU-4D | | | | 2 | 2 ¹⁹ / ₆₄ | 13 ³ / ₃₂ | 1 ³ / ₈ | 5/8 | 1/4 | 3/32 | 1/2 | | | | | |
| BLU-4S10 | | | | 1 | 1 ⁴⁵ / ₆₄ | | 2 ³ / ₃₂ | — | 11/32 | 19/32 | | | | | | |
| BLU-4S2 | 1 | 1 ⁴⁹ / ₆₄ | | 7/8 | — | 13/32 | 19/32 | | | | | | | | | |
| BLU-3S | 3 Str. | White | .260 | #10 | 1 | 1 ⁴³ / ₆₄ | | 9/16 | — | 1/4 | | 17/32 | B-9 | — | T-9* | |
| BLU-3S1 | | | | 1 | 1 ⁵¹ / ₆₄ | | 11/16 | — | 5/16 | | 17/32 | | | | | |
| BLU-3D | | | | 2 | 2 ¹⁹ / ₆₄ | 7/8 | 1 ³ / ₁₆ | 5/8 | 1/4 | 7/64 | 17/32 | | | | | |
| BLU-3S2 | | | | 1 | 1 ⁵⁵ / ₆₄ | | 3/4 | — | 11/32 | 9/16 | | | | | | |
| BLU-3S3 | 1 | 1 ⁶³ / ₆₄ | | 7/8 | — | 13/32 | 19/32 | | | | | | | | | |
| BLU-2S15 | 2 Str. | Brown | .292 | #10 | 1 | 1 ⁴⁷ / ₆₄ | | 2 ¹ / ₃₂ | — | 5/16 | | 19/32 | B-10 | 33 | T-10 | |
| BLU-2S | | | | 1 | 1 ⁵¹ / ₆₄ | | 11/16 | — | 5/16 | | 7/64 | 19/32 | | | | |
| BLU-2D | | | | 2 | 2 ¹⁹ / ₆₄ | | 1 ³ / ₁₆ | 5/8 | 1/4 | 5/64 | 19/32 | | | | | |
| BLU-2D2 | | | | 2 | 3 ⁶³ / ₆₄ | | 2 ⁷ / ₈ | 1 ³ / ₄ | 17/32 | 13/16 | | | | | | |
| BLU-2S1 | | | | 1 | 1 ⁵⁵ / ₆₄ | 7/8 | 3/4 | — | 11/32 | 19/32 | | | | | | |
| BLU-2S2 | | | | 1 | 1 ⁶³ / ₆₄ | | 7/8 | — | 13/32 | 7/64 | 5/8 | | | | | |
| BLU-2S10 | 1 | 2 ¹⁵ / ₆₄ | | 1 ¹ / ₈ | — | 9/16 | 13/16 | | | | | | | | | |
| BLU-1S9 | 1 Str. | Green | .332 | 1/4 | 1 | 1 ²⁷ / ₆₄ | | 5/8 | 9/16 | — | 1/4 | | 43/64 | B-11 | 37 | T-11/375 |
| BLU-1D2 | | | | 2 | 2 ²³ / ₆₄ | 15/16 | 1 ³ / ₁₆ | 5/8 | 1/4 | | 43/64 | | | | | |
| BLU-1S | | | | 1 | 1 ⁵⁵ / ₆₄ | 7/8 | 3/4 | — | 11/32 | 7/64 | 43/64 | | | | | |
| BLU-1D4 | | | | 2 | 2 ⁵¹ / ₆₄ | 15/16 | 1 ⁵ / ₈ | 7/8 | 11/32 | | 43/64 | | | | | |
| BLU-1S1 | | | | 1 | 2 ³ / ₆₄ | 15/16 | 7/8 | — | 7/16 | | 43/64 | | | | | |
| BLU-1S4 | | | | 1 | 2 ¹⁹ / ₆₄ | 15/16 | 1 ¹ / ₈ | — | 9/16 | | 3/4 | | | | | |
| BLU-1/0S19 | 1/0 Str. | Pink | .375 | 1/4 | 1 | 1 ¹⁵ / ₁₆ | | 3/4 | — | 11/32 | | 3/4 | B-12 | 42 | T-12/348 | |
| BLU-1/0S | | | | 1 | 2 ¹ / ₁₆ | | 3/4 | — | 11/32 | | 3/4 | | | | | |
| BLU-1/0D | | | | 2 | 2 ¹³ / ₁₆ | | 1 ⁵ / ₈ | 7/8 | 11/32 | | 3/4 | | | | | |
| BLU-1/0S1 | | | | 1 | 2 ¹ / ₁₆ | 7/8 | 7/8 | — | 13/32 | 1/8 | 3/4 | | | | | |
| BLU-1/0D4 | | | | 2 | 3 | | 1 ¹³ / ₁₆ | 1 | 3/8 | | 3/4 | | | | | |
| BLU-1/0S20 | | | | 1 | 2 ¹ / ₄ | | 1 ¹ / ₁₆ | — | 1/2 | | 13/16 | | | | | |
| BLU-1/0D2 | 2 | 4 ¹ / ₁₆ | | 2 ⁷ / ₈ | 1 ³ / ₄ | 17/32 | | 13/16 | | | | | | | | |

†For conversion to metric range, see page 175.

*Consult factory for availability of dies. Not available at this time. †Concentric, compressed and compact stranding

COPPER PENN-CRIMPS® • TYPE BLU

Continued from preceding page

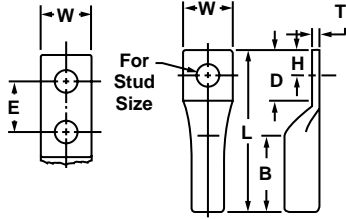


| Catalog Number | Copper Cond. Range† | Color Code | Wire Dia. (in) ‡ | Stud Size | Fig. No. | Approximate Dimensions (inches) | | | | | | | Crimping Tool Reference | | | | | |
|----------------|---------------------|------------|------------------|-----------|----------|---------------------------------|--------|---------|-------|-------|--------|---------|-------------------------|-------------|-----------------|---------------------------------|-----|---------|
| | | | | | | L | B | D | E | H | T | W | Alt. Tooling | | Penn-Union | | | |
| | | | | | | | | | | | | | Burndy Index No. | T&B Die | PUC Dies | Pressure Setting TDY-1 TDY-U | | |
| BLU-2/0S20 | 2/0 Str. | Black | .419 | 1/4 | 1 | 2 1/16 | | 13/16 | — | 11/32 | | | B-13 | 45 | T-13 | 2 | X | |
| BLU-2/0S21 | | | | 5/16 | 1 | 2 1/16 | | 13/16 | — | 11/32 | | | | | | | | |
| BLU-2/0D3 | | | | 5/16 | 2 | 2 7/8 | | 1 5/8 | 7/8 | — | 11/32 | | | | | | | |
| BLU-2/0S | | | | 3/8 | 1 | 2 1/8 | 15/16 | 7/8 | — | — | 13/32 | 1/8 | | | | | | 13/16 |
| BLU-2/0D4 | | | | 3/8 | 2 | 3 1/16 | | 1 13/16 | 1 | — | 3/8 | | | | | | | |
| BLU-2/0S4 | | | | 1/2 | 1 | 2 3/8 | | 1 1/8 | — | — | 9/16 | | | | | | | |
| BLU-2/0D | 1/2 | 2 | 4 1/8 | | 2 7/8 | 1 3/4 | — | 17/32 | | | | | | | | | | |
| BLU-3/0S14 | 3/0 Str. | Orange | .470 | 1/4 | 1 | 1 15/16 | 3/4 | 13/16 | — | 11/32 | | | B-14 | — | T-14 | — | — | |
| BLU-3/0S15 | | | | 5/16 | 1 | 1 15/16 | 3/4 | 13/16 | — | 11/32 | | | | | | | | |
| BLU-3/0D11 | | | | 5/16 | 2 | 3 | 1 | 1 5/8 | 7/8 | — | 11/32 | | | | | | | |
| BLU-3/0S | | | | 3/8 | 1 | 2 1/4 | 1 | 7/8 | — | — | 13/32 | 1/8 | | | | | | 29/32 |
| BLU-3/0D3 | | | | 3/8 | 2 | 3 3/16 | 1 | 1 13/16 | 1 | — | 3/8 | | | | | | | |
| BLU-3/0S1 | | | | 1/2 | 1 | 2 1/2 | 1 | 1 1/8 | — | — | 17/32 | | | | | | | |
| BLU-3/0D | 1/2 | 2 | 4 1/4 | 1 | 2 7/8 | 1 3/4 | — | 17/32 | | | | | | | | | | |
| BLU-4/0S19 | 4/0 Str. | Purple | .528 | 1/4 | 1 | 2 7/32 | | 25/32 | — | 11/32 | | | B-15 | 54 | T-15 | 5 | 5 | |
| BLU-4/0S25 | | | | 5/16 | 1 | 2 7/32 | | 25/32 | — | 11/32 | | | | | | | | |
| BLU-4/0S | | | | 3/8 | 1 | 2 5/16 | 1 | 7/8 | — | — | 13/32 | 9/64 | | | | | | 1 |
| BLU-4/0D10 | | | | 3/8 | 2 | 3 1/4 | | 1 13/16 | 1 | — | 3/8 | | | | | | | |
| BLU-4/0S1 | | | | 1/2 | 1 | 2 9/16 | | 1 1/8 | — | — | 9/16 | | | | | | | |
| BLU-4/0D | | | | 1/2 | 2 | 4 5/16 | | 2 7/8 | 1 3/4 | — | 17/32 | | | | | | | |
| BLU-025S4 | 250 MCM | Yellow | .575 | 1/4 | 1 | 2 11/32 | | 25/32 | — | 11/32 | | | B-16 | 62 | T-16 | — | — | |
| BLU-025S5 | | | | 5/16 | 1 | 2 11/32 | | 25/32 | — | 11/32 | | | | | | | | |
| BLU-025S2 | | | | 3/8 | 1 | 2 9/16 | 1 1/16 | 1 | — | — | 13/32 | | | | | | | |
| BLU-025D3 | | | | 3/8 | 2 | 3 3/8 | | 1 13/16 | 1 | — | — | | | | | | | |
| BLU-025S | | | | 1/2 | 1 | 2 11/16 | | 1 1/8 | — | — | 7/32 | | | | | | | |
| BLU-025D | | | | 1/2 | 2 | 4 7/16 | | 2 7/8 | 1 3/4 | — | 17/32 | | | | | | | |
| BLU-030S6 | 300 MCM | White | .634 | 5/16 | 1 | 2 13/32 | | 25/32 | — | 11/32 | | | B-17 | 66H or 66 | T-17* | — | — | |
| BLU-030S7 | | | | 3/8 | 1 | 2 5/8 | | 1 | — | — | 3/8 | 5/32 | | | | | | 1 3/16 |
| BLU-030D9 | | | | 3/8 | 2 | 3 7/16 | 1 1/16 | 1 13/16 | — | — | — | | | | | | | |
| BLU-030S | | | | 1/2 | 1 | 2 3/4 | | 1 1/8 | — | — | 17/32 | | | | | | | |
| BLU-030D | | | | 1/2 | 2 | 4 1/2 | | 2 7/8 | 1 3/4 | — | 17/32 | | | | | | | |
| BLU-030S8 | | | | 5/8 | 1 | 3 5/16 | | 1 1/16 | — | — | 13/16 | | | | | | | |
| BLU-035S1 | 350 MCM | Red | .682 | 3/8 | 1 | 2 5/8 | | — | — | 7/16 | | | B-18 | 71H or 71 | T-18/324 | 7 | 7 | |
| BLU-035D13 | | | | 3/8 | 2 | 2 9/16 | | 1 13/16 | 1 | — | 3/8 | | | | | | | |
| BLU-035S | | | | 1/2 | 1 | 2 1/2 | | 1 5/32 | — | — | 17/32 | 11/64 | | | | | | 1 9/32 |
| BLU-035D | | | | 1/2 | 2 | 4 1/4 | | 2 7/8 | 1 3/4 | — | 17/32 | | | | | | | |
| BLU-035S3 | | | | 5/8 | 1 | 3 5/32 | | 1 13/32 | — | — | 21/32 | | | | | | | |
| BLU-040D7 | | | | 3/8 | 2 | 3 1/16 | | 1 13/16 | 1 | — | 3/8 | | | | | | | |
| BLU-040S4 | 400 MCM | Blue | .728 | 1/2 | 1 | 3 1/16 | 1 3/16 | 1 3/16 | — | 9/16 | 3/16 | 1 13/32 | B-19 | 76H or 76 | T-19* or T-470* | — | — | |
| BLU-040D | | | | 1/2 | 2 | 4 3/4 | | 2 7/8 | 1 3/4 | — | 17/32 | | | | | | | |
| BLU-040S | | | | 1/2 | 1 | 3 5/16 | | 1 7/16 | — | — | 21/32 | | | | | | | |
| BLU-045S1 | 450 MCM | Blue | .782 | 1/2 | 1 | 3 1/16 | | 1 3/16 | — | 9/16 | | | — | 76H or 76 | — | — | — | |
| BLU-045D | | | | 1/2 | 2 | 4 3/4 | 1 3/16 | 2 7/8 | 1 3/4 | — | 17/32 | 7/32 | | | | | | 1 29/64 |
| BLU-045S | | | | 3/8 | 1 | 3 5/16 | | 1 7/16 | — | — | 21/32 | | | | | | | |
| BLU-050D13 | 500 MCM | — | .815 | 3/8 | 2 | 3 15/16 | | 1 13/16 | 1 | 7/16 | | | B-20 | 87 | T-20/299 | — | — | |
| BLU-050S2 | | | | 1/2 | 1 | 3 1/4 | 1 3/8 | 1 1/8 | — | — | 9/16 | 7/32 | | | | | | 1 17/32 |
| BLU-050D | | | | 1/2 | 2 | 5 | | 2 7/8 | 1 3/4 | — | 17/32 | | | | | | | |
| BLU-050S | | | | 5/8 | 1 | 3 9/16 | | 1 7/16 | — | — | 27/32 | | | | | | | |
| BLU-060D | 600 MCM | Green | .893 | 1/2 | 2 | 5 3/32 | | 2 7/8 | 1 3/4 | 17/32 | 17/64 | 1 23/32 | B-22 | 94H or 94 | T-22/472 | 9 | 9 | |
| BLU-060S | | | | 5/8 | 1 | 3 31/32 | 1 3/8 | 1 3/4 | — | — | 7/8 | | | | | | | |
| BLU-060D | | | | 1/2 | 1 | 3 31/32 | | 1 3/4 | — | — | 7/8 | | | | | | | |
| BLU-065S | 650 MCM | Pink | .930 | 1/2 | 2 | 5 3/32 | | 2 7/8 | 1 3/4 | 17/32 | 17/64 | 1 25/32 | B-300 | 99 | — | — | — | |
| BLU-065S | | | | 5/8 | 1 | 3 31/32 | 1 3/8 | 1 3/4 | — | — | 7/8 | | | | | | | |
| BLU-065S | | | | 1/2 | 1 | 3 31/32 | | 1 3/4 | — | — | 7/8 | | | | | | | |
| BLU-070S | 750 MCM | Black | .999 | 1/2 | 2 | 5 7/16 | | 2 7/8 | 1 3/4 | 17/32 | 17/64 | 1 29/32 | B-24 | 106H or 106 | — | — | — | |
| BLU-070S | | | | 5/8 | 1 | 4 | 1 5/8 | 2 7/16 | — | — | 21/32 | | | | | | | |
| BLU-080D | 800 MCM | — | 1.031 | 1/2 | 2 | 5 17/32 | | 2 7/8 | 1 3/4 | 17/32 | 19/64 | 1 31/32 | B-25 | 107H or 107 | — | — | — | |
| BLU-080S | | | | 5/8 | 1 | 4 17/32 | 1 5/8 | 1 7/8 | — | — | 15/16 | | | | | | | |
| BLU-100D | 1000 MCM | White | 1.153 | 1/2 | 2 | 5 7/8 | | 2 7/8 | 1 3/4 | 17/32 | | | B-27 | 125 | — | 9** | 9** | |
| BLU-100S | | | | 5/8 | 1 | 4 7/8 | 1 7/8 | 1 7/8 | — | — | 15/16 | 21/64 | | | | | | 2 3/16 |
| BLU-100S4 | | | | 3/4 | 1 | 4 7/8 | | 1 7/8 | — | — | 15/16 | | | | | | | |
| BLU-150D | 1500 MCM | — | 1.412 | 1/2 | 2 | 6 3/32 | | 2 7/8 | 1 3/4 | 17/32 | 3/8 | 2 11/16 | B-31 | — | — | — | — | |
| BLU-150S | | | | 3/4 | 1 | 5 15/32 | 2 | 2 1/4 | — | — | 1 1/8 | | | | | | | |
| BLU-200D | 2000 MCM | — | 1.632 | 1/2 | 2 | 6 3/8 | | 2 7/8 | 1 3/4 | 17/32 | 15/32 | 3 1/16 | B-34 | — | — | — | — | |
| BLU-200S | | | | 3/4 | 1 | 5 15/16 | | 2 3/8 | — | — | 1 3/16 | | | | | | | |

*Consult factory for availability of dies. Not available at this time. **With CUAD-1000.
†For conversion to metric range, see page 175. ‡Concentric, compressed and compact stranding.

COPPER PENN-CRIMPS® • TYPE BBLU

Long barrel lugs for #6 stranded thru 2000 MCM



45° and 90° Variations are UL Listed and CSA non stock items.
Contact factory for price and availability.

Double length barrel permits two crimps in the larger sizes for additional assurance on heavy duty loads. Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. End of cable is protected from environmental conditions by completely closed transition.

Catalog number and conductor sizes marked on every piece insures positive identification.

Can be installed with existing crimping tools. Color coding conforms to industry requirements to insure proper connector/die selection and to provide for fast identification.

BBLU LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 35KV.

1 HOLE LUGS

| Catalog Number | Copper Cond. Range† | Color Code | Wire Dia. (in) ± | Stud Size | Approximate Dimensions (in inches) | | | | | | | Crimping Tool Reference | | | | | |
|----------------|---------------------|------------|------------------|-----------|------------------------------------|---------|---------|---|--------|---|-------------|-------------------------|----------|------------------|----------------|-------|-------|
| | | | | | B | W | D | E | H | L | Barrel No.■ | Alternative Tooling | | Penn-Union | | | |
| | | | | | | | | | | | | T&B Die | PUC Dies | Pressure Setting | | | |
| BBLU-6S | 6 Str. | Blue | .184 | 1/4 | 1 3/32 | 1 3/32 | 1 1/16 | — | 5/16 | — | 1 1/8 | — | B-7 | 24 | T-7*/374 | TDY-1 | TDY-U |
| BBLU-6S1 | 6 Str. | Blue | .184 | 1/2 | 1 1/8 | 1 3/16 | 1 1/4 | — | 5/8 | — | 1 3/8 | — | B-7 | 24 | T-7*/374 | | |
| BBLU-4S | 4 Str. | Gray | .232 | 1/4 | 1 3/32 | 1/2 | 1 1/16 | — | 5/16 | — | 2 1/8 | .09 | B-8 | 29 | T-8*/346 | 2 | |
| BBLU-4S1 | 4 Str. | Gray | .232 | 3/8 | 1 1/8 | 1 3/16 | 1 1/4 | — | 5/8 | — | 2 3/8 | .08 | B-8 | 29 | T-8*/346 | 2 | |
| BBLU-4S2 | 4 Str. | Gray | .232 | 1/2 | 1 1/4 | 1 3/16 | 1 1/4 | — | 5/8 | — | 2 39/64 | .08 | B-8 | 29 | T-8*/346 | 2 | |
| BBLU-4S3 | 4 Str. | Gray | .232 | 3/8** | 1 3/32 | 1/2 | 1 1/16 | — | 5/16 | — | 2 1/16 | .09 | B-8 | 29 | T-8*/346 | 2 | |
| BBLU-3S1 | 3 Str. | White | .260 | 5/16 | 1 1/8 | 1 7/32 | 3/4 | — | 11/32 | — | 2 5/32 | .11 | B-9 | — | T-9* | 2 | |
| BBLU-3S3 | 3 Str. | White | .260 | 1/4 | 1 1/8 | 1 7/32 | — | — | 11/32 | — | 2 5/32 | .11 | B-9 | — | T-9* | 2 | |
| BBLU-2S | 2 Str. | Brown | .292 | 5/16 | 1 7/32 | 1 9/16 | — | — | 11/32 | — | 2 1/4 | .11 | B-10 | 33 | T-10 | 2 | |
| BBLU-1S | 1 Str. | Green | .332 | 5/16 | 1 11/32 | 1 1/2 | 3/4 | — | 11/32 | — | 2 3/8 | .11 | B-11 | 37 | T-11*/375 | 2 | |
| BBLU-1/0S | 1/0 Str. | Pink | .375 | 5/16 | 1 11/16 | 1 3/4 | — | — | 11/32 | — | 2 7/16 | .12 | B-12 | 42 | T-12*/348 | 2 | |
| BBLU-1/0S2 | 1/0 Str. | Pink | .375 | 3/8 | 1 1/4 | 1 3/4 | 1 3/16 | — | 1 3/32 | — | 2 3/8 | .12 | B-12 | 42 | T-12*/348 | 2 | |
| BBLU-2/0S | 2/0 Str. | Black | .419 | 3/8 | 1 1/2 | 1 1/2 | 7/8 | — | 1 3/32 | — | 2 11/16 | .12 | B-13 | 45 | T-13 | 2 | |
| BBLU-2/0S1 | 2/0 Str. | Black | .419 | 1/2 | 1 1/2 | 1 3/16 | 1 1/4 | — | 5/8 | — | 3 1/16 | .12 | B-13 | 45 | T-13 | 2 | |
| BBLU-3/0S | 3/0 Str. | Orange | .470 | 1/2 | 1 1/2 | 2 9/32 | 1 1/4 | — | 5/8 | — | 3 1/8 | .12 | B-14 | 50 | T-14 | 5 | 5 |
| BBLU-3/0S2 | 3/0 Str. | Orange | .470 | 3/4 | 1 1/2 | 2 9/32 | 1 1/4 | — | 7/16 | — | 3 1/8 | .12 | B-14 | 50 | T-14 | 5 | 5 |
| BBLU-4/0S | 4/0 Str. | Purple | .520 | 1/2 | 1 5/8 | 1 | 1 1/4 | — | 5/8 | — | 3 5/16 | .14 | B-15 | 54 | T-15 | 5 | 5 |
| BBLU-025S | 250 MCM | Yellow | .634 | 1/2 | 1 5/8 | 1 1/8 | 1 1/4 | — | 5/8 | — | 3 3/8 | .16 | B-16 | 62 | T-16 | 5 | 5 |
| BBLU-030S | 300 MCM | White | .634 | 1/2 | 2 | 1 3/16 | 1 1/4 | — | 5/8 | — | 3 13/16 | .16 | B-17 | 66H/66 | T-17* | | |
| BBLU-035S | 350 MCM | White | .682 | 1/2 | 2 | 1 9/32 | 1 1/4 | — | 5/8 | — | 3 27/32 | .17 | B-18 | 71H/71 | T-18* or T-324 | | |
| BBLU-040S | 400 MCM | White | .728 | 5/8 | 2 1/8 | 1 13/32 | 1 1/2 | — | 3/4 | — | 4 5/16 | .19 | B-19 | 76H/76 | T-19*/470 | 7 | 7 |
| BBLU-040S1 | 400 MCM | White | .728 | 1/2 | 2 1/8 | 1 13/32 | 1 1/4 | — | 5/8 | — | 4 1/16 | .19 | B-19 | 76H/76 | T-19*/470 | | |
| BBLU-050S | 500 MCM | Brown | .815 | 5/8 | 2 1/4 | 1 17/32 | 1 15/32 | — | 2 3/32 | — | 4 1/2 | .22 | B-20 | 87 | T-20* or T-299 | 9 | 9 |
| BBLU-050S2 | 500 MCM | Brown | .815 | 1/2 | 2 1/4 | 1 17/32 | 1 1/4 | — | 2 3/32 | — | 4 1/4 | .22 | B-20 | 87 | T-20* or T-299 | | |
| BBLU-060S | 600 MCM | Green | .893 | 5/8 | 2 11/16 | 1 23/32 | 1 1/2 | — | 2 3/32 | — | 5 1/8 | .27 | B-22 | 94H/94 | T-22*/472 | | |
| BBLU-065S | 650 MCM | Pink | .930 | 1/2 | 2 13/16 | 1 25/32 | 1 3/4 | — | 7/8 | — | 5 13/32 | .27 | B-300 | 99 | — | | |
| BBLU-065S1 | 650 MCM | Pink | .930 | 5/8 | 2 13/16 | 1 25/32 | 1 3/4 | — | 7/8 | — | 5 13/32 | .27 | B-300 | 99 | — | 9 | 9 |
| BBLU-075S | 750 MCM | Black | .999 | 5/8 | 2 7/8 | 1 29/32 | 1 1/2 | — | 2 3/32 | — | 5 5/16 | .27 | B-24 | 106H/106 | T-24*/473 | | |
| BBLU-080S | 800 MCM | — | 1.031 | 5/8 | 2 15/16 | 1 31/32 | 1 1/2 | — | 2 3/32 | — | 5 1/2 | .25 | B-25 | 107H/107 | — | | |
| BBLU-100S | 1000 MCM | White | 1.153 | 5/8 | 3 | 2 9/16 | 1 1/2 | — | 2 3/32 | — | 5 5/8 | .33 | B-27 | 125 | — | | |
| BBLU-150S | 1500 MCM | — | 1.412 | 3/4 | 3 3/16 | 2 11/16 | 2 1/8 | — | 1 1/16 | — | 6 9/16 | .39 | B-31 | — | — | | |
| BBLU-200S | 2000 MCM | — | 1.632 | 3/4 | 3 7/16 | 3 1/16 | 2 1/8 | — | 1 1/16 | — | 6 7/8 | .47 | B-34 | — | — | | |

†For conversion to metric range, see page 175.

■ For additional tool references, see pages 44 thru 51.

* Consult factory for availability of dies. Not available at this time.

**Actual Hole Size

†Concentric, compressed and compact stranding.

COPPER PENN-CRIMPS® • TYPE BBLU

Continued from preceding page



2 HOLE LUGS

| Catalog Number | Copper Cond. Range† | Color Code | Wire Dia. (in) ± | Stud Size | Approximate Dimensions (in inches) | | | | | | | | Crimping Tool Reference | | | | |
|----------------|---------------------|------------|------------------|-----------|------------------------------------|---------|---------|-------|-------|---------|-----|-------------------|-------------------------|-------------|------------------|-------|--|
| | | | | | B | W | D | E | H | L | T | Alt. Tooling | | Penn-Union | | | |
| | | | | | | | | | | | | Burndy Index No.■ | T&B Die | PUC Die | Pressure Setting | | |
| BBLU-6D | 6 Str. | Blue | .184 | 1/4 | 1 1/8 | 13/32 | 1 9/32 | 5/8 | 5/16 | 2 21/32 | .09 | B-7 | 24 | T-7*/374 | TDY-1 | TDY-U | |
| BBLU-6DN | 6 Str. | Blue | .184 | 1/2 | 1 1/8 | 13/16 | 3 | 1 3/4 | 5/8 | 4 11/32 | .09 | B-7 | 24 | T-7*/374 | | | |
| BBLU-4D | 4 Str. | Gray | .232 | 1/4 | 1 1/8 | 1/2 | 1 9/32 | 5/8 | 5/16 | 2 11/16 | .09 | B-8 | | T-8*/346 | 2 | | |
| BBLU-4D1 | 4 Str. | Gray | .232 | 1/2 | 1 1/8 | 15/16 | 2 7/8 | 1 3/4 | 17/32 | 4 15/64 | .09 | B-8 | | T-8*/346 | 2 | | |
| BBLU-3D | 3 Str. | White | .260 | 5/16 | 1 1/8 | 17/32 | 1 5/8 | 7/8 | 11/32 | 3 1/32 | .09 | B-9 | | T-9* | 2 | | |
| BBLU-2D | 2 Str. | Brown | .292 | 5/16 | 1 1/4 | 5/8 | 1 15/32 | 3/4 | 11/32 | 3 | .09 | B-10 | | T-10 | 2 | | |
| BBLU-2D6 | 2 Str. | Brown | .292 | 1/2 | 1 1/4 | 13/16 | 3 | 1 3/4 | 5/8 | 4 33/64 | .09 | B-10 | | T-10 | 2 | | |
| BBLU-1D | 1 Str. | Green | .332 | 5/16 | 1 3/8 | 11/16 | 1 5/8 | 7/8 | 11/32 | 3 3/8 | .09 | B-11 | 37 | T-11*/375 | 2 | | |
| BBLU-1D2 | 1 Str. | Green | .332 | 1/2 | 1 3/8 | 25/32 | 3 | 1 3/4 | 5/8 | 4 5/8 | .11 | B-11 | 37 | T-11*/375 | 2 | | |
| BBLU-1/0D | 1/0 Str. | Pink | .375 | 5/16 | 1 3/8 | 3/4 | 1 19/32 | 7/8 | 11/32 | 3 5/16 | .12 | B-12 | 42 | T-12*/348 | 2 | | |
| BBLU-1/0D2 | 1/0 Str. | Pink | .375 | 3/8 | 1 3/8 | 3/4 | 2 5/8 | 1 3/4 | 3/8 | 4 5/16 | .12 | B-12 | 42 | T-12*/348 | 2 | | |
| BBLU-1/0D3 | 1/0 Str. | Pink | .375 | 1/2 | 1 3/8 | 13/16 | 2 7/8 | 1 3/4 | 17/32 | 4 1/2 | .12 | B-12 | 42 | T-12*/348 | 2 | | |
| BBLU-2/0D | 2/0 Str. | Black | .419 | 1/2 | 1 1/2 | 13/16 | 3 | 1 3/4 | 5/8 | 5 1/16 | .12 | B-13 | 45 | T-13 | 2 | | |
| BBLU-3/0D | 3/0 Str. | Orange | .470 | 1/2 | 1 1/2 | 29/32 | 3 | 1 3/4 | 5/8 | 5 1/4 | .12 | B-14 | 50 | T-14 | | | |
| BBLU-4/0D | 4/0 Str. | Purple | .528 | 1/2 | 1 5/8 | 1 | 3 | 1 3/4 | 5/8 | 5 1/2 | .14 | B-15 | 54 | T-15 | 5 | 5 | |
| BBLU-025D | 250 MCM | Yellow | .575 | 1/2 | 1 5/8 | 1 1/8 | 3 | 1 3/4 | 5/8 | 5 1/8 | .16 | B-16 | 62 | T-16 | | | |
| BBLU-030D | 300 MCM | White | .634 | 1/2 | 2 | 1 3/16 | 3 | 1 3/4 | 5/8 | 5 9/16 | .16 | B-17 | 66H/66 | T-17* | | | |
| BBLU-035D | 350 MCM | Red | .682 | 1/2 | 2 | 1 5/16 | 3 | 1 3/4 | 5/8 | 5 5/8 | .17 | B-18 | 71H/71 | T-18/ T-324 | 7 | 7 | |
| BBLU-040D | 400 MCM | Blue | .728 | 1/2 | 2 1/8 | 1 13/32 | 3 | 1 3/4 | 5/8 | 5 13/16 | .19 | B-19 | 76H/76 | T-19*/470 | | | |
| BBLU-050D | 500 MCM | Brown | .815 | 1/2 | 2 1/4 | 1 17/16 | 3 | 1 3/4 | 5/8 | 6 | .22 | B-20 | 87 | T-20*/T-299 | | | |
| BBLU-060D | 600 MCM | Green | .893 | 1/2 | 2 11/16 | 1 17/32 | 3 | 1 3/4 | 5/8 | 6 9/16 | .26 | B-22 | 94H/94 | T-22*/472 | 9 | 9 | |
| BBLU-065D | 650 MCM | Pink | .930 | 1/2 | 2 13/32 | 1 17/32 | 3 | 1 3/4 | 5/8 | 6 11/16 | .27 | B-300 | 99 | - | | | |
| BBLU-065D1 | 650 MCM | Pink | .930 | 1/2 | 2 13/32 | 1 17/32 | 3 | 1 3/4 | 5/8 | 6 11/16 | .27 | B-300 | 99 | - | | | |
| BBLU-075D | 750 MCM | Black | .999 | 1/2 | 2 7/8 | 1 29/32 | 3 | 1 3/4 | 5/8 | 6 13/16 | .27 | B-24 | 106H/106 | T-24*/473 | | | |
| BBLU-080D | 800 MCM | - | 1.031 | 1/2 | 2 11/16 | 1 17/32 | 3 | 1 3/4 | 5/8 | 7 | .25 | B-25 | 107H/107 | - | | | |
| BBLU-100D | 1000 MCM | White | 1.153 | 1/2 | 3 | 2 3/16 | 3 | 1 1/4 | 9/16 | 6 1/2 | .33 | B-27 | 125 | - | | | |
| BBLU-100D1 | 1000 MCM | White | 1.153 | 1/2 | 3 | 2 3/16 | 3 | 1 3/4 | 5/8 | 7 1/8 | .33 | B-27 | 125 | - | | | |
| BBLU-150D | 1500 MCM | - | 1.41 | 1/2 | 3 3/16 | 2 11/16 | 2 1/2 | 1 3/8 | 9/16 | 6 15/16 | .39 | B-31 | - | - | | | |
| BBLU-150D1 | 1500 MCM | - | 1.41 | 1/2 | 3 3/16 | 2 11/16 | 3 | 1 3/4 | 5/8 | 7 7/16 | .39 | B-31 | - | - | | | |
| BBLU-200D | 2000 MCM | - | 1.652 | 1/2 | 3 7/16 | 3 5/64 | 3 | 1 1/2 | 5/8 | 7 3/8 | .47 | B-34 | - | - | | | |
| BBLU-200D1 | 2000 MCM | - | 1.652 | 1/2 | 3 7/16 | 3 5/64 | 3 | 1 3/4 | 5/8 | 7 3/4 | .47 | B-34 | - | - | | | |

‡For conversion to metric range, see page 1.5.
■ For additional tool reference, see pages 44 thru 51.
* Consult factory for availability of dies. Not available at this time.
† Concentric, compressed and compact stranding.



TELECOMMUNICATIONS LUGS

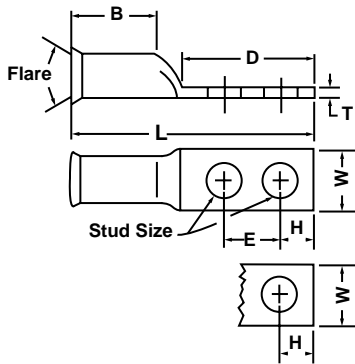
| Catalog Number | T-C Suffix | Copper Cond. Range | Color Code | Wire Dia. (In) | Stud Size | B | W | D | E | H | L | T | Burndy Index No. | T&B Die | PUC Die | Pressure Settings | |
|----------------|------------|--------------------|------------|----------------|-----------|------|-----|------|-----|-----|------|-----|------------------|---------|----------|-------------------|-------|
| | | | | | | | | | | | | | | | | TDY-1 | TDY-U |
| BBLU-6D7 | TC38E2 | 6 Str. | Blue | .184 | 3/8 | 1.13 | .61 | 1.58 | .75 | .38 | 2.95 | .08 | B-7 | 24 | T-7*/374 | X | X |
| BBLU-6D8 | TC38 | 6 Str. | Blue | .184 | 3/8 | 1.13 | .61 | 1.83 | 1 | .38 | 3.20 | .08 | B-7 | 24 | T-7*/374 | X | X |
| BBLU-3D4 | TC38E2 | 3 Str. 2 Sol. | White | .260 .258 | 3/8 | 1.19 | .65 | 1.58 | .75 | .38 | 2.95 | .17 | B-9 | - | T-9 | 2 | X |
| BBLU-3D3 | TC38 | 3 Str. 2 Sol. | White | .260 .258 | 3/8 | 1.19 | .64 | 1.83 | 1 | .38 | 3.20 | .17 | B-9 | - | T-9 | 2 | X |
| BBLU-2D7 | TC38E2 | 2 Str. | Brown | .292 | 3/8 | 1.25 | .59 | 1.58 | .75 | .38 | 3.09 | .11 | B-10 | 33 | T-10 | 2 | X |
| BBLU-2D8 | TC38 | 2 Str. | Brown | .292 | 3/8 | 1.25 | .59 | 1.83 | 1 | .38 | 3.34 | .11 | B-10 | 33 | T-10 | 2 | X |
| BBLU-2/0D8 | TC38 | 2/0 Str. | Black | .419 | 3/8 | 1.50 | .81 | 1.83 | 1 | .38 | 3.66 | .12 | B-13 | 45 | T-13 | 2 | X |
| BBLU-4/0D5 | TC38 | 4/0 Str. | Purple | .528 | 3/8 | 1.63 | 1 | 1.83 | 1 | .38 | 3.89 | .14 | B-15 | 54 | T-15 | 5 | 5 |

FLARED COPPER PENN-CRIMPS® • TYPE BBLU-FL



Long barrel lugs for #4 (105/24) thru 1111 MCM (2750/24) diesel locomotive cable and class G, H, I, & K flexible cable.

CU
90°C



Double length barrel permits two crimps in the larger sizes for additional assurance on heavy duty loads. One piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer and wide flare provide easy cable insertion even for the largest extra flexible cable. End of cable is protected from environmental hazards by completely closed transition. See catalog page 38 for flexible cable recommendations and listing.

Catalog number and conductor size marked on every piece insures positive identification.

Can be installed with existing crimping tools. Color-coding conforms to industry requirements to insure proper connector/die selection and provide for faster installation.

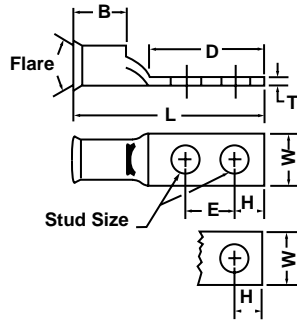
BBLU LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 35 KV.

| Catalog Number | Diesel Locomotive Cable Range | Stranding | Color Code | Stud Size | Approximate Dimensions (inches) | | | | | | | Flex Wire Crimping Tool Reference | | | | |
|-------------------------------|-------------------------------|-----------|------------|-----------|---------------------------------|---------|---------|-------|-------|---------|-----|-----------------------------------|-----------|------------|-----|---|
| | | | | | B | W | D | E | H | L | T | Alt. Tooling | | PENN UNION | | |
| | | | | | | | | | | | | Burndy Index | T & B Die | TDM 250 | TDY | |
| 1 | U | | | | | | | | | | | | | | | |
| BBLU-3D-FL BBLU-3S1-FL | 4 AWG | 105/24 | White | 5/16 | 1 1/8 | 17/32 | 1 3/8 | 7/8 | 11/32 | 3 1/32 | .09 | B-9 | - | XF | 2 | - |
| BBLU-1D-FL BBLU-1S-FL | 2 AWG | 150/24 | Green | 5/16 | 1 3/8 | 1 1/4 | 1 1/2 | 7/8 | 11/32 | 3 3/8 | .11 | B-11 | 37 | XF | 2 | - |
| BBLU-1/0D-FL BBLU-1/0S-FL | 1 AWG | 225/24 | Pink | 5/16 | 1 3/4 | 1 1/2 | 1 19/32 | 7/8 | 11/32 | 3 5/16 | .12 | B-12 | 42 | XF | 2 | - |
| BBLU-2/0D-FL BBLU-2/0S-FL | 1/0 AWG | 275/24 | Black | 1/2 | 1 1/2 | 1 1/16 | 3 | 1 3/4 | 5/8 | 4 13/16 | .12 | B-13 | 45 | XF | 2 | - |
| BBLU-3/0D-FL BBLU-3/0S-FL | 2/0 AWG | 325/24 | Orange | 1/2 | 1 1/2 | 29/32 | 3 | 1 3/4 | 5/8 | 4 7/8 | .12 | B-14 | 50 | XF | 5 | 5 |
| BBLU-4/0D-FL BBLU-4/0S-FL | 3/0 AWG | 450/24 | Blue | 1/2 | 1 5/8 | 1 | 1 1/4 | 5/8 | 5/8 | 5 1/16 | .14 | B-15 | 54 | XF | 5 | 5 |
| BBLU-030D-FL BBLU-030S-FL | 4/0 AWG | 550/24 | White | 1/2 | 2 | 1 3/16 | 3 | 1 3/4 | 5/8 | 5 9/16 | .16 | B-17 | 66H/66 | - | 7 | 7 |
| BBLU-035D-FL BBLU-035S-FL | 262 MCM | 650/24 | Red | 1/2 | 2 | 1 5/16 | 3 | 1 3/4 | 5/8 | 5 5/8 | .17 | B-18 | 71H/71 | - | 7 | 7 |
| BBLU-040D-FL BBLU-040S-FL | 310 MCM | 750/24 | Blue | 1/2 | 2 1/8 | 1 13/32 | 3 | 1 3/4 | 5/8 | 5 13/16 | .19 | B-19 | 76H/76 | - | 7 | 7 |
| BBLU-050D-FL BBLU-050S | 370 MCM | 925/24 | Brown | 1/2 | 2 1/4 | 1 17/32 | 3 | 1 3/4 | 5/8 | 6 | .22 | B-20 | 87 | - | 9 | 9 |
| BBLU-060D-FL BBLU-060S-FL | 440 MCM | 1100/24 | Green | 1/2 | 2 11/16 | 1 23/32 | 3 | 1 3/4 | 5/8 | 6 9/16 | .27 | B-22 | 94H/94 | - | 9 | 9 |
| BBLU-065D-FL BBLU-065S1-FL | 535 MCM | 1325/24 | Pink | 1/2 | 2 3/4 | 1 25/32 | 3 | 1 3/4 | 5/8 | 6 9/16 | .27 | B-300 | 99 | - | 9 | 9 |
| BBLU-075D-FL BBLU-075S-FL | 646 MCM | 1600/24 | Black | 1/2 | 2 7/8 | 1 29/32 | 3 | 1 3/4 | 5/8 | 6 13/16 | .27 | B-24 | 106H/106 | - | 9 | 9 |
| BBLU-100D1-FL BBLU-100S-FL | 777 MCM | 1925/24 | White | 1/2 | 3 | 2 3/16 | 3 | 1 3/4 | 5/8 | 7 1/8 | .33 | B-27 | 125 | - | 9 | 9 |
| BBLU-150D1-FL BBLU-150S-FL | 1111 MCM | 2750/24 | - | 3/4 | 3 3/16 | 2 11/16 | 3 | 1 3/4 | 5/8 | 7 7/16 | .39 | B-31 | - | - | - | - |



FLARED COPPER PENN-CRIMPS® • TYPE BLU-FL

Crimp lugs with inspection window for #4 (105/24) thru 1111 MCM (2750/24) diesel locomotive cable and class G, H, I, & K flexible cable.



Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Curved entrance chamfer and wide flare provide easy cable insertion even for fine stranded extra flexible cable. Inspection window insures full insertion. See catalog number 38 for flexible cable recommendations and listing.

Catalog number and conductor size marked on every piece insures positive identification.

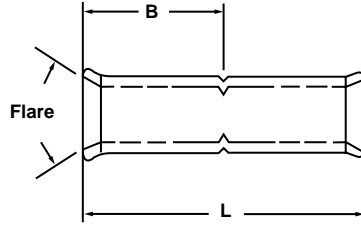
Can be installed with existing crimping tools. Color-coding conforms to industry requirements to insure proper connector/die selection and to provide for faster installation.

BLU LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 250V.

| Catalog Number | Diesel Locomotive Cable Range | Stranding | Color Code | Stud Size | Approximate Dimensions (in inches) | | | | | | | Flex Wire Crimping Tool Reference | | | | |
|-----------------------------|-------------------------------|-----------|------------|--------------|--------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------|------------|-----|---|---|
| | | | | | L | D | E | H | T | W | Alt. Tooling | | PENN UNION | | | |
| | | | | | | | | | | | Burndy Index | T & B Die | TDM 250 | TDY | | |
| 1 | U | | | | | | | | | | | | | | | |
| BLU-3D-FL BLU-3S2-FL | 4 AWG | 105/24 | White | 1/4 5/16 | 2 ¹⁹ / ₆₄ 1 ⁵⁵ / ₆₄ | 7/8 7/8 | 1 ³ / ₁₆ 3/4 | 5/8 - | 1/4 11 ¹ / ₃₂ | 3/32 3/32 | 17 ¹ / ₃₂ 9/16 | B-9 | - | XF | 2 | - |
| BLU-1D4-FL BLU-1S-FL | 2 AWG | 150/24 | Green | 5/16 5/16 | 1 1 | 7/8 7/8 | 1 ⁵ / ₈ 3/4 | 7/8 - | 11 ¹ / ₃₂ 11 ¹ / ₃₂ | 7/64 7/64 | 43 ¹ / ₆₄ 43 ¹ / ₆₄ | B-11 | 37 | XF | 2 | - |
| BLU-1/0D-FL BLU-1/0S-FL | 1 AWG | 225/24 | Pink | 3/8 3/8 | 2 ¹³ / ₁₆ 2 ¹³ / ₁₆ | 7/8 7/8 | 1 ⁵ / ₈ 3/4 | 7/8 - | 11 ¹ / ₃₂ 11 ¹ / ₃₂ | 1/8 1/8 | 3/4 3/4 | B-12 | 42 | XF | 2 | - |
| BLU-2/0D4-FL BLU-2/0S-FL | 1/0 AWG | 275/24 | Pink | 3/4 3/4 | 3 ¹ / ₁₆ 2 ⁷ / ₈ | 1 ⁵ / ₁₆ 1 ⁵ / ₁₆ | 1 ¹³ / ₁₆ 7/8 | 1 - | 3/8 13 ¹ / ₃₂ | 1/8 1/8 | 1 ¹³ / ₁₆ 1 ¹³ / ₁₆ | B-13 | 45 | XF | 2 | - |
| BLU-3/0D-FL BLU-3/0S1-FL | 2/0 AWG | 325/24 | Orange | 1/2 1/2 | 4 ¹ / ₄ 2 ¹ / ₂ | 1 1 | 2 ⁷ / ₈ 1 ¹ / ₈ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 17 ¹ / ₃₂ | 1/8 1/8 | 2 ²⁹ / ₃₂ 2 ²⁹ / ₃₂ | B-14 | 50 | XF | 5 | 5 |
| BLU-4/0D-FL BLU-4/0S1-FL | 3/0 AWG | 450/24 | Purple | 1/2 1/2 | 4 ⁵ / ₁₆ 2 ⁹ / ₁₆ | 1 1 | 2 ⁷ / ₈ 1 ¹ / ₈ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 9/16 | 9/64 9/64 | 1 1 | B-15 | 54 | XF | 5 | 5 |
| BLU-030D-FL BLU-030S-FL | 4/0 AWG | 650/24 | White | 1/2 1/2 | 4 ¹ / ₂ 2 ³ / ₄ | 1 ¹ / ₁₆ 1 ¹ / ₁₆ | 2 ⁷ / ₈ 1 ¹ / ₈ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 17 ¹ / ₃₂ | 5/32 5/32 | 1 ³ / ₁₆ 1 ³ / ₁₆ | B-17 | 66H/66 | - | 7 | 7 |
| BLU-035D-FL BLU-035S-FL | 67 MCM | 650/24 | Red | 1/2 1/2 | 4 ⁵ / ₈ 2 ²⁹ / ₃₂ | 1 ¹ / ₈ 1 ¹ / ₈ | 2 ⁷ / ₈ 1 ⁵ / ₃₂ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 17 ¹ / ₃₂ | 11/64 11/64 | 1 ⁹ / ₃₂ 1 ⁹ / ₃₂ | B-18 | 71H/71 | - | 7 | 7 |
| BLU-040D-FL BLU-040S-FL | 75 MCM | 775/24 | Blue | 1/2 5/8 | 4 ³ / ₄ 3 ⁵ / ₁₆ | 1 ³ / ₁₆ 1 ³ / ₁₆ | 2 ⁷ / ₈ 1 ⁷ / ₁₆ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 2 ¹ / ₃₂ | 3/16 3/16 | 1 ¹³ / ₃₂ 1 ¹³ / ₃₂ | B-19 | 76H/76 | - | 7 | 7 |
| BLU-050D-FL BLU-050S-FL | 373 MCM | 925/24 | Brown | 1/2 5/8 | 5 3 ⁹ / ₁₆ | 1 ³ / ₈ 1 ³ / ₈ | 2 ⁷ / ₈ 1 ⁷ / ₁₆ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 2 ⁷ / ₃₂ | 7/32 7/32 | 1 ¹⁷ / ₃₂ 1 ¹⁷ / ₃₂ | B-20 | 87 | - | 9 | 9 |
| BLU-060D-FL BLU-060S-FL | 444 MCM | 1100/24 | Green | 1/2 5/8 | 5 ³ / ₃₂ 2 ³¹ / ₃₂ | 1 ³ / ₈ 1 ³ / ₈ | 2 ⁷ / ₈ 1 ³ / ₄ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 7/8 | 17/64 17/64 | 1 ²³ / ₃₂ 1 ²³ / ₃₂ | B-22 | 94H/94 | - | 9 | 9 |
| BLU-065D-FL BLU-065S4-FL | 535 MCM | 1325/24 | Pink | 1/2 5/8 | 5 ³ / ₃₂ 3 ³¹ / ₃₂ | 1 ³ / ₈ 1 ³ / ₈ | 2 ⁷ / ₈ 1 ³ / ₄ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 7/8 | 17/64 17/64 | 1 ²⁵ / ₃₂ 1 ²⁵ / ₃₂ | B-300 | 99 | - | 9 | 9 |
| BLU-075D-FL BLU-075S-FL | 646 MCM | 1600/24 | Black | 1/2 5/8 | 5 ⁷ / ₁₆ 4 | 1 ⁵ / ₈ 1 ⁵ / ₈ | 2 ⁷ / ₈ 1 ⁷ / ₁₆ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 2 ¹ / ₃₂ | 17/64 17/64 | 1 ²⁹ / ₃₂ 1 ²⁹ / ₃₂ | B-24 | 106H/106 | - | 9 | 9 |
| BLU-100D-FL BLU-100S-FL | 777 MCM | 1925/24 | White | 1/2 5/8 | 5 ⁷ / ₈ 4 ⁷ / ₈ | 1 ⁷ / ₈ 1 ⁷ / ₈ | 2 ⁷ / ₈ 1 ⁷ / ₈ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 1 ⁵ / ₁₆ | 2 ¹ / ₆₄ 2 ¹ / ₆₄ | 2 ³ / ₁₆ 2 ³ / ₁₆ | B-27 | 125 | - | 9 | 9 |
| BLU-150D-FL BLU-150S-FL | 1111 MCM | 2750/24 | - | 1/2 3/4 | 6 ³ / ₃₂ 5 ¹⁵ / ₃₂ | 2 2 | 2 ⁷ / ₈ 2 ¹ / ₄ | 1 ³ / ₄ - | 17 ¹ / ₃₂ 1 ¹ / ₈ | 3/8 3/8 | 2 ¹¹ / ₁₆ 2 ¹¹ / ₁₆ | B-31 | - | - | - | - |

FLARED COPPER PENN-CRIMPS® • TYPE BCU-FL & BBCU-FL

Crimp splices for #4 (105/24) thru 1111 MCM (2750/24)
diesel locomotive cable and class G, H, I, & K flexible cable.



Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. General purpose chamfer and wide flare provide easy cable insertion even for fine stranded extra flexible cable. Type BCU-FL has double length barrel which permits two crimping operations for MCM and larger sizes for additional assurance of heavy duty loads. See catalog page 38 for flexible cable recommendation and listing.

Catalog number and conductor size marked on every piece insures positive identification.

Positive cable stops insure proper insertion of conductors to full depth.

Can be installed with existing crimping tools. Color-coding conforms to industry requirements to insure proper connector/die selection and to provide for faster installation.

BCU & BBCU Splices are suitable for use at voltages up to 35 KV provided connector is taped in accordance with accepted practices, 5 KV is maximum voltage level in all bare splice applications.

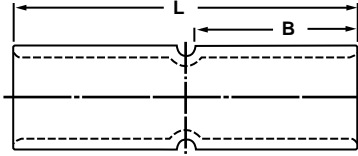
| Catalog Number | Diesel Locomotive Cable Range | Stranding | Color Code | Approximate Dimensions (in inches) | | Flex Wire Crimping Tool Reference | | | | |
|----------------|-------------------------------|-----------|------------|------------------------------------|-------------------------------|-----------------------------------|-----------|------------|-------|-------|
| | | | | B | L | Alt. Tooling | | PENN-UNION | | |
| | | | | | | Burndy Index | T & B Die | TDM-250 | TDY-1 | TDY-U |
| BCU-3-FL | 4 AWG | 105/24 | White | 1 ³ / ₈ | 1 ³ / ₄ | B-9 | — | XF | 2 | — |
| BCU-1-FL | 2 AWG | 150/24 | Green | 7/8 | 1 ⁷ / ₈ | B-11 | 37 | XF | 2 | — |
| BCU-1/0-FL | 1 AWG | 225/24 | Pink | 1 ¹ / ₈ | 1 ⁷ / ₈ | B-12 | 42 | XF | 2 | — |
| BCU-2/0-FL | 1/0 AWG | 275/24 | Black | 1 ¹ / ₂ | 2 | B-13 | 45 | XF | 2 | — |
| BCU-3/0-FL | 2/0 AWG | 325/24 | Orange | 1 ¹ / ₂ | 2 ¹ / ₈ | B-14 | 50 | XF | 5 | 5 |
| BCU-4/0-FL | 3/0 AWG | 450/24 | Purple | 1 ⁵ / ₈ | 2 ¹ / ₈ | B-15 | 54 | XF | 5 | 5 |
| BCU-030-FL | 4/0 AWG | 550/24 | White | 2 | 2 ¹ / ₄ | B-17 | 66H/66 | — | 7 | 7 |
| BCU-035-FL | 262 MCM | 650/24 | Red | 1 ¹ / ₈ | 2 ³ / ₈ | B-18 | 71H/71 | — | 7 | 7 |
| BCU-040-FL | 313 MCM | 775/24 | Blue | 1 ³ / ₁₆ | 2 ¹ / ₂ | B-19 | 76H/76 | — | 7 | 7 |
| BCU-050-FL | 373 MCM | 925/24 | Brown | 1 ³ / ₈ | 2 ⁷ / ₈ | B-20 | 87 | — | 9 | 9 |
| BCU-060-FL | 444 MCM | 1100/24 | Green | 1 ³ / ₈ | 2 ⁷ / ₈ | B-22 | 94H/94 | — | 9 | 9 |
| BCU-065-FL | 535 MCM | 1325/24 | Pink | 1 ³ / ₈ | 2 ⁷ / ₈ | B-300 | 99 | — | 9 | 9 |
| BCU-075-FL | 646 MCM | 1600/24 | Black | 1 ⁵ / ₈ | 3 ³ / ₈ | B-24 | 106H/106 | — | 9 | 9 |
| BCU-100-FL | 777 MCM | 1925/24 | White | 1 ⁷ / ₈ | 3 ⁷ / ₈ | B-27 | 125 | — | 9 | 9 |
| BCU-150-FL | 1111 MCM | 2750/24 | — | 2 | 4 ¹ / ₈ | B-31 | — | — | — | — |

LONG BARREL SPLICES

| | | | | | | | | | | |
|-------------|----------|---------|--------|---------------------------------|-------------------------------|-------|----------|----|---|---|
| BBCU-3-FL | 4 AWG | 105/24 | White | 1 ¹ / ₈ | 2 ³ / ₈ | B-9 | — | XF | 2 | — |
| BBCU-1-FL | 2 AWG | 150/24 | Green | 1 ³ / ₈ | 2 ⁷ / ₈ | B-11 | 37 | XF | 2 | — |
| BBCU-1/0-FL | 1 AWG | 225/24 | Pink | 1 ³ / ₈ | 2 ⁷ / ₈ | B-12 | 42 | XF | 2 | — |
| BBCU-2/0-FL | 1/0 AWG | 275/24 | Black | 1 ¹ / ₂ | 3 ¹ / ₈ | B-13 | 45 | XF | 2 | — |
| BBCU-3/0-FL | 2/0 AWG | 325/24 | Orange | 1 ¹ / ₂ | 3 ¹ / ₈ | B-14 | 50 | XF | 5 | 5 |
| BBCU-4/0-FL | 3/0 AWG | 450/24 | Purple | 1 ⁵ / ₈ | 3 ³ / ₈ | B-15 | 54 | XF | 5 | 5 |
| BBCU-030-FL | 4/0 AWG | 550/24 | White | 2 | 4 ¹ / ₈ | B-17 | 66H/66 | — | 7 | 7 |
| BBCU-035-FL | 262 MCM | 650/24 | Red | 2 | 4 ¹ / ₈ | B-18 | 71H/71 | — | 7 | 7 |
| BBCU-040-FL | 313 MCM | 775/24 | Blue | 2 ¹ / ₈ | 4 ³ / ₈ | B-19 | 76H/76 | — | 7 | 7 |
| BBCU-050-FL | 373 MCM | 925/24 | Brown | 2 ¹ / ₄ | 4 ⁵ / ₈ | B-20 | 87 | — | 9 | 9 |
| BBCU-060-FL | 444 MCM | 1100/24 | Green | 2 ¹ / ₁₆ | 5 ¹ / ₂ | B-22 | 94H/94 | — | 9 | 9 |
| BBCU-065-FL | 535 MCM | 1325/24 | Pink | 2 ²³ / ₃₂ | 5 ⁵ / ₈ | B-300 | 99 | — | 9 | 9 |
| BBCU-075-FL | 646 MCM | 1600/24 | Black | 2 ⁷ / ₈ | 5 ⁷ / ₈ | B-24 | 106H/106 | — | 9 | 9 |
| BBCU-100-FL | 777 MCM | 1925/24 | White | 3 | 6 ¹ / ₈ | B-27 | 125 | — | 9 | 9 |
| BBCU-150-FL | 1111 MCM | 2750/24 | — | 3 ³ / ₁₆ | 6 ¹ / ₂ | B-31 | — | — | — | — |

COPPER PENN-CRIMPS® • TYPE BCU & BBCU

Crimp splices for #8 stranded thru 2000 MCM



BCU & BBCU Splices are suitable for use at voltages up to 35KV provided connector is taped in accordance with accepted practices, 5 KV is maximum voltage level in all bare splice applications.

Seamless, one piece, pure copper construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. Type BBCU has double length barrel which permits two crimps on 300 MCM and larger sizes for additional assurance on heavy duty loads.

Catalog number and conductor sizes marked on every piece insures positive identification.

Positive cable stops insure proper insertion of conductors to full depth.

Can be installed with existing crimping tools. Color coding conforms to industry requirements to insure proper connector/die selection and to provide for faster installation.

| Catalog Number | Copper Cond. Range† | Color Code | Wire Diam. (in) ‡ | Approx. Dimensions (in inches) | | Crimping Tool Reference | | | | | | |
|----------------|---------------------|------------|-------------------|--------------------------------|--------|-------------------------|----------|-------------|-------|-------|------------------|--|
| | | | | | | Alt. Crimping | | Penn-Union | | | Pressure Setting | |
| | | | | | | Burton Index | T&B Die | PUC Dies | TDY-1 | TDY-U | | |
| BCU-8 | 8 Str. | Red | .146 | 15/32 | 1 1/16 | B-6 | 21 | T-6/T-11* | | | | |
| BCU-6 | 6 Str. | Blue | .184 | 13/16 | 1 3/4 | B-7 | 24 | T-7*/T-374* | | | | |
| BCU-5 | 5 Str. | — | .206 | 13/16 | 1 3/4 | B-21 | — | T-21 | | | | |
| BCU-4 | 4 Str. | Gray | .232 | 13/16 | 1 3/4 | B-8 | 29 | T-8*/T-346 | | | | |
| BCU-3 | 3 Str. | White | .260 | 13/16 | 1 3/4 | B-9 | — | T-9* | | | | |
| BCU-2 | 2 Str. | Brown | .292 | 7/8 | 1 7/8 | B-10 | 33 | T-10 | | | | |
| BCU-1 | 1 Str. | Green | .332 | 7/8 | 1 7/8 | B-11 | 37 | T-11/375 | 2 | | | |
| BCU-1/0 | 1/0 Str. | Pink | .375 | 7/8 | 1 7/8 | B-12 | 42 | T-12/348 | | | | |
| BCU-2/0 | 2/0 Str. | Black | .419 | 15/16 | 2 | B-13 | 45 | T-13 | | | | |
| BCU-3/0 | 3/0 Str. | Orange | .470 | 1 1/2 | 2 1/8 | B-14 | 50 | T-14 | | | | |
| BCU-4/0 | 4/0 Str. | Purple | .528 | 1 5/8 | 2 1/8 | B-15 | 54 | T-15 | 5 | 5 | | |
| BCU-025 | 250 MCM | Yellow | .575 | 1 5/8 | 2 1/4 | B-16 | 62 | T-16 | | | | |
| BCU-030 | 300 MCM | White | .634 | 2 | 2 1/4 | B-17 | 66H/66 | T-17* | | | | |
| BCU-035 | 350 MCM | Red | .682 | 2 | 2 3/8 | B-18 | 71H/71 | T-18/324 | 7 | 7 | | |
| BCU-040 | 400 MCM | Blue | .728 | 2 1/8 | 2 1/2 | B-19 | 76H/76 | T-19*/470* | | | | |
| BCU-045 | 450 MCM | Blue | .772 | 1 3/8 | 2 7/8 | — | 76H/76 | — | | | | |
| BCU-050 | 500 MCM | Brown | .815 | 1 3/8 | 2 7/8 | B-20 | 87 | T-20/299 | | | | |
| BCU-060 | 600 MCM | Green | .893 | 1 3/8 | 2 7/8 | B-22 | 94H/94 | T-22/472 | | | | |
| BCU-065 | 650 MCM | Pink | .930 | 1 3/8 | 2 7/8 | B-300 | 99 | — | 9 | 9 | | |
| BCU-075 | 750 MCM | Black | .999 | 1 5/8 | 3 3/8 | B-24 | 106H/106 | — | | | | |
| BCU-080 | 800 MCM | — | 1.031 | 1 5/8 | 3 3/8 | B-25 | 107H/107 | — | | | | |
| BCU-100 | 1000 MCM | White | 1.153 | 1 7/8 | 3 7/8 | B-27 | 125 | — | 9** | 9** | | |
| BCU-150 | 1500 MCM | — | 1.412 | 2 | 4 1/8 | B-31 | — | — | | | | |
| BCU-200 | 2000 MCM | — | 1.632 | 2 1/4 | 4 5/8 | B-34 | — | — | | | | |

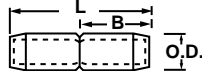
LONG BARREL CRIMP SPICES

| | | | | | | | | | | |
|----------|----------|--------|-------|----------|-------|-------|----------|-------------|-----|-----|
| BBCU-6 | 6 Str. | Blue | .184 | 1 7/8 | 2 3/8 | B-7 | 24 | T-7*/T-374* | | |
| BBCU-4 | 4 Str. | Gray | .232 | 1 1/8 | 2 3/8 | B-8 | 29 | T-8*/T-346 | | |
| BBCU-3 | 3 Str. | Brown | .292 | 1 1/4 | 2 5/8 | B-10 | 33 | T-10 | | |
| BBCU-2 | 2 Str. | White | .260 | 1 1/8 | 2 3/8 | B-9 | — | T-9* | 2 | |
| BBCU-1 | 1 Str. | Green | .332 | 1 3/8 | 2 7/8 | B-11 | 37 | T-11/375 | | |
| BBCU-1/0 | 1/0 Str. | Pink | .375 | 1 3/8 | 2 7/8 | B-12 | 42 | T-12/348 | | |
| BBCU-2/0 | 2/0 Str. | Black | .419 | 1 1/2 | 3 1/8 | B-13 | 45 | T-13 | | |
| BBCU-3/0 | 3/0 Str. | Orange | .470 | 1 1/2 | 3 1/8 | B-14 | 50 | T-14 | | |
| BBCU-4/0 | 4/0 Str. | Purple | .528 | 1 5/8 | 3 3/8 | B-15 | 54 | T-15 | 5 | 5 |
| BBCU-025 | 250 MCM | Yellow | .575 | 1 5/8 | 3 3/8 | B-16 | 62 | T-16 | | |
| BBCU-030 | 300 MCM | White | .634 | 2 | 4 1/8 | B-17 | 66H/66 | T-17* | | |
| BBCU-035 | 350 MCM | Red | .682 | 2 | 4 1/8 | B-18 | 71H/71 | T-18/324 | 7 | 7 |
| BBCU-040 | 400 MCM | Blue | .728 | 2 1/8 | 4 3/8 | B-19 | 76H/76 | T-19*/470* | | |
| BBCU-050 | 500 MCM | Brown | .815 | 2 1/4 | 4 5/8 | B-20 | 87 | T-20/299 | | |
| BBCU-060 | 600 MCM | Green | .893 | 2 1 1/16 | 5 1/2 | B-22 | 94H/94 | T-22/472 | 9 | 9 |
| BBCU-065 | 650 MCM | Pink | .930 | 2 3/4 | 5 5/8 | B-300 | 99 | — | | |
| BBCU-075 | 750 MCM | Black | .999 | 2 7/8 | 5 7/8 | B-24 | 106H/106 | — | | |
| BBCU-080 | 800 MCM | — | 1.031 | 2 15/16 | 6 | B-25 | 107H/107 | — | | |
| BBCU-100 | 1000 MCM | White | 1.153 | 3 | 6 1/8 | B-27 | 125 | — | 9** | 9** |
| BBCU-150 | 1500 MCM | — | 1.412 | 3 3/16 | 6 1/2 | B-31 | — | — | | |
| BBCU-200 | 2000 MCM | — | 1.632 | 3 7/16 | 7 | B-34 | — | — | | |

†For conversion to metric range, see page 175. ‡Concentric, compressed and compact stranding.
*Consult factory for availability of dies. Not available at this time. **With CUAD-1000.

COPPER SPLICES • TYPE BCU-T

Tapered splices for #6 stranded thru 1000 MCM



Tapered Splices. Seamless, pure copper construction, tin plated. Other features same as type BCU.

| Catalog Number | Copper Cond. Range† | Wire Diameter Range‡ | Approximate Dimensions | | | | No. of Crimps Per End | Crimping Tool Reference | |
|----------------|---------------------|----------------------|------------------------|----|-------|-----|-----------------------|-------------------------|---------------|
| | | | B | | L | | | Burndy Die Index No. | T & B Die No. |
| | | | in | mm | in | mm | | | |
| BCU-6-T | 6 Str. | .184 | 7/8 | 22 | 1 7/8 | 73 | 1 | 7 | 24 |
| BCU-4-T | 4 Str. | .232 | 7/8 | 22 | 1 7/8 | 73 | 1 | 8 | 29 |
| BCU-2-T | 2 Str. | .292 | 1 | 25 | 2 1/8 | 54 | 1 | 10 | 33 |
| BCU-1-T | 1 Str. | .332 | 1 | 25 | 2 1/8 | 54 | 1 | 11 | 37 |
| BCU-1/0-T | 1/0 Str. | .375 | 1 | 25 | 2 1/8 | 54 | 1 | 12 | 42 |
| BCU-2/0-T | 2/0 Str. | .419 | 1 1/16 | 27 | 2 1/4 | 57 | 1 | 13 | 45 |
| BCU-3/0-T | 3/0 Str. | .470 | 1 1/8 | 29 | 2 3/8 | 60 | 1 | 14 | 50 |
| BCU-4/0-T | 4/0 Str. | .528 | 1 1/8 | 29 | 2 3/8 | 60 | 1 | 15 | 54 |
| BCU-025-T | 250 MCM | .575 | 1 1/4 | 32 | 2 5/8 | 67 | 1 | 16 | 62 |
| BCU-030-T | 300 MCM | .634 | 1 1/4 | 32 | 2 5/8 | 67 | 1 | 17 | 66H or 66 |
| BCU-035-T | 350 MCM | .682 | 1 5/16 | 33 | 2 3/4 | 70 | 1 | 18 | 71H or 71 |
| BCU-040-T | 400 MCM | .728 | 1 7/16 | 37 | 3 | 76 | 1 | 19 | 76H or 76 |
| BCU-050-T | 500 MCM | .815 | 1 11/16 | 43 | 3 1/2 | 89 | 1 | 20 | 87 |
| BCU-075-T | 750 MCM | .999 | 2 1/16 | 52 | 4 1/4 | 108 | 1 | 24 | 106H or 106 |
| BCU-100-T | 1000 MCM | 1.153 | 2 7/16 | 62 | 5 | 127 | 1 | 27 | 125 |

‡For conversion to metric range, see page 175. †Concentric, compressed and compact stranding.

COPPER SPLICES • TYPES BCU-P AND BCU-PT

Oil stop splices for #4 stranded thru 1000 MCM



Solid barrier cable stops insure proper insertion of conductors to full depth and oil tight seal. Seamless, pure copper construction, tin plated.

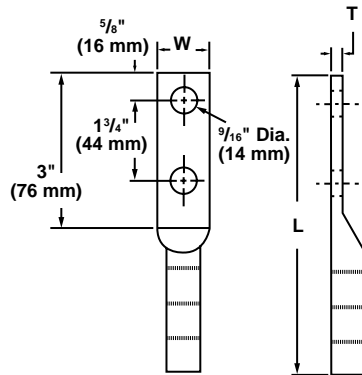
Other features same as type BCU.

| Catalog Number (Oil-Stop) | Catalog Number (Oil-Stop and Tapered) | Copper Conductor Range† | Wire Dia. Range‡ | No. of Crimps Per End | Crimping Tool Reference | |
|---------------------------|---------------------------------------|-------------------------|------------------|-----------------------|-------------------------|---------------|
| | | | in | | Burndy Die Index No. | T & B Die No. |
| BCU-4-P | BCU-4-PT | 4 Str. | .232 | 1 | 8 | 29 |
| BCU-2-P | BCU-2-PT | 2 Str. | .292 | 1 | 10 | 33 |
| BCU-1/0-P | BCU-1/0-PT | 1/0 Str. | .375 | 1 | 12 | 42 |
| BCU-2/0-P | BCU-2/0-PT | 2/0 Str. | .419 | 1 | 13 | 45 |
| BCU-4/0-P | BCU-4/0-PT | 4/0 Str. | .528 | 1 | 15 | 54 |
| BCU-025-P | BCU-025-PT | 250 MCM | .575 | 1 | 16 | 62 |
| BCU-030-P | BCU-030-PT | 300 MCM | .634 | 1 | 17 | 66H or 66 |
| BCU-035-P | BCU-035-PT | 350 MCM | .682 | 1 | 18 | 71H or 71 |
| BCU-050-P | BCU-050-PT | 500 MCM | .815 | 1 | 20 | 87 |
| BCU-075-P | BCU-075-PT | 750 MCM | .999 | 1 | 24 | 106H or 106 |
| BCU-100-P | BCU-100-PT | 1000 MCM | 1.153 | 1 | 27 | 125 |

‡For conversion to metric range, see page 175. †Concentric, compressed and compact stranding.

COPPER COMPRESSION TERMINALS • TYPES HBBLU

Heavy duty



The heavy duty 2 hole compression lugs are made of heavy wall, seamless, one piece, pure copper tubing. Generous entrance chamfer provides easy cable insertion. End of cable is protected from environmental hazards by completely closed transitions. The heavy wall tubing gives insurance of heavy duty loads.

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Burdny Die Index No. |
|----------------|----------------------|----------------------|--------------------------------|-----|--------------------------------|----|--------------------------------|----|----------------------|
| | | | L | | W | | T | | |
| | | | in | mm | in | mm | in | mm | |
| HBBLU-1/0D | 1/0 Str. (7, 19) | .375 | 5 ³ / ₈ | 137 | 7 ⁷ / ₈ | 22 | 1 ¹ / ₈ | 3 | 165, 287 |
| HBBLU-2/0D | 2/0 Str. (7, 19, 37) | .447 | 5 ¹ / ₄ | 133 | 1 ⁵ / ₁₆ | 24 | 1 ¹ / ₄ | 6 | 166, 206 |
| HBBLU-3/0D | 3/0 Str. (7, 19) | .470 | 5 ⁵ / ₁₆ | 135 | 1 ¹ / ₁₆ | 27 | 1 ¹ / ₄ | 6 | 167, 207, 211, 256 |
| HBBLU-4/0D | 4/0 Str. (7, 12, 19) | .528 | 5 ¹ / ₄ | 133 | 1 ⁷ / ₃₂ | 31 | 5 ⁵ / ₁₆ | 8 | 168, 208 |
| HBBLU-025D | 250 MCM (7, 19, 37) | .575 | 5 ⁵ / ₈ | 143 | 1 ³ / ₈ | 35 | 3 ³ / ₈ | 9 | 169 |
| HBBLU-030D | 300 MCM (19, 37) | .642 | 5 ¹ / ₂ | 140 | 3 | 76 | 3 ³ / ₈ | 9 | 170 |
| HBBLU-035D | 350 MCM (12, 19, 37) | .682 | 6 ¹ / ₂ | 165 | 1 ⁵ / ₈ | 41 | 1 ¹ / ₂ | 13 | 267 |
| HBBLU-040D | 400 MCM (19, 37) | .728 | 6 ³ / ₄ | 171 | 1 ³ / ₄ | 44 | 1 ¹ / ₂ | 13 | 209 |
| HBBLU-050D | 500 MCM (19, 37) | .815 | 6 ¹ / ₂ | 165 | 1 ⁷ / ₈ | 48 | 1 ¹ / ₂ | 13 | 210 |
| HBBLU-060D | 600 MCM (37, 61) | .893 | 6 ³ / ₈ | 162 | 2 ¹ / ₈ | 54 | 5 ⁵ / ₈ | 16 | 576 |
| HBBLU-075D | 750 MCM (37, 61) | .999 | 7 ¹ / ₄ | 184 | 2 ¹ / ₄ | 57 | 5 ⁵ / ₈ | 16 | 627 |
| HBBLU-100D | 1000 MCM (61) | 1.153 | 7 ⁵ / ₈ | 194 | 2 ³ / ₄ | 70 | 3 ³ / ₄ | 19 | 345 |

‡For conversion to metric range, see page 175.

ADDITIONAL WIRE SIZE RECOMMENDATIONS FOR COPPER PENN-CRIMPS® TYPES BCU, BCU-FL, BBCU, BBCU-FL, BLU, BLU-FL, BBLU, BBLU-FL

| Copper Connector Catalog Type Splices and Lugs (1 & 2 Hole) | UL SF® | | UL SF® | | UL SF® | | UL SF® | | UL SF® | | UL SF® | | UL SF® | |
|-------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------|------------|------------------|--------|--|--------|--|
| | Class B & C Building Wire Cu Cable Size & Stranding | Class I Flexible Cable (#24AWG Cu Strands) Size & Stranding | Class K Weld Cable (#30AWG Cu Strands) Size & Stranding | Diesel Locomotive Cable (#24AWG 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 (#34AWG Cu Strands) Size & Stranding | Metric Cable Wire Size Range Copper Cable Only Metric Size & Dia. | Navy Cable | Air Craft | | | | |
| BCU-BBCU-BLU-BBLU-8 | #8 AWG 7 or 19 | #8 AWG 41/24 | None | None | *#8 AWG 133/.0111 | *#8 AWG 49/.0184 | #8 AWG 420/34 | 6mm ² 3.21mm | #23 | AN-8 | | | | |
| BCU-BBCU-BLU-BBLU-6 | #6 AWG 7 or 19 | #6 AWG 63/24 | None | None | *#7 AWG 133/.0125 | #7 AWG 49/.0206 | #7 AWG 532/34 | 10mm ² 4.12mm | None | None | | | | |
| BCU-BBCU-BLU-BBLU-5 | #5 AWG 7 or 19 | None | None | None | *#6 AWG 133/.0140 | *#6 AWG 49/.0231 | #6 AWG 665/34 | 16mm ² 5.18mm | #30 | AN-6 | | | | |
| BCU-BBCU-BLU-BBLU-4 | #4 AWG 7 or 19 | None | None | None | *#5 AWG 133/.0158 | *#5 AWG 49/.0260 | #5 AWG 836/34 | *20mm ² 5.72mm | #40 | None | | | | |
| BCU-BBCU-BLU-BBLU-3 | #3 AWG 7 or 19 | #4 AWG 105/24 | #4 AWG 420/30 | #4 AWG 105/24 | #4 AWG 133/.0177 | #4 AWG 49/.0292 | #4 AWG 1064/34 | 25mm ² 6.60mm | #50 | AN-4 | | | | |
| BCU-BBCU-BLU-BBLU-2 | #2 AWG 7 or 19 | None | None | None | *#3 AWG 133/.0199 | *#3 AWG 49/.0328 | #3 AWG 1323/34 | *30mm ² 7.01mm | #60 | None | | | | |
| BCU-BBCU-BLU-BBLU-1 | #1 AWG 19 or 37 | #2 AWG 161/24 | #2 AWG 665/30 | #2 AWG 150/24 | #2 AWG 133/.0223 | #2 AWG 49/.0368 | #2 AWG 1666/34 | *40mm ² 8.20mm | #75 | AN-2 | | | | |
| BCU-BBCU-BLU-BBLU-1/0 | 1/0 AWG 19 or 37 | None | #1 AWG 836/30 | #1 AWG 225/24 | #1 AWG 259/.0180 | #1 AWG 133/.0251 | #1 AWG 2107/34 | 50mm ² 9.27mm | #100 | AN-1 | | | | |
| BCU-BBCU-BLU-BBLU-2/0 | 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/.0202 | 1/0 AWG 133/.0282 | 1/0 AWG 2646/34 | 70mm ² 10.92mm | #125 | AN-1/0 | | | | |
| BCU-BBCU-BLU-BBLU-3/0 | 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/.0227 | 2/0 AWG 133/.0316 | None | *85mm ² 11.94mm | #150 | None | | | | |
| BCU-BBCU-BLU-BBLU-4/0 | 4/0 AWG 19 or 37 | None | 3/0 AWG 1666/30 | 3/0 AWG 450/24 | 3/0 AWG 259/.0255 | 3/0 AWG 133/.0355 | 2/0 AWG 3325/34 | 95mm ² 12.80mm | #200 | AN-2/0 AN-3/0 | | | | |
| BCU-BBCU-BLU-BBLU-025 | 250 MCM 37 or 61 | None | None | None | None | None | 3/0 AWG 4256/34 | 120mm ² 14.40mm | None | None | | | | |
| BCU-BBCU-BLU-BBLU-030 | 300 MCM 37 or 61 | 4/0 AWG 532/24 | 4/0 AWG 2107/30 | 4/0 AWG 550/24 | *4/0 AWG 259/.0286 | *4/0 AWG 133/.0399 | 4/0 AWG 5320/34 | 150mm ² 16.00mm | #300 | AN-4/0 | | | | |
| BCU-BBCU-BLU-BBLU-035 | 350 MCM 37 or 61 | None | None | 262 MCM 650/24 | *250 MCM 427/.0242 | *250 MCM 259/.0311 | None | *180mm ² 17.42mm | #350 | None | | | | |
| BCU-BBCU-BLU-BBLU-040 | 400 MCM 37 or 61 | None | None | 313 MCM 775/24 | 300 MCM 427/.0265 | 300 MCM 259/.0340 | 250 MCM 6384/34 | 185mm ² 17.80mm | #400 | None | | | | |
| BCU-BBCU-BLU-BBLU-045 | 450 MCM 37 or 61 | None | None | None | *350 MCM 427/.0286 | *350 MCM 259/.0368 | 300 MCM 7581/34 | None | None | None | | | | |
| BCU-BBCU-BLU-BBLU-050 | 500 MCM 37 or 61 | 350 MCM 882/24 | None | 373 MCM 925/24 | 400 MCM 427/.0306 | 400 MCM 259/.0393 | 350 MCM 8806/34 | 240mm ² 20.30mm | None | None | | | | |
| BCU-BBCU-BLU-BBLU-060 | 600 MCM 61 or 91 | None | None | 444 MCM 1100/24 | 450 MCM 427/.0325 | 450 MCM 259/.0417 | 400 MCM 10101/34 | 300mm ² 22.63mm | None | None | | | | |
| BCU-BBCU-BLU-BBLU-065 | 650 MCM 61 or 91 | 500 MCM 1225/24 | None | 535 MCM 1325/24 | 500 MCM 427/.0342 | 500 MCM 259/.0439 | 450 MCM 11396/34 | None | None | None | | | | |
| BCU-BBCU-BLU-BBLU-075 | 750 MCM 61 or 91 | None | None | 646 MCM 1600/24 | *550 MCM 703/.0280 *600 MCM 703/.0292 | *550 MCM 427/.0359 *600 MCM 427/.0375 | 500 MCM 12691/34 | None | None | None | | | | |
| BCU-BBCU-BLU-BBLU-080 | 800 MCM 61 or 91 | None | None | None | *650 MCM 703/.0304 | *650 MCM 427/.0390 *700 MCM 427/.0405 | 550 MCM 13664/34 | 400mm ² 26.1mm | None | None | | | | |
| BCU-BBCU-BLU-BBLU-100 | 1000 MCM 61 or 91 | 750 MCM 1862/24 | None | 777 MCM 1925/24 | *700 MCM 703/.0316 *750 MCM 703/.0327 | *750 MCM 427/.0419 *800 MCM 427/.0433 | 600 MCM 14945/34 650 MCM 16226/34 | 500mm ² 29.3mm | None | None | | | | |

*Not UL Listed

ALUMINUM PENN-CRIMPS® • TYPE BLUA

Crimp lugs for #6 stranded thru 1000 MCM copper or aluminum wire or cable

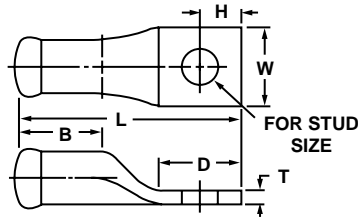


FIG. 1

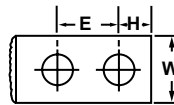


FIG. 2

Seamless, one piece, pure aluminum construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. The barrels are filled with Cual-Aid® and capped at factory to eliminate the need for separate application of Cual-Aid® to the conductor. Wire brushing of aluminum conductor is required. This assures a stable cool running joint. End of cable is protected from environmental hazards by completely closed transition.

Catalog number and conductor size marked on every piece to insure positive identification.

Can be installed with existing crimping tools.

Color coding conforms to industry requirements to insure proper connection/die selection and to provide for faster installation.

| Catalog Number | Cond. Range† | Color Code | Wire Dia. (in) ‡ | Stud Size | Fig. No. | Approximate Dimensions (in inches) | | | | | | | Crimping Tool Reference | | | | |
|----------------|--------------|------------|------------------|-----------|----------|------------------------------------|--------|---------|---------|-------|-------|--------|-------------------------|----------|------------|------------------------------|---|
| | | | | | | L | B | D | E | H | T | W | Alt. Tooling | | Penn-Union | | |
| | | | | | | | | | | | | | Burndy Index No. | T&B Die | PUC Dies | Pressure Setting TDY-1 TDY-U | |
| BLUA-8S• | 8 Str. | Blue | .146 | 1/4 | 1 | 1 9/16 | 9/16 | 5/8 | — | 1/4 | 1/8 | 1/2 | B-374 | TBM-5 | T-374* | 2 | |
| BLUA-6S | 6 Str. | Gray | .184 | 1/4 | 1 | 1 53/64 | 11/16 | 51/64 | — | 3/8 | 1/8 | 1/2 | B-346 | | T-346* | | |
| BLUA-6S2 | | | | 5/16 | 1 | — | — | — | — | — | | | | | | | |
| BLUA-4S3 | 4 Str. | Green | .232 | 1/4 | 1 | 1 57/64 | 7/8 | 51/64 | — | 25/64 | 11/64 | 19/32 | B-375 | | T-11/375 | | |
| BLUA-4S2 | | | | 5/16 | 1 | — | — | — | — | — | | | | | | | |
| BLUA-2S3 | 2 Str. | Pink | .292 | 1/4 | 1 | 1 29/32 | — | 23/32 | — | 11/32 | — | — | B-348 | T-12/348 | | | |
| BLUA-2S4 | | | | 5/16 | 1 | 1 31/32 | 7/8 | 25/32 | — | 3/8 | 7/32 | 23/32 | | | | | |
| BLUA-2S | | | | 3/8 | 1 | 1 23/32 | — | 7/16 | — | — | — | — | | | | | |
| BLUA-1S1 | 1 Str. | Gold | .332 | 1/4 | 1 | 2 11/64 | 7/8 | 55/64 | — | 25/64 | 15/64 | 25/32 | B-471 | T-471* | | | |
| BLUA-1S3 | | | | 5/16 | 1 | — | — | — | — | — | — | — | | | | | |
| BLUA-1S | | | | 3/8 | 1 | 2 17/32 | — | 7/16 | — | — | — | — | | | | | |
| BLUA-1S2 | | | | 1/2 | 1 | 2 33/64 | 29/32 | 1 3/8 | — | 11/16 | 11/64 | 25/32 | | | | | |
| BLUA-1D1 | | | | 1/2 | 2 | 4 3/64 | — | 2 29/32 | 1 3/4 | 9/16 | — | — | | | | | |
| BLUA-1/OS2 | 1/0 Str. | Tan | .375 | 1/4 | 1 | 2 3/32 | — | 25/32 | — | 11/32 | — | — | B-296 | 50 | T-296 | | |
| BLUA-1/OS3 | | | | 5/16 | 1 | 2 5/32 | — | 27/32 | — | 3/8 | — | — | | | | | |
| BLUA-1/OS | | | | 3/8 | 1 | 2 7/32 | — | 29/32 | — | 7/16 | — | — | | | | | |
| BLUA-1/OD1 | | | | 3/8 | 2 | 3 17/32 | 1 | 1 7/8 | 1 | 3/8 | 13/64 | 27/32 | | | | | |
| BLUA-1/OD2 | | | | 3/8 | 2 | 3 27/32 | — | 2 3/16 | 1 1/16 | 5/8 | — | — | | | | | |
| BLUA-1/OS1 | | | | 1/2 | 1 | 2 5/8 | — | 1 1/8 | — | 9/16 | — | — | | | | | |
| BLUA-1/OD3 | | | | 1/2 | 2 | 4 9/16 | — | 2 29/32 | 1 3/4 | 9/16 | — | — | | | | | |
| BLUA-2/OS4 | 2/0 Str. | Olive | .419 | 1/4 | 1 | 2 1/4 | — | 25/32 | — | 11/32 | — | — | B-297 | 54 | T-297 | | |
| BLUA-2/OS5 | | | | 5/16 | 1 | 2 5/16 | — | 27/32 | — | 3/8 | — | — | | | | | |
| BLUA-2/OS1 | | | | 3/8 | 1 | 2 5/8 | 1 3/32 | 1 13/64 | — | 5/8 | 1/4 | 15/16 | | | | | |
| BLUA-2/OD2 | | | | 3/8 | 2 | 3 3/8 | — | 1 7/8 | 1 | 3/8 | — | — | | | | | |
| BLUA-2/OS | | | | 1/2 | 1 | 2 5/8 | — | 1 5/32 | — | 9/16 | — | — | | | | | |
| BLUA-2/OD | | | | 1/2 | 2 | 4 21/32 | — | 2 29/32 | 1 3/4 | 9/16 | — | — | | | | | |
| BLUA-3/OS5 | | | | 3/0 Str. | Ruby | .470 | 5/16 | 1 | 2 19/32 | — | 27/32 | — | | | | 3/8 | — |
| BLUA-3/OS2 | 3/8 | 1 | 2 13/16 | | | | — | 1 1/16 | — | 7/16 | — | — | | | | | |
| BLUA-3/OD1 | 3/8 | 2 | 3 29/32 | | | | 1 1/4 | 1 7/8 | 1 | 3/8 | 9/32 | 1 1/16 | | | | | |
| BLUA-3/OS | 1/2 | 1 | 2 29/32 | | | | — | 1 5/32 | — | 9/16 | — | — | | | | | |
| BLUA-3/OD | 1/2 | 2 | 4 15/16 | | | | — | 2 29/32 | 1 3/4 | 9/16 | — | — | | | | | |
| BLUA-4/OS3 | 4/0 Str. | White | .528 | 5/16 | 1 | 2 21/32 | — | 27/32 | — | 3/8 | — | — | B-298 | 66 | T-298 | | |
| BLUA-4/OS5 | | | | 3/8 | 1 | 2 31/32 | — | 1 13/64 | — | 5/8 | — | — | | | | | |
| BLUA-4/OD2 | | | | 3/8 | 2 | 4 7/32 | 1 5/16 | 2 1/16 | 1 | 7/16 | 5/16 | 1 3/16 | | | | | |
| BLUA-4/OS | | | | 1/2 | 1 | 2 31/32 | — | 1 5/32 | — | 9/16 | — | — | | | | | |
| BLUA-4/OD | | | | 1/2 | 2 | 5 1/16 | — | 2 29/32 | 1 3/4 | 9/16 | — | — | | | | | |
| BLUA-4/OS4 | | | | 5/8 | 1 | 3 9/32 | — | 1 15/32 | — | 23/32 | — | — | | | | | |

*Not UL Listed. ‡For conversion to metric range, see page 175. *Consult factory for availability of dies. Not available at this time. †Concentric, compressed and compact stranding.

ALUMINUM PENN-CRIMPS® • TYPE BLUA

Continued from preceding page

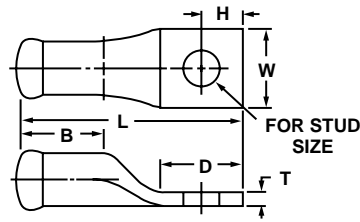


FIG. 1

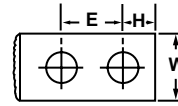


FIG. 2

BLUA LUGS ARE SUITABLE FOR USE AT VOLTAGES UP TO 35KV.

| Catalog Number | Cond. Range† | Color Code | Wire Dia. (in) ‡ | Stud Size | Fig. No. | Approximate Dimensions (in inches) | | | | | | | Crimping Tool Reference | | | | | |
|----------------|--------------|------------|------------------|-----------|----------|------------------------------------|---------|---------|-------|--------|--------|---------|-------------------------|---------|------------|------------------------------|---|--------|
| | | | | | | L | B | D | E | H | T | W | Alt. Tooling | | Penn-Union | | | |
| | | | | | | | | | | | | | Burndy Index No. | T&B Die | PUC Dies | Pressure Setting TDY-1 TDY-U | | |
| BLUA-025S2 | 250 MCM | Red | .575 | 3/8 | 1 | 3 | | 1 1/16 | — | 3/8 | | | B-324 | 71 | T-18/324 | 5 | 5 | |
| BLUA-025D1 | | | | 3/8 | 2 | 4 | | 2 1/16 | 1 | 7/16 | | | | | | | | |
| BLUA-025S | | | | 1/2 | 1 | 3 7/16 | 1 13/16 | 1 1/2 | — | 5/8 | | 1 1/32 | | | | | | 1 9/32 |
| BLUA-025D | | | | 1/2 | 2 | 5 3/16 | | 2 29/32 | 1 3/4 | 9/16 | | | | | | | | |
| BLUA-025S3 | | | | 5/8 | 1 | 3 7/16 | | 1 1/2 | — | 23/32 | | | | | | | | |
| BLUA-030S2 | 300 MCM | Blue | .634 | 3/8 | 1 | 3 7/16 | | 1 1/4 | — | 3/8 | | | B-470 | 76 | T-470* | 5 | 5 | |
| BLUA-030D1 | | | | 3/8 | 2 | 4 15/32 | | 2 3/8 | 1 | 7/16 | | | | | | | | |
| BLUA-030S1 | | | | 1/2 | 1 | 3 11/16 | 1 1/2 | 1 1/2 | — | 1 1/16 | 3/8 | 1 3/8 | | | | | | |
| BLUA-030D | | | | 1/2 | 2 | 5 5/16 | | 2 29/32 | 1 3/4 | 9/16 | | | | | | | | |
| BLUA-030S | | | | 5/8 | 1 | 3 21/32 | | 1 15/32 | — | 23/32 | | | | | | | | |
| BLUA-035D1 | 350 MCM | Brown | .682 | 3/8 | 2 | 4 7/16 | | 2 1/16 | 1 | 7/16 | | | B-299 | 87 | T-20/299 | 7 | 7 | |
| BLUA-035S1 | | | | 1/2 | 1 | 3 7/8 | 1 5/8 | 1 1/2 | — | 1 1/16 | 3/8 | 1 17/32 | | | | | | |
| BLUA-035D | | | | 1/2 | 2 | 5 9/32 | | 2 29/32 | 1 3/4 | 9/16 | | | | | | | | |
| BLUA-035S | | | | 5/8 | 1 | 3 7/8 | | 1 1/2 | — | 1 1/16 | | | | | | | | |
| BLUA-040D1 | 400 MCM | Green | .728 | 3/8 | 2 | 5 3/32 | | 2 1/16 | 1 | 7/16 | | | B-472 | 94 | T-22/472 | 7 | 7 | |
| BLUA-040S2 | | | | 1/2 | 1 | 4 17/32 | | 1 1/2 | — | 1 1/16 | | | | | | | | |
| BLUA-040D2 | | | | 1/2 | 2 | 6 13/32 | 1 13/16 | 3 3/8 | 1 3/4 | 3/4 | 7/16 | 1 5/8 | | | | | | |
| BLUA-040S3 | | | | 5/8 | 1 | 4 27/32 | | 1 13/16 | — | 7/8 | | | | | | | | |
| BLUA-040D | | | | 5/8 | 2 | 6 1/4 | | 3 7/32 | 1 3/4 | 23/32 | | | | | | | | |
| BLUA-050D1 | 500 MCM | Pink | .815 | 3/8 | 2 | 4 7/8 | | 2 1/16 | 1 | 7/16 | | | B-300 | 106 | T-300 | 9 | 9 | |
| BLUA-050S2 | | | | 1/2 | 1 | 4 5/16 | | 1 1/2 | — | 1 1/16 | | | | | | | | |
| BLUA-050D2 | | | | 1/2 | 2 | 6 3/16 | 1 7/8 | 3 3/8 | 1 3/4 | 3/4 | 15/32 | 1 13/16 | | | | | | |
| BLUA-050S3 | | | | 5/8 | 1 | 4 5/8 | | 1 13/16 | — | 7/8 | | | | | | | | |
| BLUA-050D | | | | 5/8 | 2 | 6 1/32 | | 3 7/32 | 1 3/4 | 23/32 | | | | | | | | |
| BLUA-060D1 | 600 MCM | Black | .893 | 3/8 | 2 | 5 3/16 | | 2 1/16 | 1 | 7/16 | | | B-473 | 115 | T-473 | 9 | 9 | |
| BLUA-060D2 | | | | 1/2 | 2 | 6 11/32 | 2 | 3 7/32 | 1 3/4 | 3/4 | 32/64 | 1 31/32 | | | | | | |
| BLUA-060S1 | | | | 5/8 | 1 | 5 5/32 | | 2 1/32 | — | 1 | | | | | | | | |
| BLUA-060D | | | | 5/8 | 2 | 6 11/32 | | 3 7/32 | 1 3/4 | 23/32 | | | | | | | | |
| BLUA-075D1 | 750 MCM | Red | .999 | 1/2 | 2 | 6 13/32 | | 3 7/32 | 1 3/4 | 3/4 | | | B-301 | 130 | — | 9 | 9 | |
| BLUA-075S1 | | | | 5/8 | 1 | 5 3/8 | 2 1/4 | 2 3/16 | — | 1 | 9/16 | 2 3/16 | | | | | | |
| BLUA-075D | | | | 5/8 | 2 | 6 13/32 | | 3 7/32 | 1 3/4 | 23/32 | | | | | | | | |
| BLUA-080D1 | 800 MCM | Gray | 1.031 | 1/2 | 2 | 7 1/8 | | 3 7/32 | 1 3/4 | 3/4 | | | B-474 | 140 | — | 9 | 9 | |
| BLUA-080S1 | | | | 5/8 | 1 | 6 13/32 | 2 5/16 | 2 1/2 | — | 1 | 19/32 | 2 1/4 | | | | | | |
| BLUA-080D | | | | 5/8 | 2 | 7 1/8 | | 3 7/32 | 1 3/4 | 23/32 | | | | | | | | |
| BLUA-100D2 | 1000 MCM | Brown | 1.153 | 1/2 | 2 | 7 1/16 | | 3 7/32 | 1 3/4 | 3/4 | | | B-302 | 150 | — | 9 | 9 | |
| BLUA-100S1 | | | | 5/8 | 1 | 6 23/32 | 2 9/16 | 2 1/2 | — | 1 | 1 1/16 | 2 1/2 | | | | | | |
| BLUA-100D | | | | 5/8 | 2 | 7 7/16 | | 3 7/32 | 1 3/4 | 23/32 | | | | | | | | |

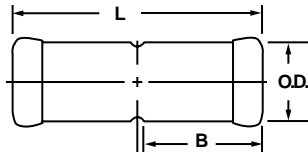
†For conversion to metric range, see page 175.

* Consult factory for availability of dies. Not available at this time.

‡Concentric, compressed and compact stranding.

ALUMINUM PENN-CRIMPS® • TYPE BCUA

Crimp splices for #6 stranded thru 1000 MCM copper or aluminum wire or cable



BCUA splices are suitable for use at voltages up to 35KV provided connector is taped in accordance with accepted practices. 5KV is maximum voltage level in all bare splice applications.

Seamless, one piece, pure aluminum construction with tin plating assures maximum conductivity. Generous entrance chamfer provides easy cable insertion. The barrels are filled with Cual-Aid® and capped at factory to eliminate the need for separate application of Cual-Aid® to the conductor. Wire brushing of aluminum conductor is required.

This assures a stable, cool running joint. Positive cable stops insure proper insertion.

Catalog number and conductor size marked on every piece to insure positive identification.

Can be installed with existing crimping tools.

Color coding conforms to industry requirements to insure proper connection/die selection and to provide for faster installation.

| Catalog Number | Conductor Range† | Color Code | Wire Diam (in) ‡ | Approximate Dimensions (in inches) | | | Crimping Tool Reference | | | | |
|----------------|------------------|------------|------------------|------------------------------------|---------------------------------|---------------------------------|-------------------------|---------|------------|------------------|---|
| | | | | O.D. | B | L | Alt. Tooling | | Penn-Union | | |
| | | | | | | | Burndy Index No. | T&B Die | PUC Dies | Pressure Setting | |
| TDY-1 | TDY-U | | | | | | | | | | |
| BCUA-8• | 8 Str. | Blue | .146 | ¹⁹ / ₆₄ | ³ / ₄ | ^{1 3} / ₄ | B-374 | TBM-5 | T-374* | 2 | |
| BCUA-6 | 6 Str. | Gray | .184 | ¹¹ / ₃₂ | ³ / ₄ | ^{1 5} / ₈ | B-346 | | T-346* | | |
| BCUA-4 | 4 Str. | Green | .232 | ⁷ / ₁₆ | ⁷ / ₈ | ^{1 7} / ₈ | B-375 | 50 | T-11/355 | 5 | 5 |
| BCUA-2 | 2 Str. | Pink | .292 | ¹⁷ / ₃₂ | ^{1 1} / ₈ | ^{2 3} / ₈ | B-348 | | T-12/348 | | |
| BCUA-1 | 1 Str. | Gold | .332 | ¹⁷ / ₃₂ | ^{2 9} / ₃₂ | ^{1 15} / ₁₆ | B-471 | | T-471* | | |
| BCUA-1/0 | 1/0 Str. | Tan | .375 | ¹⁹ / ₃₂ | 1 | ^{2 1} / ₈ | B-296 | | T-296 | | |
| BCUA-2/0 | 2/0 Str. | Olive | .419 | ¹¹ / ₁₆ | ^{1 3} / ₃₂ | ^{2 5} / ₁₆ | B-297 | 54 | T-297 | 2 | |
| BCUA-3/0 | 3/0 Str. | Ruby | .470 | ³ / ₄ | ^{1 1} / ₄ | ^{2 5} / ₈ | B-467 | 60 | T-467 | 7 | 7 |
| BCUA-4/0 | 4/0 Str. | White | .528 | ²⁷ / ₃₂ | ^{1 15} / ₁₆ | ^{2 3} / ₄ | B-298 | 66 | T-17* | | |
| BCUA-025 | 250 MCM | Red | .575 | ¹⁵ / ₁₆ | ^{1 13} / ₃₂ | ^{2 15} / ₁₆ | B-324 | 71 | T-18/324 | | |
| BCUA-030 | 300 MCM | Blue | .634 | 1 | ^{1 1} / ₂ | ^{3 1} / ₈ | B-470 | 76 | T-470* | | |
| BCUA-035 | 350 MCM | Brown | .682 | ^{1 1} / ₈ | ^{1 5} / ₈ | ^{3 3} / ₈ | B-299 | 87 | T-20/299 | | |
| BCUA-040 | 400 MCM | Green | .728 | ^{1 3} / ₁₆ | ^{1 13} / ₁₆ | ^{3 3} / ₄ | B-472 | 94 | T-22/472 | | |
| BCUA-050 | 500 MCM | Pink | .815 | ^{1 5} / ₁₆ | ^{1 7} / ₈ | ^{3 7} / ₈ | B-300 | 106 | T-300 | | |
| BCUA-060 | 600 MCM | Black | .893 | ^{1 7} / ₁₆ | 2 | ^{4 1} / ₈ | B-473 | 115 | T-473 | 9 | 9 |
| BCUA-075 | 750 MCM | Red | .999 | ^{1 19} / ₃₂ | ^{2 1} / ₄ | ^{4 5} / ₈ | B-301 | 130 | – | | |
| BCUA-080 | 800 MCM | Gray | 1.031 | ^{1 21} / ₃₂ | ^{2 15} / ₁₆ | ^{4 3} / ₄ | B-474 | 140 | – | | |
| BCUA-100 | 1000 MCM | Brown | 1.153 | ^{1 27} / ₃₂ | ^{2 9} / ₁₆ | ^{5 1} / ₄ | B-302 | 150 | – | | |

*Not UL Listed.

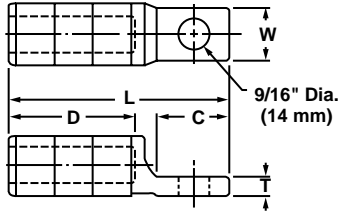
‡For conversion to metric range, see page 175.

* Consult factory for availability of dies. Not available at this time.

†Concentric, compressed and compact stranding.

ALUMINUM COMPRESSION TERMINALS • TYPES FKLA, FSLA & FULA SIDE FORMED

For aluminum, copper or ACSR wire or cable single hole



These terminals are of EC grade high purity aluminum. Prefilled with Cual-Aid® inhibitor and capped at factory. Wire brushing of aluminum conductor is required. End of cable is protected from environment hazards by completely closed transitions. Can be installed with existing crimping tools.

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | * Die Size | No. of Crimps | TDY-U Pressure Setting |
|----------------|--------------------------------------------|----------------------|------------------------|----|------------------|----|------------------|-----|-----|------|-------------------|----|-----------------------------------------------|---------------|------------------------|
| | | | C | | D | | L | | T | | W | | | | |
| | | in | in | mm | in | mm | in | mm | in | mm | in | mm | | | |
| FKLA-W8-S | 10 Str, 8 Sol | .116/.128 | | | | | | | | | | | BG, 5/8 or 243 | 3 | 2 |
| FKLA-W6-S | 8 Str, 6 Sol | .146/.162 | | | | | | | | | | | | | |
| FKLA-W4-S | 6 Str, 4 Sol, 4 Compact, 6 ACSR | .184/.214 | | | | | | | | | | | | | |
| FKLA-W2-S | 4 & 3 Str, 2 Sol, 2 Compact, 4 ACSR | .232/.271 | 1 ^{3/32} | 28 | 1 ^{3/8} | 35 | 3 | 76 | 1/4 | 6.35 | 7/8 | 22 | 840 or 249 | 3 | 4 |
| FKLA-C2-S | 2 Str, 1/0 Sol, 1 Compact, 2 ACSR | .292/.325 | | | | | | | | | | | | | |
| FKLA-R2-S | 1 Str, 2/0 Sol, 1/0 Compact, 1 ACSR | .332/.365 | | | | | | | | | | | | | |
| FKLA-010-S | 1/0 Str, 1/0 ACSR | .373/.398 | | | | | | | | | | | | | |
| FSLA-W2-S | 4 & 3 Str, 2 Sol, 2 Compact, 4 ACSR | .232/.271 | | | | | | | | | | | | | |
| FSLA-C2-S | 2 Str, 1/0 Sol, 1 Compact, 2 ACSR | .292/.325 | | | | | | | | | | | | | |
| FSLA-R2-S | 1 Str, 2/0 Sol, 1/0 Compact, 1 ACSR | .332/.365 | | | | | | | | | | | | | |
| FSLA-010-S | 1/0 Str, 3/0 Sol, 2/0 Compact, 1/0 ACSR | .373/.410 | | | | | | | | | | | | | |
| FSLA-013-S | 2/0 Str, 4/0 Sol, 3/0 Compact, 2/0 ACSR | .418/.460 | | | | | | | | | | | | | |
| FSLA-017-S | 3/0 Str, 4/0 Compact, 3/0 ACSR | .470/.502 | 1 ^{9/32} | 33 | 1 ^{3/8} | 35 | 3 ^{1/4} | 83 | 1/4 | 6.35 | 2 ^{9/32} | 23 | 1 ^{1/8} -2 or 316 or 705 | 3 | 5 |
| FSLA-025-S | 4/0 & 250 MCM, 250 & 300 Compact, 4/0 ACSR | .520/.575 | | | | | | | | | | | | | |
| FSLA-030-S | 300 MCM, 350 Compact, 266.8 18/1 ACSR | .609/.630 | | | | | | | | | | | | | |
| FULA-010-S | 1/0 Str, 3/0 Sol, 2/0 Compact, 1/0 ACSR | .373/.410 | | | | | | | | | | | | | |
| FULA-013-S | 2/0 Str, 4/0 Sol, 3/0 Compact, 2/0 ACSR | .418/.460 | | | | | | | | | | | | | |
| FULA-017-S | 3/0 Str, 4/0 Compact, 3/0 ACSR | .470/.502 | | | | | | | | | | | | | |
| FULA-025-S | 4/0 & 250 MCM, 250 & 300 Compact, 4/0 ACSR | .520/.575 | | | | | | | | | | | | | |
| FULA-030-S | 300 MCM, 350 Compact, 266.8 18/1 ACSR | .609/.630 | 1 ^{1/2} | 38 | 2 ^{3/8} | 60 | 4 ^{5/8} | 117 | 3/8 | 9.52 | 1 ^{1/4} | 32 | 1 ^{1/8} -2 or 316 or 705 | 3 | 5 |
| FULA-035-S | 350 MCM, 400 Compact, 336.4 18/1 | .659/.684 | | | | | | | | | | | | | |
| FULA-R033-S | 400 MCM, 500 Compact, 336.4 26/7 ACSR | .721/.736 | | | | | | | | | | | | | |
| FULA-045-S | 450 MCM, 397.5 18/1, 26/7 ACSR | .743/.783 | | | | | | | | | | | | | |
| FULA-050-S | 500 MCM, 477 18/1 ACSR | .813/.814 | | | | | | | | | | | | | |

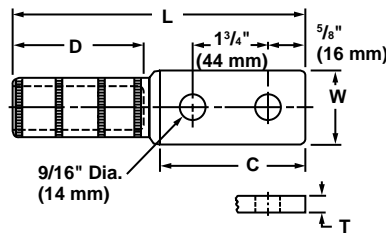
‡For conversion to metric range, see page 175.
 If terminal with hole for 3/8" stud is desired, suffix catalog number with "-1." Example: FKLA-W8-S-1.

ALUMINUM COMPRESSION TERMINALS • TYPES FKLA, FSLA & FULA SIDE FORMED

For aluminum, copper or ACSR wire or cable double hole



These terminals are of EC grade high purity aluminum. Prefilled with Cual-Aid® inhibitor and capped at factory. Wire brushing of aluminum conductor is required. End of cable is protected from environmental hazards by completely closed transitions. Can be installed with existing crimping tools.



| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | Die Size | No. of Crimps | TDY-U Pressure Setting | | | | | | | | | |
|----------------|---------------------------------------------|----------------------|------------------------|----|-------|----|--------|-----|------|----|----|----|------------------------|---------------|------------------------|----|---------|-----|-----|---|-------|----|---|---|
| | | | C | | D | | L | | T | | W | | | | | | | | | | | | | |
| | | in | in | mm | in | mm | in | mm | in | mm | in | mm | | | | | | | | | | | | |
| FKLA-W8-D | 10 Str, 8 Sol | .116/.128 | | | | | | | | | | | BG 5/8 or 243 | 3 | 2 | | | | | | | | | |
| FKLA-W6-D | 8 Str, 6 Sol | .146/.162 | | | | | | | | | | | | | | | | | | | | | | |
| FKLA-W4-D | 6 Str, 4 Sol, 4 Compact, 6 ACSR | .184/.214 | 3 3/8 | 86 | 1 1/2 | 38 | 5 7/16 | 138 | 5/16 | 8 | 1 | 25 | | | | | | | | | | | | |
| FKLA-W2-D | 4 & 3 Str, 2 Sol, 2 Compact, 4 ACSR | .232/.271 | | | | | | | | | | | 840 or 249 | 3 | 4 | | | | | | | | | |
| FKLA-C2-D | 2 Str, 1/0 Sol, 1 Compact, 2 ACSR | .292/.325 | | | | | | | | | | | | | | | | | | | | | | |
| FKLA-R2-D | 1 Str, 2/0 Sol, 1/0 Compact, 1 ACSR | .332/.365 | | | | | | | | | | | | | | | | | | | | | | |
| FKLA-010-D | 1/0 Str, 3/0 Sol, 2/0 Compact, 1/0 ACSR | .373/.410 | | | | | | | | | | | | | | | | | | | | | | |
| FKLA-010-D | 1/0 Str, 1/0 ACSR | .373/.398 | | | | | | | | | | | | | | | | | | | | | | |
| FSLA-W2-D | 4 & 3 Str, 2 Sol, 2 Compact, 4 ACSR | .232/.271 | | | | | | | | | | | 3 3/8 | 86 | 1 7/8 | 48 | 5 15/16 | 151 | 1/4 | 6 | 1 1/4 | 32 | 3 | 4 |
| FSLA-C2-D | 2 Str, 1/0 Sol, 1 Compact, 2 ACSR | .292/.325 | | | | | | | | | | | | | | | | | | | | | | |
| FSLA-R2-D | 1 Str, 2/0 Sol, 1/0 Compact, 1/0 ACSR | .332/.365 | | | | | | | | | | | | | | | | | | | | | | |
| FSLA-010-D | 1/0 Str, 3/0 Sol, 2/0 Compact, 1/0 ACSR | .373/.410 | | | | | | | | | | | | | | | | | | | | | | |
| FSLA-013-D | 2/0 Str, 4/0 Sol, 3/0 Compact, 2/0 ACSR | .418/.460 | | | | | | | | | | | | | | | | | | | | | | |
| FSLA-017-D | 3/0 Str, 4/0 Compact, 3/0 ACSR | .470/.502 | | | | | | | | | | | | | | | | | | | | | | |
| FSLA-025-D | 4/0 & 250 MCM, 250 & 300 Compact, 4/0 ACSR | .520/.575 | | | | | | | | | | | | | | | | | | | | | | |
| FSLA-030-D | 300 & 350 MCM, 350 Compact, 266.8 18/1 ACSR | .609/.630 | | | | | | | | | | | | | | | | | | | | | | |
| FSLA-035-D | 350 MCM, 336.4 18/1 ACSR | .681/.684 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-R2-D | 1 Str, 2/0 Sol, 1/0 Compact, 1 ACSR | .332/.365 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-010-D | 1/0 Str, 3/0 Sol, 2/0 Compact, 1/0 ACSR | .373/.410 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-013-D | 2/0 Str, 4/0 Sol, 3/0 Compact, 2/0 ACSR | .418/.460 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-017-D | 3/0 Str, 4/0 Compact, 3/0 ACSR | .470/.502 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-025-D | 4/0 & 250 MCM, 250 & 300 Compact, 4/0 ACSR | .520/.575 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-030-D | 300 MCM, 350 Compact, 266.8 18/1 ACSR | .609/.630 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-035-D | 350 MCM, 400 Compact, 336.4 18/1 ACSR | .659/.684 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-R033-D | 400 MCM, 500 Compact, 336.4 26/7 ACSR | .721/.783 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-045-D | 450 MCM, 397.5 18/1, 26/7 ACSR | .743/.783 | | | | | | | | | | | | | | | | | | | | | | |
| FULA-050-D | 500 MCM, 477 18/1 ACSR | .813/.814 | | | | | | | | | | | | | | | | | | | | | | |

‡For conversion to metric range, see page 175.

ULTRA-CRIMP®

RANGE-TAKING COMPRESSION SYSTEM

Standard Penn-Union Color-Coded Lugs & Splices + TDY Compression Tool = **ULTRA-CRIMP®**





Now you need just a few sizes of our standard color-coded lugs and splices to make all your connections...

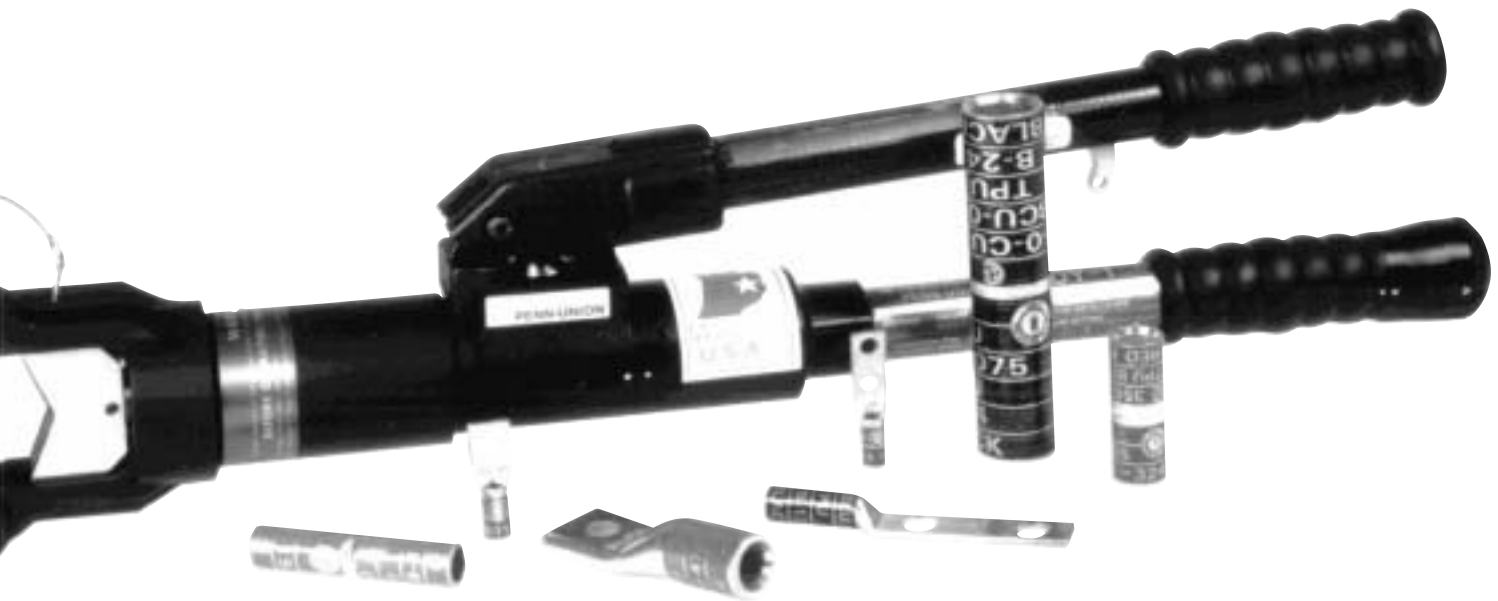
Take advantage of the unique design of the patented† TDY-1 dieless compression tool to save time and money on electrical connections. The TDY-1 makes UL Listed and CSA Certified range-taking compressions on Penn-Union's standard color-coded connectors.



There's no need to stock every size of lug and splice in order to cover the complete wire range from #4 Str. through 1000 MCM, including compact wires. There's no need for special, limited use connectors. Plus, the TDY-1 is dieless—you never have to buy or stock dies again.

Take a look at the chart to see how the ULTRA-CRIMP® Range-Taking Compression System will simplify your business. Just 4 sizes of aluminum lugs and 4 sizes of aluminum splices cover the entire range of copper and aluminum wire. And all the connections are UL Listed and CSA Certified!

| COPPER | |   |
|------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | CU 90°C |
| Connector Catalog Type Splices and Lugs (1 & 2 Hole) | Ultra-Crimp® Wire Size Range* Copper Cable Only Including Compact 'CU' | |
| BCU-4 & BLU-4 BBCU-4 & BBLU-4 | 4 Str. | |
| BCU-3 & BLU-3 BBCU-3 & BBLU-3 | 3 Str. - 4 Str. | |
| BCU-2 & BLU-2 BBCU-2 & BBLU-2 | 2 Str. - 4 Str. | |
| BCU-1 & BLU-1 BBCU-1 & BBLU-1 | 1 Str. - 4 Str. | |
| BCU-1/0 & BLU-1/0 BBCU-1/0 & BBLU-1/0 | 1/0 Str. - 4 Str. | |
| BCU-2/0 & BLU-2/0 BBCU-2/0 & BBLU-2/0 | 2/0 Str. - 4 Str. | |
| BCU-3/0 & BLU-3/0 BBCU-3/0 & BBLU-3/0 | 3/0 Str. | |
| BCU-4/0 & BLU-4/0 BBCU-4/0 & BBLU-4/0 | 4/0 Str. - 3/0 Str. | |
| BCU-025 & BLU-025 BBCU-025 & BBLU-025 | 250 MCM - 3/0 Str. | |
| BCU-030 & BLU-030 BBCU-030 & BBLU-030 | 300 MCM | |
| BCU-035 & BLU-035 BBCU-035 & BBLU-035 | 350 MCM - 300 MCM | |
| BCU-040 & BLU-040 BBCU-040 & BBLU-040 | 400 MCM - 300 MCM | |
| BCU-050 & BLU-050 BBCU-050 & BBLU-050 | 500 MCM | |
| BCU-060 & BLU-060 BBCU-060 & BBLU-060 | 600 MCM - 500 MCM | |
| BCU-065 & BLU-065 BBCU-065 & BBLU-065 | 650 MCM - 500 MCM | |
| BCU-075 & BLU-075 BBCU-075 & BBLU-075 | 750 MCM - 500 MCM | |

†U.S. Patent No. 4,604,890
Canadian Patent No. 1,212,528



| TDY-U PRESSURE SETTING | TDY-1 PRESSURE SETTING | ALUMINUM   AL9CU | |
|---------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| | | Connector Catalog Type Splices and Lugs (1 & 2 Hole) | Ultra-Crimp® Wire Size Range* AL or CU Cable Including Compact 'AL9CU' |
| DO NOT USE TDY-U IN THIS RANGE | 2 | BCUA-4 & BLUA-4 | 4 Str. |
| | | BCUA-2 & BLUA-2 | 2 Str. - 4 Str. |
| | | BCUA-1 & BLUA-1 | 1 Str. - 4 Str. |
| | | BCUA-1/0 & BLUA-1/0 | 1/0 Str. - 4 Str. |
| | | BCUA-2/0 & BLUA-2/0 | 2/0 Str. - 4 Str. |
| 5 | 5 | BCUA-3/0 & BLUA-3/0 | 3/0 Str. |
| | | BCUA-4/0 & BLUA-4/0 | 4/0 Str. - 3/0 Str. |
| | | BCUA-025 & BLUA-025 | 250 MCM - 3/0 Str. |
| | | BCUA-030 & BLUA-030 | 300 MCM - 3/0 Str. |
| | | BCUA-035 & BLUA-035 | 350 MCM - 3/0 Str. |
| 7 | 7 | BCUA-040 & BLUA-040 | 400 MCM |
| | | BCUA-050 & BLUA-050 | 500 MCM - 400 MCM |
| 9 | 9 | BCUA-060 & BLUA-060 | 600 MCM |
| | | BCUA-075 & BLUA-075 | 750 MCM - 600 MCM |
| | | BCUA-080 & BLUA-080 | 800 MCM - 600 MCM |
| | | BCUA-100 & BLUA-100 | 1000 MCM - 600 MCM |

*Warning: Ultra-Crimp® Compression System is only recommended for the above designated conventional Penn-Union connectors that are properly installed with the Penn-Union TDY-U or TDY-1 dieless compression tool. Any other combination of crimping tools and/or connectors shall be at the complete *risk* and *responsibility* of the installer.

DIELESS MODEL TDY-1 HYDRAULIC HAND TOOL



A unique pressure selection control on tool handle permits one of four hydraulic pressure settings to be used, allowing tool to crimp #4 AWG to 750 MCM copper connectors and #4 AWG to 1000 MCM aluminum connectors *without changing dies*. (See chart below for proper pressure settings to use on Penn-Union color-coded connectors)

Two speed hydraulic pump unit rapidly advances the built-in dies into contact with the connector and then automatically shifts into the crimping mode to complete the connection.

Exerts 12 tons of force. Weighs 13½ lbs. The tool head rotates 180° to provide for easy accessibility in confined working areas. The hinged head allows for easy insertion and removal of in-line splices.

The permanent dies are retracted by pulling down on the trigger release and completing another short stroke.

The tool has fiberglass handles and comes complete with steel carrying case.

CUAD-1000 adaptor available for installation of 1000 MCM color-coded copper connectors.

| TDY-1 Pressure Setting Chart | | | | |
|----------------------------------------------------------|------------------|----------------|----------------|-----------------|
| Connector Type Color Coded Series | Pressure Setting | | | |
| | 2 | 5 | 7 | 9 |
| Aluminum Connectors BLUA & BCUA Type Al & Cu Cable | 4 - 2/0 | 3/0-350 MCM | 400-500 MCM | 600-1000 MCM |
| Copper Connectors BLU & BCU Type Cu Cable Only | 4 - 2/0 | 3/0-250 MCM | 300-400 MCM | 500-750 MCM |
| TP & TPO | 6-1/0 | 2/0-350 MCM | 400-500 MCM | 600-750 MCM |



U.S. Patent No. 4,604,890
 Canadian Patent No. 1,212,528

CALIBRATION KIT FOR TDY-1

36 aluminum test slugs with a Go/No Go gauge which can be used at pressure setting #2 to give a quick check to determine that tool is in calibration. Catalog Number: CALKIT-1

TDY-U DIELESS UNIVERSAL TOOL



One tool does it all...without dies!

TDY-U Hydraulic Hand Tool

- Expands traditional hand tool range to 1000 MCM aluminum
- Hydraulic hold feature eliminates need to fully retract between crimps
- Ultra-Crimp® range-taking capacity on color coded connectors 3/0 to 1000 MCM aluminum, 3/0 to 750 MCM copper
- Wide compression head requires fewer crimps
- Variable pressure setting requires fewer strokes
- Hinged head for splices up to 1000 MCM partial tension splices
- Head rotates 180°
- Two-speed hydraulic pump for rapid ram advance
- Delivers up to 14 tons of force
- Light weight (14 lbs.)
- Steel carrying case
- Optional PVC coated head for protection against brush contact only

| TDY-U Installs the Following Connectors: | | | | | |
|----------------------------------------------------------------------------|----------------------------------|------------------------------------|--------------------------------------|---------------------------------------|------------------------------------------------------------|
| Connector Type Utility Series | Pressure Setting | | | | |
| | 2 | 4 | 5 | 7 | 9 |
| Common O.D. Aluminum Partial Tension Lugs and Splices | .640 O.D. 5/8 BG Die | .906 O.D. .840 249 Die | 1.152 O.D. 1 1/8 316 Die | 1.375 O.D. 1 5/16 317 Die | 1.600 & 1.835 O.D. 1 1/2 & 1 3/4 301 & 302 Die |
| Aluminum H-Taps O&D 7 Connector Prog. and Designated N-Size | | O, D & D3 Die | | KN-R54 KN-R55 NB50040 NB500 | |
| Copper H-Taps | | CST, CDT B,C,O,D Die | CST-309 CDT-309 | | |
| Copper C-Taps | C-Taps BG Die | C-Taps C Die | C-Taps O, D3 Die | | |
| Color Coded Copper Conn. BLU, BBLU, BCU & BBCU* Copper Cable Only | | | 3/0-250 MCM | 300-400 MCM | 500-750 MCM |
| Color Coded Aluminum Connectors BLUA & BCUA* Aluminum & Copper Cable | 1/0-2/0 | | 3/0-350 MCM | 400-500 MCM | 600-1000 MCM |

*UL Listed and CSA Certified.

U.S. PATENT 4,604,890
 CAN. PATENT 1212528

TDY-1R AND TDY-UR REMOTE POWERED DIELESS COMPRESSION TOOLS

Electric pumps add push button convenience to Penn-Union's TDY-1 and TDY-U



Penn-Union's TDY-UR and TDY-1R remote powered dieless compression tools lets you make a full range of connections with the touch of a button.

Powered by a choice of two remote electric pumps, the TDY-UR and TDY-1R consist of the tool head, a 10 foot dielectric hose, a pendant switch and a 1 horsepower motor pump.

CHOOSE FROM TWO PUMP SIZES

You can select a three quart or two gallon reservoir pump to power the TDY-UR or TDY-1R. The three quart model is recommended for intermittent use where portability is important. The two gallon pump is recommended for repetitive use—assembly line or bench applications. Both pumps are powered from any standard 110 volt outlet.

REMOTE POWER SAVES TIME AND MAKES INSTALLATION EASY

Connections are made quickly and accurately with the TDY-UR or TDY-1R. The TDY-UR and TDY-1R with remote pumps offer you the full installation ranges of our hydraulic compression hand tools. Just press the pendant switch button to advance the ram. After the crimp is completed, the ram automatically retracts to prepare for the next compression. This enables you to keep down-time to a minimum in repair situations.

REMOTE HEADS PROVIDE GREATER FLEXIBILITY

Penn-Union's TDY-1R and TDY-UR have remote tool heads that are more maneuverable than hand tools. The lightweight, compact design allows the heads to fit into tight spaces where other tools can't reach. And, both compression heads flip open for easy installation of splices up to 1000 MCM.

| Catalog Number | Head Type | Reservoir Size | Hose |
|-----------------|-----------|----------------|------|
| TDY 1R (3 Qt.) | TDY-1 | 3 Qt. | 10' |
| TDY 1R (2 Gal.) | TDY-1 | 2 Gal. | 10' |
| TDY UR (3 Qt.) | TDY-U | 3 Qt. | 10' |
| TDY UR (2 Gal.) | TDY-U | 2 Gal. | 10' |

TDY-1R Installs the Following Connectors:

| Connector Type Color Coded Series | Pressure Setting | | | |
|----------------------------------------------------------|------------------|------------------|------------------|-------------------|
| | 2 | 5 | 7 | 9 |
| Aluminum Connectors BLUA & BCUA Type Al & Cu Cable | 4 - 2/0 | 3/0 - 350 MCM | 400 - 500 MCM | 600 - 1000 MCM |
| Copper Connectors BLU & BCU Type Cu Cable Only | 4 - 2/0 | 3/0 - 250 MCM | 300 - 400 MCM | 500 - 750 MCM |
| TP & TPO | 6 - 1/0 | 2/0 - 350 MCM | 400 - 500 MCM | 600 - 750 MCM |

TDY-UR Installs the Following Connectors:

| Connector Type Utility Series | Pressure Setting | | | | |
|----------------------------------------------------------------------------|------------------|-----------------------------------|------------------------|--------------------------------------|-----------------|
| | 2 | 4 | 5 | 7 | 9 |
| Common O.D. | .640 | .906 | 1.152 | 1.375 | 1.600 & 1.835 |
| Aluminum | O.D. | O.D. | O.D. | O.D. | O.D. |
| Partial Tension | 5/8 | .840 | 1 1/8 | 1 5/16 | 1 1/2 & 1 3/4 |
| Lugs and Splices | BG Die | 249 Die | 316 Die | 317 Die | 301 & 302 Die |
| Aluminum H-Taps O&D 7 Connector Prog. and Designated N-Size | | O, D & D3 Die | | KN-R54 KN-R55 NB50040 NB500 | |
| Copper H-Taps | | CST, CDT, B, C, O, D Die | CST-309 CDT-309 | | |
| Copper C-Taps | C-Taps BG Die | C-Taps C Die | C-Taps O, D3 Die | | |
| Color Coded Copper Conn. BLU, BBLU, BCU & BBCU* Copper Cable Only | | | 3/0-250 MCM | 300-400 MCM | 500-750 MCM |
| Color Coded Aluminum Connectors BLUA & BCUA* Aluminum & Copper Cable | 1/0-2/0 | | 3/0-350 MCM | 400-500 MCM | 600-1000 MCM |

*UL Listed and CSA Certified

12-TON HYDRAULIC COMPRESSION HAND TOOL MODEL TPU-12B



Die Sets

| Penn-Union Die Set Cat. No. | Burndy Index | Burndy Die Set Cat. No. | T & B Index | Color Code | Range |
|-----------------------------|--------------|-------------------------|-------------|------------|------------------------|
| T-10 | 10 | U2CRT | 33 | Brown | #2 CU |
| T-11/375 | 11 375 | U1CRT U4CABT | 37 | Green | #1 CU #4 AL |
| T-12/348 | 12 348 | U25RT C2CABT | 42 | Pink | 1/0 CU #2 AL |
| T-13 | 13 | U26RT | 45 | Black | 2/0 CU |
| T-14 | 14 | U27RT | 50 | Orange | 3/0 CU |
| T-15 | 15 | U28RT | 54 | Purple | 4/0 CU |
| T-16 | 16 | U29RT | 62 | Yellow | 250MCM CU |
| T-298 | 298 | U28ART | 66H | White | 4/0 AL |
| T-18/324 | 18 324 | U31RT U29ART | 71H | Red | 350MCM CU 250MCM AL |
| T-20/299 | 20 299 | U34RT U31ART | 87H | Brown | 500MCM CU 350MCM AL |
| T-22/472 | 22 472 | U36RT U32ART | 94H | Green | 600MCM CU 400MCM AL |
| T-296 | 296 | U25ART | 50 | Tan | 1/0 AL |
| T-297 | 297 | U26ART | 54 | Olive | 2/0 AL |
| T-300 | 300 | U34ART | 99H | Pink | 500MCM AL |
| T-467 | 467 | U27ART | 60 | Ruby | 3/0 AL |
| T-473 | 473 | U36ART | 106H | Black | 750MCM CU 600MCM AL |

Die Sets (Utility)

| TPU Die Set | Burndy Index | Burndy Die Set | T & B Index | Color Code | Range |
|-------------|--------------|----------------|-------------|------------|-------|
| T-BG | BG | U-BG | 52 | — | — |
| T-O | O | U-O | O | — | — |
| T-D3 | D3 | U-D3 | D | — | — |
| T-N | N | U-N | N | — | — |
| T-249 | 249 | U-249 | 76 | — | — |
| T-316 | 316 | U-316 | 96 | — | — |
| T-317 | 317 | U-317 | 106A | — | — |

For crimping copper and aluminum connectors – exerts 12 tons of force, yet weighs under 15 pounds. C-shaped head allows wider connector range:

- splices (BCU-BCUA series) #6-400 MCM
- lugs (BLU series) #6-750 MCM
- lugs (BLUA series) #6-600 MCM
- press-on connectors (O, D and N die) #6-500 MCM

Easy installation with 180° swivel crimping head. Piston retracted by trigger mechanism on pumping handle.

Comes complete with steel carrying case. Accepts all standard dies for 12-ton tools. Also available with PVC insulated head (refer to factory).

INSTALLATION DIES FOR TPU-12B TOOL

Easy to match color-coded dot on die with wide, brilliantly-colored connector bands on Penn-Union's compression connectors. Dies are precision-made investment cast steel for longer life.



12-TON REMOTE POWERED HYDRAULIC COMPRESSION HEAD MODEL TPU-12BH



This remote version of Penn-Union's 12-ton compression tool easily installs the full range of copper and aluminum connectors. The TPU-12BH is compatible with all industry standard 10,000 PSI pumps and hoses, including the Penn-Union model TFP-10-2.

- Uses same dies as TPU-12B
- Can be used with Penn-Union T-type and competitive shell-type dies
- Accepts all standard dies for 12-ton tools

Also available with PVC insulated head (consult factory).

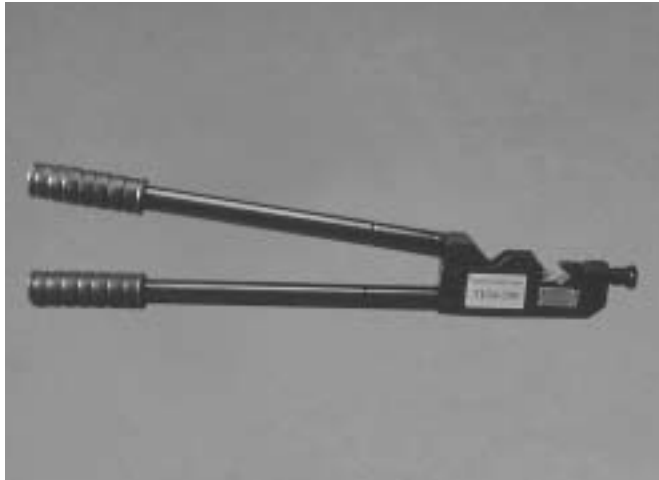
15-TON REMOTE POWERED HYDRAULIC COMPRESSION HEAD MODEL TPU-15BH



Compact and lightweight, the remote TPU-15BH tool handles compression grounding applications with a complete range of aluminum and copper connectors. The 4¹/₄" narrow width head is especially suited for underground network system use.

- Accommodates 8-1250 MCM aluminum and 1500 MCM copper connector range
- Compatible with all industry standard 10,000 PSI pumps and hoses, including the Penn-Union model TFP-10-2
- Accepts standard 15-ton dies
- Adaptor available for using standard 12-ton dies
- Quick-disconnect hydraulic couplers offer faster tool assembly and breakdown
- Includes steel carrying case

TDM-250 MECHANICAL COMPRESSION TOOL WITH BUILT-IN DIES



MORE ECONOMICAL

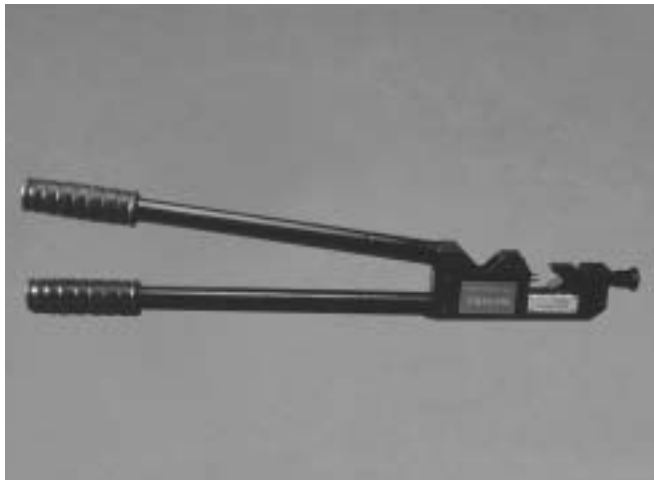
- Dieless - no dies to buy or lose
- Widest Range Available - crimps #8-250 MCM AL or CU
- Costs less than expensive hydraulic tools
- Quality Construction - all-steel, durable construction
- Five Years Manufacturer's Warranty for replacement or service

MORE CONVENIENT TO USE

- Unique handle design - provides increased leverage. At 250 MCM, the TDM-250 requires less handle load than conventional 250 MCM tools require at 250 MCM.
- No dies to change or lose
- 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 - convenient in confined areas
- Easiest Bench Use - machined flat head surface allows you to stand tool freely in working position

| Catalog Number | Wire Range |
|----------------|-----------------------------------------------|
| TDM-250 | #8 - 250 MCM CU #8 - 250 MCM AL |
| TDM-250XF | #8 - 4/0 Extra Flexible CU #8 - 250 MCM CU |

TDM-500 DIELESS MECHANICAL COMPRESSION TOOL



MORE ECONOMICAL

- Dieless - no dies to buy or lose
- Widest Range Available - crimps #8-500 MCM AL or CU
- Costs less than expensive hydraulic tools
- Quality Construction - all-steel, durable construction
- Five Years Manufacturer's Warranty for replacement or service

MORE CONVENIENT TO USE

- Unique handle design - provides increased leverage. At 500 MCM, the TDM-500 requires less handle load than conventional 250 MCM tools require at 250 MCM.
- No dies to change or lose
- 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 - convenient in confined areas
- Easiest Bench Use - machined flat head surface allows you to stand tool freely in working position

| Catalog Number | Wire Range |
|----------------|------------------------------------|
| TDM-500 | #8 - 500 MCM CU #8 - 500 MCM AL |

HOW TO SELECT THE PROPER PENN-CRIMP

CATALOG NO.
 EXAMPLE

R
 TONGUE

4
 BARREL
 SIZE

B
 WIRE
 RANGE

6
 STUD SIZE

S
 SPECIAL

TONGUE

SEE GENERAL INDEX FOR LETTER CODE

1 - BUTTED SEAM

PURE ELECTROLYTIC COPPER, ANNEALED, ELECTRO-TIN PLATED FOR CORROSION RESISTANCE, DESIGNED WITH DEEP INTERNAL SERRATIONS FOR FIRM WIRE GRIP.

2 - BRAZED SEAM

SAME AS TYPE 1 EXCEPT WITH A BRAZED SEAM TO ASSURE MAXIMUM STRENGTH OF WIRE TERMINATIONS.

BARREL TYPE

4 - VINYL INSULATION

SAME AS TYPE 1 WITH A NEMA COLOR-CODED, FUNNELED, VINYL INSULATING SLEEVE WHICH WHEN CRIMPED, GRIPS THE WIRE INSULATION TO AVOID FLEXING AT POINT OF CRIMPS, UL RATED AT 90° C, 600 V.

4N - NYLON INSULATION NO BRASS SLEEVE

SAME AS TYPE 1 WITH COLOR-CODED NYLON INSULATING SLEEVE WITHOUT BRASS SLEEVE. UL RATED AT 105° C, 600 V.

6 - NYLON INSULATION BRASS SLEEVE

SAME AS TYPE 1 WITH NEMA COLOR CODED, NYLON INSULATING SLEEVE OR OVER A TIN PLATED BRASS SLEEVE WHICH OFFERS MAXIMUM CRIMP STRENGTH WHERE EXTREME VIBRATION AND FLEXING ARE ENCOUNTERED. UL RATED AT 105° C, 600 V.

7 - SEAMLESS TUBE

PURE ELECTROLYTIC COPPER, SEAMLESS, ANNEALED AND ELECTRO-TIN PLATED FOR EXTRA STRENGTH IN A CRIMP

8 - NYLON INSULATION SEAMLESS TUBE

SAME AS TYPE 7 WITH A NYLON INSULATION FOR USE WHERE EXCESSIVE VIBRATION ENVIRONMENT ARE ENCOUNTERED.

9 - HI-TEMPERATURE

NICKEL-PLATED, COLD ROLLED STEEL, BUTTED SEAM TERMINALS FOR TEMPERATURES UP TO 900 DEGREES F.

WIRE RANGE

| | |
|-----------|-----------|
| 0 - 26-24 | D - 16-12 |
| A - 22-18 | E - 8 |
| B - 16-14 | F - 6 |
| C - 12-10 | G - 4 |

STUD SIZE

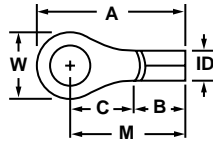
| | |
|-----------|---------------------|
| 0 - #0 | 56 - 5/16" |
| 2 - #2 | 38 - 3/8" |
| 4 - #4 | 50 - 1/2" |
| 6 - #6 | 110 - .110 NEMA TAB |
| 8 - #8 | 187 - .187 NEMA TAB |
| 10 - #10 | 250 - .250 NEMA TAB |
| 14 - 1/4" | |

SPECIAL

| |
|-------------------------------------|
| ___ BLANK ---STANDARD |
| S - SMALL/NARROW TONGUE |
| F - FULLY INSULATED |
| - HS PRE INSULATED HEAT SHRINKABLE. |

COPPER PENN-CRIMPS® • TYPE R1

Non-insulated ring terminal with butted seam

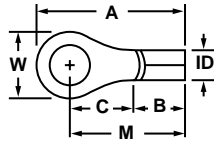
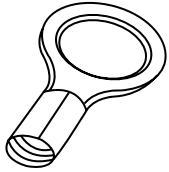


One piece, annealed, pure electrolytic copper construction with electro-tin plating for corrosion resistance. Deep internal serrations promote firm wire grip for maximum tensile strength. Inspection hole permits quick examination of the crimp. Generous entrance chamfer provides easy wire insertion. The combination of these features and the fact that our products exceed UL and CSA requirements guarantee a high quality connection.

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| R1A-6 | 22-18 | 6 | .030 | .69 | .31 | .28 | .54 | .250 | .070 |
| R1A-6S | 22-18 | 6 | .030 | .65 | .25 | .28 | .54 | .250 | .070 |
| R1A-8 | 22-18 | 8 | .030 | .69 | .31 | .28 | .54 | .250 | .070 |
| R1A-8S | 22-18 | 8 | .030 | .65 | .25 | .28 | .54 | .250 | .070 |
| R1A-10 | 22-18 | 10 | .030 | .69 | .31 | .28 | .54 | .250 | .070 |
| R1A-14 | 22-18 | 1/4 | .030 | .94 | .53 | .42 | .67 | .250 | .070 |
| R1A-14S | 22-18 | 1/4 | .030 | .90 | .46 | .42 | .67 | .250 | .070 |
| R1A-56 | 22-18 | 5/16 | .030 | .94 | .53 | .42 | .67 | .250 | .070 |
| R1A-56S | 22-18 | 5/16 | .030 | .90 | .46 | .42 | .67 | .250 | .070 |
| R1A-38 | 22-18 | 3/8 | .030 | .94 | .53 | .42 | .67 | .250 | .070 |
| R1B-6 | 16-14 | 6 | .030 | .69 | .31 | .28 | .54 | .250 | .090 |
| R1B-6S | 16-14 | 6 | .030 | .65 | .25 | .28 | .54 | .250 | .090 |
| R1B-8 | 16-14 | 8 | .030 | .69 | .31 | .28 | .54 | .250 | .090 |
| R1B-8S | 16-14 | 8 | .030 | .65 | .25 | .28 | .54 | .250 | .090 |
| R1B-10 | 16-14 | 10 | .030 | .69 | .31 | .28 | .54 | .250 | .090 |
| R1B-14 | 16-14 | 1/4 | .030 | .94 | .53 | .42 | .67 | .250 | .090 |
| R1B-14S | 16-14 | 1/4 | .030 | .90 | .46 | .42 | .67 | .250 | .090 |
| R1B-56 | 16-14 | 5/16 | .030 | .94 | .53 | .42 | .67 | .250 | .090 |
| R1B-56S | 16-14 | 5/16 | .030 | .90 | .46 | .42 | .67 | .250 | .090 |
| R1B-38 | 16-14 | 3/8 | .030 | .94 | .53 | .42 | .67 | .250 | .090 |
| R1C-6 | 12-10 | 6 | .040 | .72 | .38 | .28 | .54 | .250 | .130 |
| R1C-6S | 12-10 | 6 | .040 | .67 | .28 | .28 | .54 | .250 | .130 |
| R1C-8 | 12-10 | 8 | .040 | .72 | .38 | .28 | .54 | .250 | .130 |
| R1C-8S | 12-10 | 8 | .040 | .67 | .28 | .28 | .54 | .250 | .130 |
| R1C-10 | 12-10 | 10 | .040 | .72 | .38 | .28 | .54 | .250 | .130 |
| R1C-14 | 12-10 | 1/4 | .040 | .98 | .61 | .42 | .67 | .250 | .130 |
| R1C-14S | 12-10 | 1/4 | .040 | .94 | .53 | .42 | .67 | .250 | .130 |
| R1C-56 | 12-10 | 5/16 | .040 | .98 | .61 | .42 | .67 | .250 | .130 |
| R1C-56S | 12-10 | 5/16 | .040 | .94 | .53 | .42 | .67 | .250 | .130 |
| R1C-38 | 12-10 | 3/8 | .040 | .98 | .58 | .42 | .67 | .250 | .130 |
| R1D-6 | 16-12 | 6 | .050 | .68 | .38 | .24 | .50 | .250 | .115 |
| R1D-6S | 16-12 | 6 | .050 | .67 | .28 | .24 | .50 | .250 | .115 |
| R1D-8 | 16-12 | 8 | .050 | .68 | .38 | .24 | .50 | .250 | .115 |
| R1D-8S | 16-12 | 8 | .050 | .67 | .28 | .24 | .50 | .250 | .115 |
| R1D-10 | 16-12 | 10 | .050 | .68 | .38 | .24 | .50 | .250 | .115 |
| R1D-14 | 16-12 | 1/4 | .050 | .94 | .61 | .42 | .64 | .250 | .115 |
| R1D-14S | 16-12 | 1/4 | .050 | .91 | .53 | .42 | .64 | .250 | .115 |
| R1D-56 | 16-12 | 5/16 | .050 | .94 | .61 | .42 | .64 | .250 | .115 |
| R1D-38 | 16-12 | 3/8 | .050 | .94 | .61 | .42 | .64 | .250 | .115 |

COPPER PENN-CRIMPS • TYPE R2

Non-insulated ring terminal with brazed seam



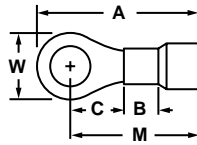
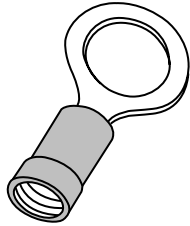
Same high quality construction as the Type R1 terminals, except the Type R2 features a brazed seam. Our unique process bonds the seam to assure the maximum strength in wire termination. This feature allows for crimping anywhere on the barrel circumference. Exceeds UL and CSA requirements, guaranteeing a high quality connection.

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|------|------|------|------|
| | | | | A | W | C | M | B | ID |
| R2A-6 | 22-18 | 6 | .030 | .69 | .31 | .28 | .54 | .250 | .070 |
| R2A-6S | 22-18 | 6 | .030 | .65 | .25 | .28 | .54 | .250 | .070 |
| R2A-8 | 22-18 | 8 | .030 | .69 | .31 | .28 | .54 | .250 | .070 |
| R2A-8S | 22-18 | 8 | .030 | .65 | .25 | .28 | .54 | .250 | .070 |
| R2A-10 | 22-18 | 10 | .030 | .69 | .31 | .28 | .54 | .250 | .070 |
| R2A-14 | 22-18 | 1/4 | .030 | .94 | .53 | .42 | .67 | .250 | .070 |
| R2A-14S | 22-18 | 1/4 | .030 | .90 | .46 | .42 | .67 | .250 | .070 |
| R2A-56 | 22-18 | 5/16 | .030 | .94 | .53 | .42 | .67 | .250 | .070 |
| R2A-56S | 22-18 | 5/16 | .030 | .90 | .46 | .42 | .67 | .250 | .070 |
| R2A-38 | 22-18 | 3/8 | .030 | .94 | .53 | .42 | .67 | .250 | .070 |
| R2B-6 | 16-14 | 6 | .030 | .69 | .31 | .28 | .54 | .242 | .090 |
| R2B-6S | 16-14 | 6 | .030 | .65 | .25 | .28 | .54 | .242 | .090 |
| R2B-8 | 16-14 | 8 | .030 | .69 | .31 | .28 | .54 | .250 | .090 |
| R2B-8S | 16-14 | 8 | .030 | .69 | .31 | .28 | .54 | .250 | .090 |
| R2B-10 | 16-14 | 10 | .030 | .69 | .31 | .28 | .54 | .250 | .090 |
| R2B-14 | 16-14 | 1/4 | .030 | .94 | .53 | .42 | .67 | .260 | .090 |
| R2B-14S | 16-14 | 1/4 | .030 | .90 | .46 | .42 | .67 | .260 | .090 |
| R2B-56 | 16-14 | 5/16 | .030 | .94 | .53 | .42 | .67 | .250 | .090 |
| R2B-56S | 16-14 | 5/16 | .030 | .90 | .46 | .42 | .67 | .250 | .090 |
| R2B-38 | 16-14 | 3/8 | .030 | .94 | .53 | .42 | .67 | .260 | .090 |
| R2C-6 | 12-10 | 6 | .040 | .72 | .38 | .28 | .54 | .250 | .130 |
| R2C-6S | 12-10 | 6 | .040 | .67 | .28 | .28 | .54 | .250 | .130 |
| R2C-8 | 12-10 | 8 | .040 | .72 | .38 | .28 | .54 | .250 | .130 |
| R2C-8S | 12-10 | 8 | .040 | .67 | .28 | .28 | .54 | .255 | .130 |
| R2C-10 | 12-10 | 10 | .040 | .72 | .38 | .28 | .54 | .255 | .130 |
| R2C-14 | 12-10 | 1/4 | .040 | .98 | .61 | .38 | .67 | .255 | .130 |
| R2C-14S | 12-10 | 1/4 | .040 | .94 | .53 | .38 | .67 | .255 | .130 |
| R2C-56 | 12-10 | 5/16 | .040 | .98 | .61 | .38 | .67 | .255 | .130 |
| R2C-56S | 12-10 | 5/16 | .040 | .94 | .53 | .38 | .67 | .255 | .130 |
| R2C-38 | 12-10 | 3/8 | .040 | .98 | .58 | .38 | .67 | .255 | .130 |
| R2E-8SS + | 8 | 8 | .050 | .91 | .38 | .34 | .72 | .375 | .165 |
| R2E-10 + | 8 | 10 | .050 | 1.07 | .60 | .45 | .78 | .375 | .165 |
| R2E-10S + | 8 | 10 | .050 | .96 | .47 | .34 | .72 | .375 | .165 |
| R2E-10SS + | 8 | 10 | .050 | .91 | .38 | .34 | .72 | .375 | .165 |
| R2E-14 + | 8 | 1/4 | .050 | 1.07 | .60 | .45 | .78 | .375 | .165 |
| R2E-14S + | 8 | 1/4 | .050 | .96 | .47 | .38 | .72 | .375 | .165 |
| R2E-56 + | 8 | 5/16 | .050 | 1.07 | .60 | .45 | .78 | .375 | .165 |
| R2E-38 + | 8 | 3/8 | .050 | 1.07 | .60 | .45 | .78 | .375 | .165 |
| R2E-50 *+ | 8 | 1/2 | .050 | 1.75 | .88 | .99 | 1.30 | .320 | .165 |
| R2F-10 + | 6 | 10 | .050 | 1.20 | .63 | .50 | .88 | .375 | .224 |
| R2F-10S + | 6 | 10 | .050 | 1.11 | .47 | .50 | .88 | .375 | .224 |
| R2F-14 + | 6 | 1/4 | .050 | 1.20 | .63 | .50 | .88 | .375 | .224 |
| R2F-14S + | 6 | 1/4 | .050 | 1.11 | .47 | .50 | .88 | .375 | .224 |
| R2F-56 + | 6 | 5/16 | .050 | 1.20 | .63 | .50 | .88 | .375 | .224 |
| R2F-38 + | 6 | 3/8 | .050 | 1.20 | .63 | .50 | .88 | .375 | .224 |
| R2F-50 *+ | 6 | 1/2 | .050 | 1.85 | .81 | 1.00 | 1.38 | .375 | .224 |
| R2G-10 + | 4 | 10 | .075 | 1.34 | .66 | .55 | .99 | .450 | .278 |
| R2G-10S + | 4 | 10 | .075 | 1.26 | .45 | .50 | .99 | .450 | .278 |
| R2G-14 + | 4 | 1/4 | .075 | 1.34 | .66 | .55 | .99 | .450 | .278 |
| R2G-14S + | 4 | 1/4 | .075 | 1.26 | .45 | .45 | .90 | .450 | .278 |
| R2G-56 + | 4 | 5/16 | .075 | 1.34 | .66 | .55 | .99 | .437 | .278 |
| R2G-38 + | 4 | 3/8 | .075 | 1.34 | .66 | .55 | .99 | .437 | .278 |
| R2G-50 *+ | 4 | 1/2 | .075 | 1.34 | .66 | .55 | .99 | .437 | .278 |

*Not UL listed +Not CSA listed

COPPER PENN-CRIMPS® • TYPE R4

Vinyl insulated ring terminal



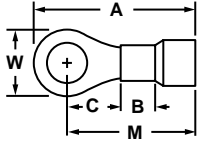
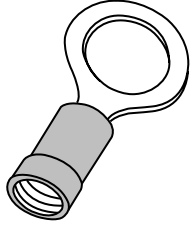
High quality Type R1 construction, butted seam, pre-insulated with a polyvinyl chloride (PVC) sleeve. Insulation is color coded to NEMA standards and flared for easy insertion of both stranded and solid wire. PVC insulation forms insulation support for the crimped wire to avoid flexing at the point of crimp. The performance and reliability of the Type R4 and other terminals, which exceeds UL and CSA requirements, proves that Penn-Crimps provide the preferred connection.

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|-----------------|-------------------|--------------------------|-----|------|------|------|------|
| | | | | | | A | W | C | M | B | ID |
| R4A-6 | 22-18 | 6 | R | .030 | .15 | .91 | .31 | .28 | .77 | .250 | .070 |
| R4A-6S | 22-18 | 6 | R | .030 | .15 | .86 | .25 | .28 | .77 | .250 | .070 |
| R4A-8 | 22-18 | 8 | R | .030 | .15 | .91 | .31 | .28 | .77 | .250 | .070 |
| R4A-8S | 22-18 | 8 | R | .030 | .15 | .91 | .25 | .28 | .77 | .250 | .070 |
| R4A-10 | 22-18 | 10 | R | .030 | .15 | .91 | .31 | .28 | .77 | .250 | .070 |
| R4A-14 | 22-18 | 1/4 | R | .030 | .15 | 1.14 | .53 | .42 | .87 | .250 | .070 |
| R4A-14S | 22-18 | 1/4 | R | .030 | .15 | 1.14 | .46 | .42 | .87 | .250 | .070 |
| R4A-56 | 22-18 | 5/16 | R | .030 | .15 | 1.14 | .53 | .42 | .87 | .250 | .070 |
| R4A-56S | 22-18 | 5/16 | R | .030 | .15 | 1.14 | .46 | .42 | .87 | .250 | .070 |
| R4A-38 | 22-18 | 3/8 | R | .030 | .15 | 1.14 | .53 | .42 | .87 | .250 | .070 |
| R4B-6 | 16-14 | 6 | B | .030 | .18 | .94 | .31 | .28 | .77 | .250 | .090 |
| R4B-6S | 16-14 | 6 | B | .030 | .18 | .88 | .25 | .28 | .77 | .250 | .090 |
| R4B-8 | 16-14 | 8 | B | .030 | .18 | .94 | .31 | .28 | .77 | .250 | .090 |
| R4B-8S | 16-14 | 8 | B | .030 | .18 | .88 | .25 | .28 | .77 | .250 | .090 |
| R4B-10 | 16-14 | 10 | B | .030 | .18 | .94 | .31 | .28 | .77 | .250 | .090 |
| R4B-14 | 16-14 | 1/4 | B | .030 | .18 | 1.04 | .46 | .42 | .90 | .250 | .090 |
| R4B-14S | 16-14 | 1/4 | B | .030 | .18 | 1.06 | .53 | .42 | .90 | .250 | .090 |
| R4B-56 | 16-14 | 5/16 | B | .030 | .18 | 1.04 | .46 | .42 | .90 | .250 | .090 |
| R4B-56S | 16-14 | 5/16 | B | .030 | .18 | 1.06 | .53 | .42 | .90 | .250 | .090 |
| R4B-38 | 16-14 | 3/8 | B | .030 | .18 | 1.06 | .53 | .42 | .90 | .250 | .090 |
| R4C-6 | 12-10 | 6 | Y | .040 | .25 | 1.00 | .38 | .28 | .80 | .250 | .130 |
| R4C-6S | 12-10 | 6 | Y | .040 | .25 | .95 | .28 | .28 | .80 | .250 | .130 |
| R4C-8 | 12-10 | 8 | Y | .040 | .25 | 1.00 | .38 | .28 | .80 | .250 | .130 |
| R4C-8S | 12-10 | 8 | Y | .040 | .25 | 1.00 | .28 | .28 | .80 | .250 | .130 |
| R4C-10 | 12-10 | 10 | Y | .040 | .25 | 1.00 | .38 | .28 | .80 | .250 | .130 |
| R4C-14 | 12-10 | 1/4 | Y | .040 | .25 | 1.28 | .61 | .44 | .94 | .250 | .130 |
| R4C-14S | 12-10 | 1/4 | Y | .040 | .25 | 1.22 | .53 | .44 | .94 | .250 | .130 |
| R4C-56 | 12-10 | 5/16 | Y | .040 | .25 | 1.28 | .61 | .44 | 1.00 | .250 | .130 |
| R4C-56S | 12-10 | 5/16 | Y | .040 | .25 | 1.22 | .53 | .44 | .94 | .250 | .130 |
| R4C-38 | 12-10 | 3/8 | Y | .040 | .25 | 1.28 | .61 | .44 | .94 | .250 | .130 |
| R4D-6 | 16-12 | 6 | Y | .050 | .25 | 1.00 | .38 | .25 | .80 | .250 | .115 |
| R4D-6S | 16-12 | 6 | Y | .050 | .25 | .95 | .28 | .25 | .80 | .250 | .115 |
| R4D-8 | 16-12 | 8 | Y | .050 | .25 | 1.00 | .38 | .25 | .80 | .250 | .115 |
| R4D-8S | 16-12 | 8 | Y | .050 | .25 | .95 | .28 | .25 | .80 | .250 | .115 |
| R4D-10 | 16-12 | 10 | Y | .050 | .25 | 1.00 | .38 | .25 | .80 | .250 | .115 |
| R4D-14 | 16-12 | 1/4 | Y | .050 | .25 | 1.28 | .61 | .44 | .94 | .250 | .115 |
| R4D-14S | 16-12 | 1/4 | Y | .050 | .25 | 1.22 | .53 | .44 | .94 | .250 | .115 |
| R4D-56 | 16-12 | 5/16 | Y | .050 | .25 | 1.28 | .61 | .44 | .94 | .250 | .115 |
| R4D-38 | 16-12 | 3/8 | Y | .050 | .25 | 1.28 | .61 | .44 | .94 | .250 | .115 |
| R4E-8SS | *+ | 8 | R | .050 | .34 | 1.22 | .38 | .34 | 1.01 | .375 | .165 |
| R4E-10 | *+ | 10 | R | .050 | .34 | 1.40 | .60 | .45 | 1.07 | .375 | .170 |
| R4E-10S | *+ | 10 | R | .050 | .34 | 1.27 | .47 | .41 | 1.04 | .375 | .165 |
| R4E-10SS | *+ | 8 | R | .050 | .34 | 1.22 | .38 | .34 | 1.01 | .375 | .165 |
| R4E-14 | *+ | 8 | R | .050 | .34 | 1.38 | .60 | .45 | 1.07 | .375 | .170 |
| R4E-14S | *+ | 8 | R | .050 | .34 | 1.27 | .47 | .41 | 1.04 | .375 | .165 |
| R4E-56 | *+ | 8 | R | .050 | .34 | 1.38 | .60 | .45 | 1.07 | .375 | .165 |
| R4E-38 | *+ | 8 | R | .050 | .34 | 1.38 | .60 | .45 | 1.07 | .375 | .170 |
| R4E-50 | ** | 8 | R | .050 | .34 | 1.72 | .81 | .68 | 1.33 | .375 | .165 |
| R4F-10 | *+ | 6 | B | .050 | .41 | 1.55 | .63 | .50 | 1.25 | .375 | .244 |
| R4F-10S | *+ | 6 | B | .050 | .41 | 1.48 | .47 | .50 | 1.25 | .375 | .244 |
| R4F-14 | *+ | 6 | B | .050 | .41 | 1.55 | .63 | .50 | 1.25 | .375 | .244 |
| R4F-14S | *+ | 6 | B | .050 | .41 | 1.48 | .47 | .50 | 1.25 | .375 | .244 |
| R4F-56 | *+ | 6 | B | .050 | .41 | 1.55 | .63 | .50 | 1.25 | .375 | .244 |
| R4F-38 | *+ | 6 | B | .050 | .41 | 1.55 | .63 | .50 | 1.25 | .375 | .244 |
| R4F-50 | ** | 6 | B | .050 | .41 | 2.20 | .88 | 1.01 | 1.18 | .375 | .244 |
| R4G-10 | *+ | 4 | Y | .075 | .51 | 1.75 | .66 | .55 | 1.38 | .437 | .278 |
| R4G-10S | *+ | 4 | Y | .075 | .51 | 1.65 | .45 | .55 | 1.38 | .437 | .278 |
| R4G-14 | *+ | 4 | Y | .075 | .51 | 1.75 | .66 | .55 | 1.38 | .437 | .278 |
| R4G-14S | *+ | 4 | Y | .075 | .51 | 1.65 | .45 | .55 | 1.38 | .437 | .278 |
| R4G-56 | *+ | 4 | Y | .075 | .51 | 1.75 | .66 | .55 | 1.38 | .437 | .278 |
| R4G-38 | *+ | 4 | Y | .075 | .51 | 1.75 | .66 | .55 | 1.38 | .437 | .278 |
| R4G-50 | ** | 4 | Y | .075 | .51 | 1.75 | .66 | .55 | 1.38 | .437 | .278 |

*Not CSA listed +UL component recognized **Not UL or CSA listed
Also available in nylon insulation without brass sleeve. Add letter "N" to catalog number between "4" and "E". Example: R4NE-10.

COPPER PENN-CRIMPS® • TYPE R6

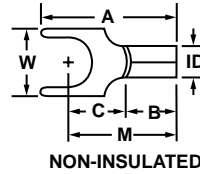
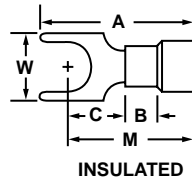
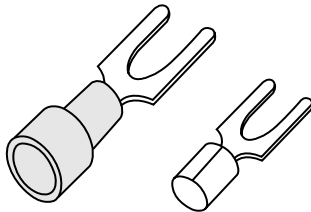
Nylon insulated ring terminal



Durable, Type R1 high conductivity copper construction, butted seam, with tin-plated brass sleeve and NEMA color coded nylon insulation. Brass sleeve and nylon insulation offer maximum barrel crimp strength for the highest quality reliable terminations. Three piece construction protects against severe conditions, especially where extreme vibration and flexing occur. Exceeds UL and CSA requirements, guaranteeing a high quality connection.

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|-----------------|-------------------|--------------------------|-----|-----|-----|------|------|
| | | | | | | A | W | C | M | B | ID |
| R6A-6 | 22-18 | 6 | R | .030 | .15 | .91 | .31 | .28 | .75 | .250 | .070 |
| R6A-6S | 22-18 | 6 | R | .030 | .15 | .86 | .25 | .28 | .75 | .250 | .070 |
| R6A-8 | 22-18 | 8 | R | .030 | .15 | .91 | .31 | .28 | .75 | .250 | .070 |
| R6A-8S | 22-18 | 8 | R | .030 | .15 | .86 | .25 | .28 | .75 | .250 | .070 |
| R6A-10 | 22-18 | 10 | R | .030 | .15 | .91 | .31 | .28 | .75 | .250 | .070 |
| R6A-14 | 22-18 | 1/4 | R | .030 | .15 | 1.14 | .53 | .42 | .87 | .250 | .070 |
| R6A-14S | 22-18 | 1/4 | R | .030 | .15 | 1.14 | .46 | .42 | .87 | .250 | .070 |
| R6A-56 | 22-18 | 5/16 | R | .030 | .15 | 1.14 | .53 | .42 | .87 | .250 | .070 |
| R6A-56S | 22-18 | 5/16 | R | .030 | .15 | 1.14 | .46 | .42 | .87 | .250 | .070 |
| R6A-38 | 22-18 | 3/8 | R | .030 | .15 | 1.14 | .53 | .42 | .87 | .250 | .070 |
| R6B-6 | 16-14 | 6 | B | .030 | .18 | .94 | .31 | .28 | .78 | .250 | .090 |
| R6B-6S | 16-14 | 6 | B | .030 | .18 | .88 | .25 | .28 | .78 | .250 | .090 |
| R6B-8 | 16-14 | 8 | B | .030 | .18 | .94 | .31 | .28 | .78 | .250 | .090 |
| R6B-8S | 16-14 | 8 | B | .030 | .18 | .88 | .25 | .28 | .78 | .250 | .090 |
| R6B-10 | 16-14 | 10 | B | .030 | .18 | .94 | .31 | .28 | .78 | .250 | .090 |
| R6B-14 | 16-14 | 1/4 | B | .030 | .18 | 1.04 | .53 | .42 | .90 | .250 | .090 |
| R6B-14S | 16-14 | 1/4 | B | .030 | .18 | 1.06 | .46 | .42 | .90 | .250 | .090 |
| R6B-56 | 16-14 | 5/16 | B | .030 | .18 | 1.04 | .53 | .42 | .90 | .250 | .090 |
| R6B-56S | 16-14 | 5/16 | B | .030 | .18 | 1.06 | .46 | .42 | .90 | .250 | .090 |
| R6B-38 | 16-14 | 3/8 | B | .030 | .18 | 1.06 | .53 | .42 | .90 | .250 | .090 |
| R6C-6 | 12-10 | 6 | Y | .040 | .25 | 1.06 | .38 | .28 | .83 | .250 | .130 |
| R6C-6S | 12-10 | 6 | Y | .040 | .25 | 1.00 | .28 | .28 | .83 | .250 | .130 |
| R6C-8 | 12-10 | 8 | Y | .040 | .25 | 1.06 | .38 | .28 | .83 | .250 | .130 |
| R6C-8S | 12-10 | 8 | Y | .040 | .25 | 1.00 | .28 | .28 | .83 | .250 | .130 |
| R6C-10 | 12-10 | 10 | Y | .040 | .25 | 1.06 | .38 | .28 | .83 | .250 | .130 |
| R6C-14 | 12-10 | 1/4 | Y | .040 | .25 | 1.28 | .61 | .31 | .95 | .250 | .130 |
| R6C-14S | 12-10 | 1/4 | Y | .040 | .25 | 1.22 | .53 | .44 | .95 | .250 | .130 |
| R6C-56 | 12-10 | 5/16 | Y | .040 | .25 | 1.28 | .61 | .44 | .95 | .250 | .130 |
| R6C-56S | 12-10 | 5/16 | Y | .040 | .25 | 1.22 | .53 | .44 | .95 | .250 | .130 |
| R6C-38 | 12-10 | 3/8 | Y | .040 | .25 | 1.28 | .58 | .44 | .95 | .250 | .130 |
| R6D-6 | 16-12 | 6 | Y | .050 | .25 | 1.00 | .38 | .25 | .79 | .250 | .115 |
| R6D-6S | 16-12 | 6 | Y | .050 | .25 | .95 | .28 | .25 | .79 | .250 | .115 |
| R6D-8 | 16-12 | 8 | Y | .050 | .25 | 1.00 | .38 | .25 | .79 | .250 | .115 |
| R6D-8S | 16-12 | 8 | Y | .050 | .25 | .95 | .28 | .25 | .79 | .250 | .115 |
| R6D-10 | 16-12 | 10 | Y | .050 | .25 | 1.00 | .38 | .25 | .79 | .250 | .115 |
| R6D-14 | 16-12 | 1/4 | Y | .050 | .25 | 1.28 | .61 | .44 | .93 | .250 | .115 |
| R6D-14S | 16-12 | 1/4 | Y | .050 | .25 | 1.22 | .53 | .44 | .93 | .250 | .115 |
| R6D-56 | 16-12 | 5/16 | Y | .050 | .25 | 1.28 | .61 | .44 | .93 | .250 | .115 |
| R6D-38 | 16-12 | 3/8 | Y | .050 | .25 | 1.28 | .61 | .44 | .93 | .250 | .115 |

COPPER PENN-CRIMPS® • TYPE S



Made from pure electrolytic copper, electro-tin plated for protection. Fork design allows for easy installation because screw need not be removed. Also available with color coded nylon or vinyl insulation.

NON-INSULATED SPADE TERMINAL

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| S1A-6 | 22-18 | 6 | .030 | .69 | .34 | .25 | .52 | .250 | .070 |
| S1A-8 | 22-18 | 8 | .030 | .69 | .34 | .25 | .52 | .250 | .070 |
| S1A-10 | 22-18 | 10 | .030 | .69 | .34 | .25 | .52 | .250 | .070 |
| S1B-6 | 16-14 | 6 | .030 | .68 | .34 | .25 | .51 | .250 | .090 |
| S1B-8 | 16-14 | 8 | .030 | .68 | .34 | .25 | .51 | .250 | .090 |
| S1B-10 | 16-14 | 10 | .030 | .68 | .34 | .25 | .51 | .250 | .090 |
| S1C-6 | 12-10 | 6 | .040 | .71 | .38 | .28 | .53 | .250 | .130 |
| S1C-8 | 12-10 | 8 | .040 | .71 | .38 | .28 | .53 | .250 | .130 |
| S1C-10 | 12-10 | 10 | .040 | .71 | .38 | .28 | .53 | .250 | .130 |

BRAZED SEAM

| | | | | | | | | | |
|--------|-------|----|------|-----|-----|-----|-----|------|------|
| S2A-6 | 22-18 | 6 | .030 | .69 | .34 | .25 | .52 | .250 | .070 |
| S2A-8 | 22-18 | 8 | .030 | .69 | .34 | .25 | .52 | .250 | .070 |
| S2A-10 | 22-18 | 10 | .030 | .69 | .34 | .25 | .52 | .250 | .070 |
| S2B-6 | 16-14 | 6 | .030 | .68 | .34 | .25 | .51 | .250 | .090 |
| S2B-8 | 16-14 | 8 | .030 | .68 | .34 | .25 | .51 | .250 | .090 |
| S2B-10 | 16-14 | 10 | .030 | .68 | .34 | .25 | .51 | .250 | .090 |
| S2C-6 | 12-10 | 6 | .040 | .71 | .38 | .28 | .53 | .250 | .130 |
| S2C-8 | 12-10 | 8 | .040 | .71 | .38 | .28 | .53 | .250 | .130 |
| S2C-10 | 12-10 | 10 | .040 | .71 | .38 | .28 | .53 | .250 | .130 |

INSULATED SPADE TERMINAL

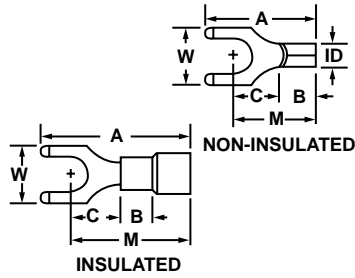
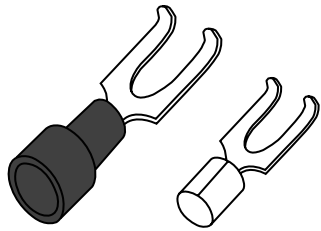
VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|-----------------|-------------------|--------------------------|-----|-----|-----|------|------|
| | | | | | | A | W | C | M | B | ID |
| S4A-6 | 22-18 | 6 | R | .030 | .15 | .90 | .34 | .25 | .75 | .250 | .063 |
| S4A-8 | 22-18 | 8 | R | .030 | .15 | .90 | .34 | .25 | .75 | .250 | .063 |
| S4A-10 | 22-18 | 10 | R | .030 | .15 | .90 | .34 | .25 | .75 | .250 | .063 |
| S4B-6 | 16-14 | 6 | B | .030 | .18 | .89 | .34 | .25 | .72 | .250 | .090 |
| S4B-8 | 16-14 | 8 | B | .030 | .18 | .89 | .34 | .25 | .72 | .250 | .090 |
| S4B-10 | 16-14 | 10 | B | .030 | .18 | .89 | .34 | .25 | .72 | .250 | .090 |
| S4C-6 | 12-10 | 6 | Y | .040 | .26 | .99 | .38 | .28 | .79 | .250 | .130 |
| S4C-8 | 12-10 | 8 | Y | .040 | .26 | .99 | .38 | .28 | .79 | .250 | .130 |
| S4C-10 | 12-10 | 10 | Y | .040 | .26 | .99 | .38 | .28 | .79 | .250 | .130 |

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | | | | | |
|--------|-------|----|---|------|-----|------|-----|-----|-----|------|------|
| S6A-6 | 22-18 | 6 | R | .030 | .15 | .94 | .34 | .25 | .73 | .250 | .055 |
| S6A-8 | 22-18 | 8 | R | .030 | .15 | .94 | .34 | .25 | .73 | .250 | .065 |
| S6A-10 | 22-18 | 10 | R | .030 | .15 | .94 | .34 | .25 | .73 | .250 | .065 |
| S6B-6 | 16-14 | 6 | B | .030 | .18 | .93 | .34 | .25 | .71 | .250 | .090 |
| S6B-8 | 16-14 | 8 | B | .030 | .18 | .93 | .34 | .25 | .71 | .250 | .090 |
| S6B-10 | 16-14 | 10 | B | .030 | .18 | .93 | .34 | .25 | .71 | .250 | .090 |
| S6C-6 | 12-10 | 6 | Y | .040 | .26 | 1.07 | .38 | .28 | .82 | .250 | .130 |
| S6C-8 | 12-10 | 8 | Y | .040 | .26 | 1.07 | .38 | .28 | .82 | .250 | .130 |
| S6C-10 | 12-10 | 10 | Y | .040 | .26 | 1.07 | .38 | .28 | .82 | .250 | .130 |

COPPER PENN-CRIMPS® • TYPE SF



Turned-up, flanged tips provide extra holding protection. Made from pure electrolytic copper, tin plated for corrosion resistance. Insulated versions are also available. PVC vinyl insulation forms insulation support for the crimped wire to avoid flexing. Nylon insulation protects against extreme vibration and weather. Exceeds all UL and CSA requirements.

NON-INSULATED FLANGED SPADE TERMINAL

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| SF1A-6 | 22-18 | 6 | .030 | .69 | .34 | .25 | .51 | .250 | .070 |
| SF1A-8 | 22-18 | 8 | .030 | .69 | .34 | .25 | .51 | .250 | .070 |
| SF1A-10 | 22-18 | 10 | .030 | .69 | .34 | .25 | .51 | .250 | .070 |
| SF1B-6 | 16-14 | 6 | .030 | .69 | .34 | .25 | .55 | .250 | .090 |
| SF1B-8 | 16-14 | 8 | .030 | .69 | .34 | .25 | .55 | .250 | .090 |
| SF1B-10 | 16-14 | 10 | .030 | .69 | .34 | .25 | .55 | .250 | .090 |
| SF1C-6 | 12-10 | 6 | .040 | .75 | .39 | .28 | .53 | .250 | .130 |
| SF1C-8 | 12-10 | 8 | .040 | .75 | .39 | .28 | .53 | .250 | .130 |
| SF1C-10 | 12-10 | 10 | .040 | .75 | .39 | .28 | .53 | .250 | .130 |

BRAZED SEAM

| | | | | | | | | | |
|---------|-------|----|------|-----|-----|-----|-----|------|------|
| SF2A-6 | 22-18 | 6 | .030 | .69 | .34 | .25 | .51 | .250 | .070 |
| SF2A-8 | 22-18 | 8 | .030 | .69 | .34 | .25 | .51 | .250 | .070 |
| SF2A-10 | 22-18 | 10 | .030 | .69 | .34 | .25 | .51 | .250 | .070 |
| SF2B-6 | 16-14 | 6 | .030 | .69 | .34 | .25 | .55 | .250 | .090 |
| SF2B-8 | 16-14 | 8 | .030 | .69 | .34 | .25 | .55 | .250 | .090 |
| SF2B-10 | 16-14 | 10 | .030 | .69 | .34 | .25 | .55 | .250 | .090 |
| SF2C-6 | 12-10 | 6 | .040 | .75 | .39 | .28 | .53 | .250 | .130 |
| SF2C-8 | 12-10 | 8 | .040 | .75 | .39 | .28 | .53 | .250 | .130 |
| SF2C-10 | 12-10 | 10 | .040 | .75 | .39 | .28 | .53 | .250 | .130 |

INSULATED FLANGE SPADE TERMINAL

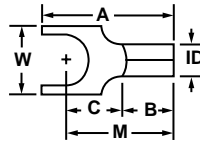
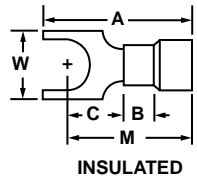
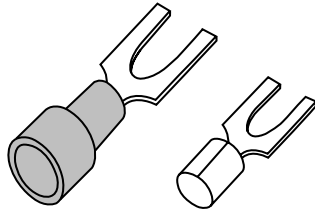
VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|-----------------|-------------------|--------------------------|-----|-----|-----|------|------|
| | | | | | | A | W | C | M | B | ID |
| SF4A-6 | 22-18 | 6 | R | .030 | .15 | .91 | .34 | .25 | .73 | .250 | .065 |
| SF4A-8 | 22-18 | 8 | R | .030 | .15 | .91 | .34 | .25 | .73 | .250 | .065 |
| SF4A-10 | 22-18 | 10 | R | .030 | .15 | .91 | .34 | .25 | .73 | .250 | .065 |
| SF4B-6 | 16-14 | 6 | B | .030 | .18 | .91 | .34 | .25 | .73 | .250 | .090 |
| SF4B-8 | 16-14 | 8 | B | .030 | .18 | .91 | .34 | .25 | .73 | .250 | .090 |
| SF4B-10 | 16-14 | 10 | B | .030 | .18 | .91 | .34 | .25 | .73 | .250 | .090 |
| SF4C-6 | 12-10 | 6 | Y | .040 | .26 | 1.03 | .39 | .28 | .81 | .250 | .130 |
| SF4C-8 | 12-10 | 8 | Y | .040 | .26 | 1.03 | .39 | .28 | .81 | .250 | .130 |
| SF4C-10 | 12-10 | 10 | Y | .040 | .26 | 1.03 | .39 | .28 | .81 | .250 | .130 |

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | | | | | |
|---------|-------|----|---|------|-----|------|-----|-----|-----|------|------|
| SF6A-6 | 22-18 | 6 | R | .030 | .15 | .91 | .34 | .25 | .73 | .250 | .065 |
| SF6A-8 | 22-18 | 8 | R | .030 | .15 | .91 | .34 | .25 | .73 | .250 | .065 |
| SF6A-10 | 22-18 | 10 | R | .030 | .15 | .91 | .34 | .25 | .73 | .250 | .065 |
| SF6B-6 | 16-14 | 6 | B | .030 | .18 | .91 | .34 | .25 | .73 | .250 | .090 |
| SF6B-8 | 16-14 | 8 | B | .030 | .18 | .91 | .34 | .25 | .73 | .250 | .090 |
| SF6B-10 | 16-14 | 10 | B | .030 | .18 | .91 | .34 | .25 | .73 | .250 | .090 |
| SF6C-6 | 12-10 | 6 | Y | .040 | .26 | 1.03 | .38 | .28 | .88 | .250 | .130 |
| SF6C-8 | 12-10 | 8 | Y | .040 | .26 | 1.03 | .38 | .28 | .88 | .250 | .130 |
| SF6C-10 | 12-10 | 10 | Y | .040 | .26 | 1.03 | .38 | .28 | .88 | .250 | .130 |

COPPER PENN-CRIMPS® • TYPE BS



NON-INSULATED

Made from pure electrolytic copper, electro-tin plated for protection. Block spade design, featuring squared-off ends, allows for easy installation because screw need not be removed. Also available with color coded nylon or vinyl insulation.

NON-INSULATED BLOCK SPADE TERMINAL

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| BS1A-6 | 22-18 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .070 |
| BS1A-6S | 22-18 | 6 | .030 | .61 | .25 | .25 | .50 | .250 | .070 |
| BS1A-8 | 22-18 | 8 | .030 | .66 | .31 | .25 | .50 | .250 | .070 |
| BS1A-10 | 22-18 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .070 |
| BS1B-6 | 16-14 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .090 |
| BS1B-6S | 16-14 | 6 | .030 | .61 | .25 | .25 | .50 | .250 | .090 |
| BS1B-8 | 16-14 | 8 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| BS1B-10 | 16-14 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| BS1C-6 | 12-10 | 6 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |
| BS1C-8 | 12-10 | 8 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |
| BS1C-10 | 12-10 | 10 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |

BRAZED SEAM

| | | | | | | | | | |
|---------|-------|----|------|-----|-----|-----|-----|------|------|
| BS2A-6 | 22-18 | 6 | .030 | .66 | .29 | .25 | .50 | .245 | .070 |
| BS2A-6S | 22-18 | 6 | .030 | .61 | .25 | .25 | .50 | .245 | .070 |
| BS2A-8 | 22-18 | 8 | .030 | .66 | .31 | .25 | .50 | .245 | .070 |
| BS2A-10 | 22-18 | 10 | .030 | .66 | .31 | .25 | .50 | .245 | .070 |
| BS2B-6 | 16-14 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .090 |
| BS2B-6S | 16-14 | 6 | .030 | .61 | .25 | .25 | .50 | .250 | .090 |
| BS2B-8 | 16-14 | 8 | .030 | .66 | .31 | .25 | .50 | .240 | .090 |
| BS2B-10 | 16-14 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| BS2C-6 | 12-10 | 6 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |
| BS2C-8 | 12-10 | 8 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |
| BS2C-10 | 12-10 | 10 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |

INSULATED BLOCK SPADE TERMINAL

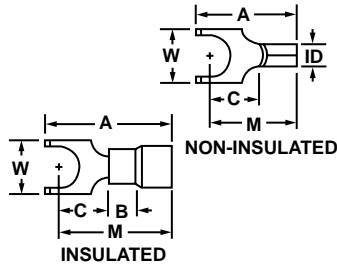
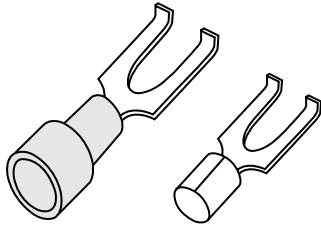
VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|-----------------|-------------------|--------------------------|-----|-----|------|------|------|
| | | | | | | A | W | C | M | B | ID |
| BS4A-6 | 22-18 | 6 | R | .030 | .15 | .88 | .29 | .25 | .72 | .250 | .070 |
| BS4A-6S | 22-18 | 6 | R | .030 | .15 | .84 | .25 | .25 | .73 | .250 | .070 |
| BS4A-8 | 22-18 | 8 | R | .030 | .15 | .88 | .31 | .25 | .72 | .250 | .070 |
| BS4A-10 | 22-18 | 10 | R | .030 | .15 | .88 | .31 | .25 | .72 | .250 | .070 |
| BS4B-6 | 16-14 | 6 | B | .030 | .18 | .88 | .29 | .25 | .72 | .250 | .090 |
| BS4B-6S | 16-14 | 6 | B | .030 | .18 | .84 | .25 | .33 | .81 | .250 | .090 |
| BS4B-8 | 16-14 | 8 | B | .030 | .19 | .88 | .31 | .25 | .72 | .250 | .090 |
| BS4B-10 | 16-14 | 10 | B | .030 | .19 | .88 | .31 | .25 | .72 | .250 | .090 |
| BS4C-6 | 12-10 | 6 | Y | .040 | .26 | 1.01 | .31 | .28 | .83 | .250 | .130 |
| BS4C-8 | 12-10 | 8 | Y | .040 | .26 | 1.01 | .31 | .28 | .83 | .250 | .130 |
| BS4C-10 | 12-10 | 10 | Y | .040 | .26 | 1.01 | .31 | .28 | .83 | .250 | .130 |
| BS4C-14 | 12-10 | 1/4 | Y | .040 | .26 | 1.29 | .49 | .45 | 1.03 | .250 | .130 |

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | | | | | |
|---------|-------|----|---|------|-----|------|-----|-----|-----|------|------|
| BS6A-6 | 22-18 | 6 | R | .030 | .15 | .88 | .29 | .25 | .74 | .250 | .070 |
| BS6A-6S | 22-18 | 6 | R | .030 | .15 | .84 | .25 | .25 | .78 | .250 | .070 |
| BS6A-8 | 22-18 | 8 | R | .030 | .15 | .88 | .31 | .25 | .74 | .250 | .070 |
| BS6A-10 | 22-18 | 10 | R | .030 | .15 | .88 | .31 | .25 | .74 | .250 | .070 |
| BS6B-6 | 16-14 | 6 | B | .030 | .18 | .88 | .29 | .25 | .74 | .250 | .090 |
| BS6B-6S | 16-14 | 6 | B | .030 | .18 | .84 | .25 | .25 | .78 | .250 | .090 |
| BS6B-8 | 16-14 | 8 | B | .030 | .18 | .88 | .31 | .25 | .74 | .250 | .090 |
| BS6B-10 | 16-14 | 10 | B | .030 | .18 | .88 | .31 | .25 | .74 | .250 | .090 |
| BS6C-6 | 12-10 | 6 | Y | .040 | .26 | 1.01 | .31 | .28 | .83 | .250 | .130 |
| BS6C-8 | 12-10 | 8 | Y | .040 | .26 | 1.01 | .31 | .28 | .83 | .250 | .130 |
| BS6C-10 | 12-10 | 10 | Y | .040 | .26 | 1.01 | .31 | .28 | .83 | .250 | .130 |

COPPER PENN-CRIMPS® • TYPE BSF



Made from pure electrolytic copper, electro-tin plated for protection. Block spade design allows for easy installation because screw need not be removed. Flanged tips provide extra holding protection, especially where vibration occurs. Also available with NEMA color coded nylon or vinyl insulation. Exceeds all UL and CSA requirements.

NON-INSULATED BLOCK SPADE FLANGED TERMINAL

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| BSF1A-6 | 22-18 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .070 |
| BSF1A-8 | 22-18 | 8 | .030 | .66 | .31 | .25 | .50 | .250 | .070 |
| BSF1A-10 | 22-18 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .070 |
| BSF1B-6 | 16-14 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .090 |
| BSF1B-8 | 16-14 | 8 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| BSF1B-10 | 16-14 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| BSF1C-6 | 12-10 | 6 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |
| BSF1C-8 | 12-10 | 8 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |
| BSF1C-10 | 12-10 | 10 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |

BRAZED SEAM

| | | | | | | | | | |
|----------|-------|----|------|-----|-----|-----|-----|------|------|
| BSF2A-6 | 22-18 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .070 |
| BSF2A-8 | 22-18 | 8 | .030 | .66 | .31 | .25 | .50 | .250 | .070 |
| BSF2A-10 | 22-18 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .070 |
| BSF2B-6 | 16-14 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .090 |
| BSF2B-8 | 16-14 | 8 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| BSF2B-10 | 16-14 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| BSF2C-6 | 12-10 | 6 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |
| BSF2C-8 | 12-10 | 8 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |
| BSF2C-10 | 12-10 | 10 | .040 | .71 | .31 | .28 | .53 | .250 | .130 |

INSULATED BLOCK SPADE FLANGED TERMINAL

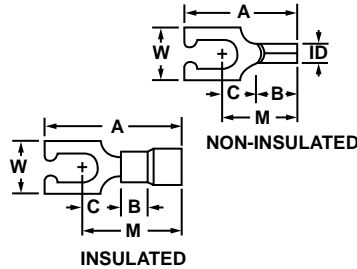
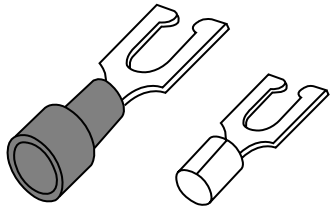
VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|-----------------|-------------------|--------------------------|-----|-----|-----|------|------|
| | | | | | | A | W | C | M | B | ID |
| BSF4A-6 | 22-18 | 6 | R | .030 | .15 | .87 | .29 | .25 | .71 | .250 | .070 |
| BSF4A-8 | 22-18 | 8 | R | .030 | .15 | .87 | .31 | .25 | .71 | .250 | .070 |
| BSF4A-10 | 22-18 | 10 | R | .030 | .15 | .87 | .31 | .25 | .71 | .250 | .070 |
| BSF4B-6 | 16-14 | 6 | B | .030 | .18 | .87 | .29 | .25 | .71 | .250 | .090 |
| BSF4B-8 | 16-14 | 8 | B | .030 | .18 | .87 | .31 | .25 | .71 | .250 | .090 |
| BSF4B-10 | 16-14 | 10 | B | .030 | .18 | .87 | .31 | .25 | .71 | .250 | .090 |
| BSF4C-6 | 12-10 | 6 | Y | .040 | .26 | .98 | .31 | .28 | .80 | .250 | .130 |
| BSF4C-8 | 12-10 | 8 | Y | .040 | .26 | .98 | .31 | .28 | .80 | .250 | .130 |
| BSF4C-10 | 12-10 | 10 | Y | .040 | .26 | .98 | .31 | .28 | .80 | .250 | .130 |

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | | | | | |
|----------|-------|----|---|------|-----|------|-----|-----|-----|------|------|
| BSF6A-6 | 22-18 | 6 | R | .030 | .15 | .87 | .29 | .25 | .71 | .250 | .070 |
| BSF6A-8 | 22-18 | 8 | R | .030 | .15 | .87 | .31 | .25 | .71 | .250 | .070 |
| BSF6A-10 | 22-18 | 10 | R | .030 | .15 | .87 | .31 | .25 | .71 | .250 | .070 |
| BSF6B-6 | 16-14 | 6 | B | .030 | .18 | .90 | .29 | .25 | .74 | .250 | .090 |
| BSF6B-8 | 16-14 | 8 | B | .030 | .18 | .90 | .31 | .25 | .74 | .250 | .090 |
| BSF6B-10 | 16-14 | 10 | B | .030 | .18 | .90 | .31 | .25 | .74 | .250 | .090 |
| BSF6C-6 | 12-10 | 6 | Y | .040 | .26 | 1.06 | .31 | .28 | .88 | .250 | .130 |
| BSF6C-8 | 12-10 | 8 | Y | .040 | .26 | 1.06 | .31 | .28 | .88 | .250 | .130 |
| BSF6C-10 | 12-10 | 10 | Y | .040 | .26 | 1.06 | .31 | .28 | .88 | .250 | .130 |

COPPER PENN-CRIMPS® • TYPE LS



Made from pure electrolytic copper, electro-tin plated for protection. Fork design allows for easy installation because screw need not be removed. Locking feature combines additional security with the convenience of a spade terminal. Also available with NEMA color coded nylon or vinyl insulation. Exceeds all UL and CSA requirements.

NON-INSULATED LOCKING SPADE TERMINAL

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| LS1A-6 | 22-18 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .070 |
| LS1A-8 | 22-18 | 8 | .030 | .66 | .31 | .25 | .50 | .250 | .070 |
| LS1A-10 | 22-18 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .070 |
| LS1B-6 | 16-14 | 6 | .030 | .66 | .29 | .25 | .50 | .250 | .090 |
| LS1B-8 | 16-14 | 8 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| LS1B-10 | 16-14 | 10 | .030 | .66 | .31 | .25 | .50 | .250 | .090 |
| LS1C-6 | 12-10 | 6 | .040 | .71 | .31 | .28 | .54 | .250 | .130 |
| LS1C-8 | 12-10 | 8 | .040 | .71 | .31 | .28 | .54 | .250 | .130 |
| LS1C-10 | 12-10 | 10 | .040 | .71 | .31 | .28 | .54 | .250 | .130 |

INSULATED LOCKING SPADE TERMINAL

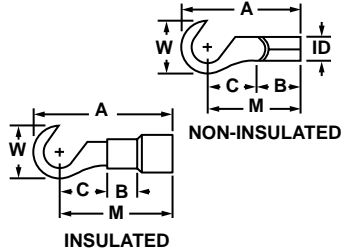
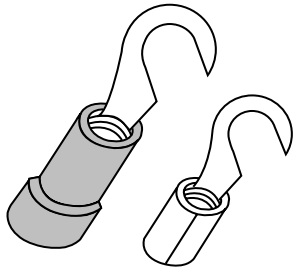
VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|-----------------|-------------------|--------------------------|-----|-----|-----|------|------|
| | | | | | | A | W | C | M | B | ID |
| LS4A-6 | 22-18 | 6 | R | .030 | .15 | .87 | .29 | .25 | .70 | .250 | .070 |
| LS4A-8 | 22-18 | 8 | R | .030 | .15 | .87 | .31 | .25 | .70 | .250 | .070 |
| LS4A-10 | 22-18 | 10 | R | .030 | .15 | .87 | .31 | .25 | .70 | .250 | .070 |
| LS4B-6 | 16-14 | 6 | B | .030 | .18 | .87 | .29 | .25 | .70 | .250 | .090 |
| LS4B-8 | 16-14 | 8 | B | .030 | .18 | .87 | .31 | .25 | .70 | .250 | .090 |
| LS4B-10 | 16-14 | 10 | B | .030 | .18 | .87 | .31 | .25 | .70 | .250 | .090 |
| LS4C-6 | 12-10 | 6 | Y | .040 | .26 | .96 | .31 | .28 | .80 | .250 | .130 |
| LS4C-8 | 12-10 | 8 | Y | .040 | .26 | .96 | .31 | .28 | .80 | .250 | .130 |
| LS4C-10 | 12-10 | 10 | Y | .040 | .26 | .96 | .31 | .28 | .80 | .250 | .130 |

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | | | | | |
|---------|-------|----|---|------|-----|------|-----|-----|-----|------|------|
| LS6A-6 | 22-18 | 6 | R | .030 | .15 | .90 | .29 | .25 | .73 | .250 | .070 |
| LS6A-8 | 22-18 | 8 | R | .030 | .15 | .90 | .31 | .25 | .73 | .250 | .070 |
| LS6A-10 | 22-18 | 10 | R | .030 | .15 | .90 | .31 | .25 | .73 | .250 | .070 |
| LS6B-6 | 16-14 | 6 | B | .030 | .18 | .90 | .29 | .25 | .73 | .250 | .090 |
| LS6B-8 | 16-14 | 8 | B | .030 | .18 | .90 | .31 | .25 | .73 | .250 | .090 |
| LS6B-10 | 16-14 | 10 | B | .030 | .18 | .90 | .31 | .25 | .73 | .250 | .090 |
| LS6C-6 | 12-10 | 6 | Y | .040 | .26 | 1.06 | .31 | .28 | .89 | .250 | .130 |
| LS6C-8 | 12-10 | 8 | Y | .040 | .26 | 1.06 | .31 | .28 | .89 | .250 | .130 |
| LS6C-10 | 12-10 | 10 | Y | .040 | .26 | 1.06 | .31 | .28 | .89 | .250 | .130 |

COPPER PENN-CRIMPS® • TYPE H



Made with high conductivity, electrolytic copper, annealed and electro-tin plated to resist corrosion. Hook design allows for easy installation because mounting screw need not be removed. Available non-insulated or with NEMA color coded nylon or vinyl insulation. Insulation is flared for wire insulation support. The combination of these features and the fact that our products exceed UL and CSA requirements guarantee a high quality connection.

NON-INSULATED HOOK TERMINAL

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| H1A-6 | 22-18 | 6 | .030 | .69 | .34 | .25 | .54 | .250 | .070 |
| H1A-8 | 22-18 | 8 | .030 | .69 | .34 | .25 | .54 | .250 | .070 |
| H1A-10 | 22-18 | 10 | .030 | .69 | .34 | .25 | .54 | .250 | .070 |
| H1B-6 | 16-14 | 6 | .030 | .69 | .34 | .25 | .54 | .250 | .090 |
| H1B-8 | 16-14 | 8 | .030 | .69 | .34 | .25 | .54 | .250 | .090 |
| H1B-10 | 16-14 | 10 | .030 | .69 | .34 | .25 | .54 | .250 | .090 |
| H1C-6 | 12-10 | 6 | .040 | .72 | .38 | .28 | .54 | .250 | .130 |
| H1C-8 | 12-10 | 8 | .040 | .72 | .38 | .28 | .54 | .250 | .130 |
| H1C-10 | 12-10 | 10 | .040 | .72 | .38 | .28 | .54 | .250 | .130 |

INSULATED HOOK TERMINAL

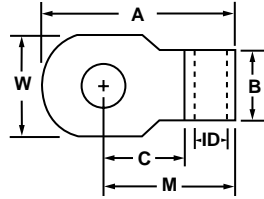
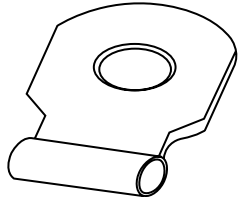
VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|-----------------|-------------------|--------------------------|-----|-----|-----|------|------|
| | | | | | | A | W | C | M | B | ID |
| H4A-6 | 22-18 | 6 | R | .030 | .15 | 1.01 | .34 | .25 | .85 | .250 | .070 |
| H4A-8 | 22-18 | 8 | R | .030 | .15 | 1.01 | .34 | .25 | .85 | .250 | .070 |
| H4A-10 | 22-18 | 10 | R | .030 | .15 | 1.01 | .34 | .25 | .85 | .250 | .070 |
| H4B-6 | 16-14 | 6 | B | .030 | .18 | .93 | .34 | .25 | .78 | .250 | .090 |
| H4B-8 | 16-14 | 8 | B | .030 | .18 | .93 | .34 | .25 | .78 | .250 | .090 |
| H4B-10 | 16-14 | 10 | B | .030 | .18 | .93 | .34 | .25 | .78 | .250 | .090 |
| H4C-6 | 12-10 | 6 | Y | .040 | .26 | .99 | .38 | .28 | .80 | .250 | .130 |
| H4C-8 | 12-10 | 8 | Y | .040 | .26 | .99 | .38 | .28 | .80 | .250 | .130 |
| H4C-10 | 12-10 | 10 | Y | .040 | .26 | .99 | .38 | .28 | .80 | .250 | .130 |

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | | | | | |
|--------|-------|----|---|------|-----|------|-----|-----|-----|------|------|
| H6A-6 | 22-18 | 6 | R | .030 | .15 | .93 | .34 | .25 | .78 | .250 | .070 |
| H6A-8 | 22-18 | 8 | R | .030 | .15 | .93 | .34 | .25 | .78 | .250 | .070 |
| H6A-10 | 22-18 | 10 | R | .030 | .15 | .93 | .34 | .25 | .78 | .250 | .070 |
| H6B-6 | 16-14 | 6 | B | .030 | .18 | .93 | .34 | .25 | .78 | .250 | .090 |
| H6B-8 | 16-14 | 8 | B | .030 | .18 | .93 | .34 | .25 | .78 | .250 | .090 |
| H6B-10 | 16-14 | 10 | B | .030 | .18 | .93 | .34 | .25 | .78 | .250 | .090 |
| H6C-6 | 12-10 | 6 | Y | .040 | .26 | 1.00 | .38 | .28 | .81 | .250 | .130 |
| H6C-8 | 12-10 | 8 | Y | .040 | .26 | 1.00 | .38 | .28 | .81 | .250 | .130 |
| H6C-10 | 12-10 | 10 | Y | .040 | .26 | 1.00 | .38 | .28 | .81 | .250 | .130 |

COPPER PENN-CRIMPS® • TYPE FLR



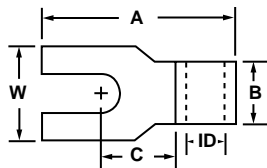
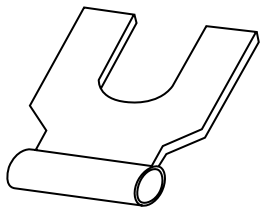
One piece, annealed, pure electrolytic copper construction, electro-tin plated for corrosion resistance. Flag base accepts wire through side opening, allowing ninety degree connections without bending the wire. Type FLR connectors are made to exceed standards for reliability and durability, guaranteeing a high quality connection.

NON-INSULATED RING FLAG TERMINAL

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in.) | Approx. Dimen. in Inches | | | | | |
|----------------|--------------------|-----------|------------------|--------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| FLR1A-6 | 22-18 | 6 | .030 | .66 | .38 | .34 | .47 | .250 | .070 |
| FLR1A-8 | 22-18 | 8 | .030 | .66 | .38 | .34 | .47 | .250 | .070 |
| FLR1A-10 | 22-18 | 10 | .030 | .66 | .38 | .34 | .47 | .250 | .070 |
| FLR1B-6 | 16-14 | 6 | .030 | .69 | .38 | .34 | .47 | .250 | .090 |
| FLR1B-8 | 16-14 | 8 | .030 | .69 | .38 | .34 | .47 | .250 | .090 |
| FLR1B-10 | 16-14 | 10 | .030 | .69 | .38 | .34 | .47 | .250 | .090 |
| FLR1C-6 | 12-10 | 6 | .040 | .69 | .38 | .28 | .47 | .250 | .130 |
| FLR1C-8 | 12-10 | 8 | .040 | .69 | .38 | .28 | .47 | .250 | .130 |
| FLR1C-10 | 12-10 | 10 | .040 | .69 | .38 | .28 | .47 | .250 | .130 |

COPPER PENN-CRIMPS® • TYPE FLS



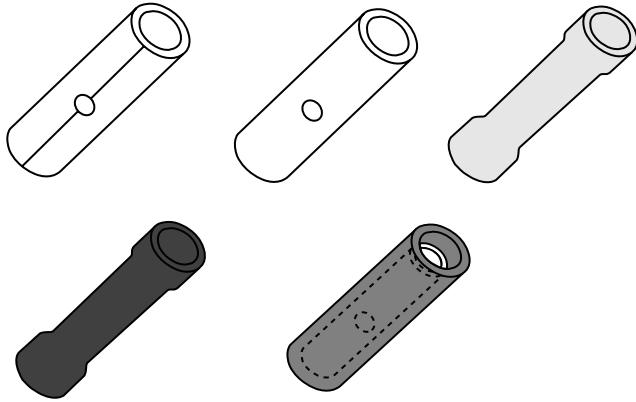
Made with the same high quality copper construction as Type FLR terminals. FLS terminals have a fork design which allows easy installation because mounting screw need not be removed. Also provides side entrance hole permitting ninety degree connections without bending the wire.

NON-INSULATED SPADE FLAG TERMINAL

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in.) | Approx. Dimen. in Inches | | | | |
|----------------|--------------------|-----------|------------------|--------------------------|-----|-----|------|------|
| | | | | A | W | C | B | ID |
| FLS1A-6 | 22-18 | 6 | .030 | .66 | .38 | .34 | .250 | .070 |
| FLS1A-8 | 22-18 | 8 | .030 | .66 | .38 | .34 | .250 | .070 |
| FLS1A-10 | 22-18 | 10 | .030 | .66 | .38 | .34 | .250 | .070 |
| FLS1B-6 | 16-14 | 6 | .030 | .69 | .38 | .34 | .250 | .090 |
| FLS1B-8 | 16-14 | 8 | .030 | .69 | .38 | .34 | .250 | .090 |
| FLS1B-10 | 16-14 | 10 | .030 | .69 | .38 | .34 | .250 | .090 |
| FLS1C-6 | 12-10 | 6 | .040 | .69 | .38 | .34 | .250 | .130 |
| FLS1C-8 | 12-10 | 8 | .040 | .69 | .38 | .34 | .250 | .130 |
| FLS1C-10 | 12-10 | 10 | .040 | .69 | .38 | .34 | .250 | .130 |

COPPER PENN-CRIMPS® • TYPE B

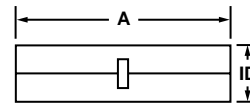


Pure electrolytic copper connectors, annealed and tin plated, with internal wire stops to assure wires reach proper insertion length before butting together. Crimping occurs at each end of the splice. Available non-insulated, nylon insulated and vinyl insulated. Type 8 is pre-insulated with high quality nylon which extends beyond the metal splice to enclose wire insulation after crimping. Especially suited to applications where excessive vibration problems occur.

NON-INSULATED BUTT CONNECTOR

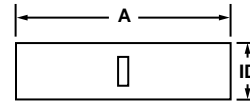
BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stock Size (in) | Approx. Dimen. in Inches | |
|----------------|--------------------|-----------------|--------------------------|------|
| | | | A | ID |
| B1A | 22-18 | .030 | .57 | .070 |
| B1B | 16-14 | .030 | .57 | .090 |
| B1C | 12-10 | .040 | .57 | .130 |



SEAMLESS

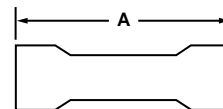
| | | | | |
|-------|-------|------|------|------|
| B7A | 22-18 | .030 | .62 | .055 |
| B7B | 16-14 | .030 | .66 | .090 |
| B7C | 12-10 | .040 | .82 | .142 |
| B7E + | 8 | .050 | .82 | .172 |
| B7F + | 6 | .050 | 1.01 | .226 |
| B7G + | 4 | .075 | 1.13 | .300 |



INSULATED BUTT CONNECTOR

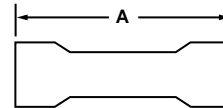
VINYL INSULATED - SEAMLESS

| Catalog Number | Copper Cond. Range | Stock Size (in) | Color Code (ins) | Max. Insul. Diam. | Approx. Dimen. in Inches | |
|----------------|--------------------|-----------------|------------------|-------------------|--------------------------|------|
| | | | | | A | ID |
| B4AB | 22-18 | .030 | R | .160 | .95 | .055 |
| B4BB | 16-14 | .030 | B | .190 | 1.02 | .090 |
| B4CB | 12-10 | .040 | Y | .255 | 1.01 | .142 |



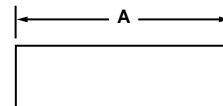
VINYL INSULATED

| | | | | | | |
|--------|-------|------|---|------|------|------|
| B4A | 22-18 | .030 | R | .160 | .95 | .068 |
| B4B | 16-14 | .030 | B | .190 | 1.02 | .090 |
| B4C | 12-10 | .040 | Y | .265 | 1.01 | .130 |
| B4E *+ | 8 | .050 | R | .300 | 1.46 | .172 |
| B4F *+ | 6 | .050 | B | .425 | 1.80 | .226 |
| B4G *+ | 4 | .075 | Y | .520 | 1.95 | .300 |



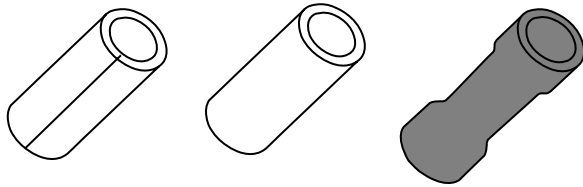
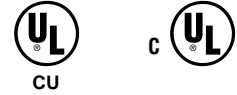
NYLON INSULATED - SEAMLESS

| | | | | | | |
|-----|-------|------|---|------|------|------|
| B8A | 22-18 | .030 | R | .120 | 1.01 | .055 |
| B8B | 16-14 | .030 | B | .155 | 1.02 | .055 |
| B8C | 12-10 | .040 | Y | .215 | 1.20 | .142 |



*UL component recognized
 +Not CSA listed

COPPER PENN-CRIMPS® • TYPE P

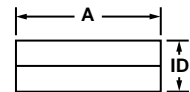


Made with the same high quality, one piece construction as the Butt connectors. Parallel connectors are wider and shorter, permitting wires to lay side by side inside connectors. This allows simplicity of installation because only one crimp is needed to complete the splice. Compact size is beneficial in small areas. Available non-insulated and with nylon insulation or vinyl insulation. Seamless Type 7 construction provides extra crimp strength. Exceeds UL requirements to guarantee a high quality connection.

NON-INSULATED PARALLEL CONNECTOR

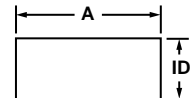
BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stock Size (in) | Approx. Dimen. in Inches | |
|----------------|--------------------|-----------------|--------------------------|------|
| | | | A | ID |
| P1A + | 22-18 | .030 | .31 | .070 |
| P1B | 16-14 | .030 | .31 | .090 |
| P1C | 12-10 | .040 | .31 | .130 |



SEAMLESS

| | | | | |
|-------|---|------|-----|------|
| P7E * | 8 | .050 | .44 | .175 |
| P7F * | 6 | .050 | .48 | .226 |
| P7G * | 4 | .075 | .53 | .300 |

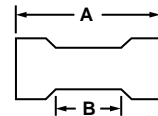


+CSA Listed
*Not UL listed

INSULATED PARALLEL CONNECTOR

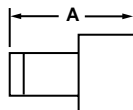
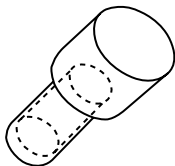
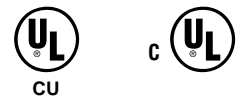
VINYL - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Color Code (ins) | Stock Size (in) | Max. Insul. Diam. | Approx. Dimen. in Inches | | |
|----------------|--------------------|------------------|-----------------|-------------------|--------------------------|------|------|
| | | | | | A | B | ID |
| P4A * | 22-18 | R | .030 | .15 | .69 | .313 | .070 |
| P4B | 20-16 | B | .030 | .18 | .69 | .313 | .090 |
| P4C | 18-12 | Y | .040 | .24 | .78 | .313 | .130 |
| P4E ** | 16-10 | R | .050 | .35 | 1.00 | .438 | .175 |
| P4F ** | 14-6 | B | .050 | .43 | 1.19 | .484 | .226 |



*Not UL listed
**UL component recognized

COPPER PENN-CRIMPS® • TYPES NPAB AND NPBC

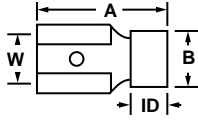
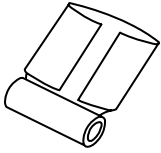


One piece, annealed, pure electrolytic copper with nylon pre-insulation. Suited exclusively for copper to copper connections. Expanded nylon insulation provides support for wire insulation. Seamless insert provides extra crimp strength. Exceeds all UL requirements.

NYLON PIGTAILS - SEAMLESS

| Catalog Number | Copper Cond. Range | Approx. Dimen. in Inches | Crimp Length |
|----------------|--------------------|--------------------------|--------------|
| | | A | |
| NPAB1 | 22-14 | .63 | .30 |
| NPBC1 | 22-10 | .69 | .28 |

COPPER PENN-CRIMPS® • TYPE FLFR

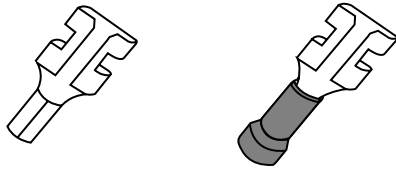


One piece, pure electrolytic copper, annealed and tin plated for corrosion resistance. Type FLFR features a side entrance chamfer to permit connections of ninety degrees without bending the wire. Provides quick, reliable snap-together interconnections without the use of tools. Made with Penn-Crimps quality to assure maximum longevity and productivity.

FEMALE FLAG DISCONNECTS - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Tab Size (in) | Approximate Dimensions in Inches | | | |
|----------------|--------------------|---------------|----------------------------------|-----|------|------|
| | | | A | W | B | ID |
| FLFR1A-250 | 22-18 | .020 | .50 | .25 | .250 | .070 |
| FLFR1B-250 | 16-14 | .020 | .50 | .25 | .250 | .090 |

COPPER PENN-CRIMPS® • TYPE FR

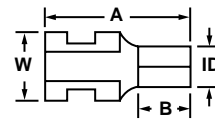


One piece, high grade copper alloy construction with electro-tin plating for corrosion resistance. Snap-together construction of mating male and female disconnects provides quick, reliable interconnections without tools. Quality crafted for long term dependability and performance.

NON-INSULATED FEMALE DISCONNECTS

BUTTED SEAM

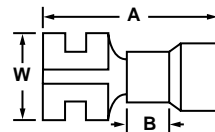
| Catalog Number | Copper Cond. Range | Tab Size (in) | Approximate Dimensions in Inches | | | |
|----------------|--------------------|---------------|----------------------------------|-----|------|------|
| | | | A | W | B | ID |
| FR1A110 * | 22-18 | .020 x .110 | .54 | .16 | .220 | .070 |
| FR1A187 * | 22-18 | .020 x .187 | .63 | .23 | .250 | .070 |
| FR1A250 * | 22-18 | .032 x .250 | .63 | .31 | .234 | .070 |
| FR1B110 * | 16-14 | .020 x .110 | .54 | .16 | .220 | .110 |
| FR1B187 * | 16-14 | .020 x .187 | .63 | .23 | .250 | .070 |
| FR1B250 * | 16-14 | .032 x .250 | .63 | .31 | .234 | .090 |
| FR1C250 * | 12-10 | .032 x .250 | .63 | .31 | .234 | .170 |



INSULATED FEMALE DISCONNECTS

VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Color Code (ins) | Tab Size (in) | Max. Insul. Diam. | Approximate Dimensions in Inches | | | |
|----------------|--------------------|------------------|---------------|-------------------|----------------------------------|-----|------|------|
| | | | | | A | W | B | ID |
| FR4A110 | 22-18 | R | .020 x .110 | .14 | .77 | .16 | .220 | .050 |
| FR4A187 | 22-18 | R | .020 x .187 | .14 | .86 | .23 | .172 | .070 |
| FR4A250 | 22-18 | R | .032 x .250 | .14 | .93 | .31 | .234 | .070 |
| FR4B110 | 16-14 | B | .020 x .110 | .14 | .77 | .16 | .220 | .070 |
| FR4B187 | 16-14 | B | .020 x .187 | .14 | .87 | .23 | .172 | .070 |
| FR4B250 | 16-14 | B | .032 x .250 | .14 | .87 | .31 | .234 | .070 |
| FR4C250 † | 12-10 | Y | .032 x .250 | .25 | 1.08 | .31 | .234 | .136 |

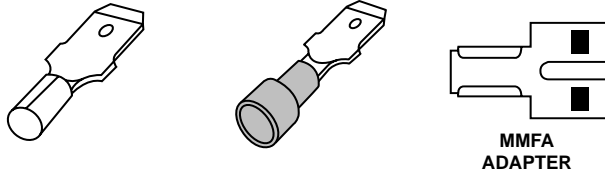


NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | | |
|-----------|-------|---|-------------|-----|-----|-----|------|------|
| FR6A110 | 22-18 | R | .020 x .110 | .12 | .77 | .16 | .220 | .050 |
| FR6A187 | 22-18 | R | .020 x .187 | .12 | .87 | .23 | .250 | .070 |
| FR6A250 | 22-18 | R | .032 x .250 | .12 | .87 | .32 | .234 | .070 |
| FR6B110 | 16-14 | B | .020 x .110 | .14 | .77 | .16 | .220 | .070 |
| FR6B187 | 16-14 | B | .020 x .187 | .14 | .87 | .23 | .172 | .070 |
| FR6B250 | 16-14 | B | .032 x .250 | .14 | .87 | .32 | .234 | .070 |
| FR6C250 * | 12-10 | Y | .032 x .250 | .25 | .97 | .31 | .234 | .136 |

*Not UL listed or recognized †CSA Certified

COPPER PENN-CRIMPS® • TYPE MT

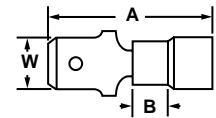
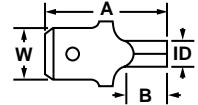


One piece, high grade copper alloy construction with electro-tin plating for corrosion resistance. Male tabs match female disconnects to provide strong, reliable slip-on interconnects without the use of tools. These and other features combine to guarantee a high quality connection.

NON-INSULATED MALE DISCONNECT

BUTTED SEAM

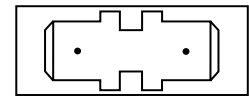
| Catalog Number | Copper Cond. Range | Tab Size (in) | Approximate Dimensions in Inches | | | |
|----------------|--------------------|---------------|----------------------------------|-----|------|------|
| | | | A | W | B | ID |
| MT1A250 * | 22-18 | .032 x .250 | .72 | .25 | .250 | .050 |
| MT1B187 * | 16-14 | .020 x .187 | .51 | .19 | .170 | .090 |
| MT1B250 * | 16-14 | .032 x .250 | .72 | .25 | .250 | .090 |
| MT1C250 * | 12-10 | .032 x .250 | .77 | .25 | .250 | .130 |



INSULATED MALE DISCONNECT

VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Tab Size (in) | Color Code (ins) | Max. Insul. Diam. | Approximate Dimensions in Inches | | | |
|----------------|--------------------|---------------|------------------|-------------------|----------------------------------|-----|------|------|
| | | | | | A | W | B | ID |
| MT4A250 | 22-18 | .032 x .250 | R | .14 | .97 | .25 | .250 | .050 |
| MT4B187 | 16-14 | .020 x .187 | B | .17 | .82 | .19 | .170 | .090 |
| MT4B250 | 16-14 | .032 x .250 | B | .17 | .97 | .25 | .250 | .090 |
| MT4C250 | 12-10 | .032 x .250 | Y | .25 | 1.05 | .25 | .250 | .130 |



MDT-250 COUPLER

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

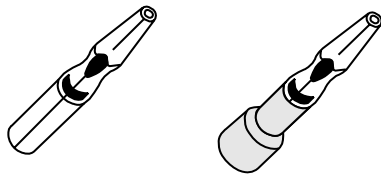
| Catalog Number | Copper Cond. Range | Tab Size (in) | Color Code (ins) | Max. Insul. Diam. | Approximate Dimensions in Inches | | | |
|----------------|--------------------|---------------|------------------|-------------------|----------------------------------|-----|------|------|
| | | | | | A | W | B | ID |
| MT6A250 | 22-18 | .032 x .250 | R | .14 | .94 | .25 | .250 | .050 |
| MT6B187 | 16-14 | .020 x .187 | B | .17 | .80 | .19 | .170 | .090 |
| MT6B250 | 16-14 | .032 x .250 | B | .17 | .94 | .25 | .250 | .090 |
| MT6C250 | 12-10 | .032 x .250 | Y | .25 | 1.05 | .25 | .250 | .130 |

ADAPTER AND COUPLER

| Catalog Number | Tab Size (In) |
|----------------|---------------|
| MDT-250 * | .032 x .250 |
| MMFA * | .032 x .250 |

TYPES SC AND LC

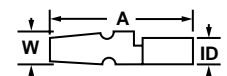
One piece, annealed, pure electrolytic copper construction, electro-tin plated for protection. Provides quick, reliable snap-on interconnections without tools. Available non-insulated or with NEMA color coded nylon or vinyl insulation. Insulation is flared for wire insulation support.



NON-INSULATED MALE SNAP PLUGS

BUTTED SEAM

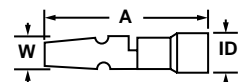
| Catalog Number | Copper Cond. Range | Stock Size (in) | Stud Size | Approximate Dimensions in Inches | | |
|----------------|--------------------|-----------------|-----------|----------------------------------|------|------|
| | | | | A | W | ID |
| SC1A * | 22-18 | .020 | .156 | .71 | .156 | .064 |
| SC1B * | 16-14 | .030 | .156 | .60 | .156 | .090 |
| LC1B * | 16-14 | .030 | .176 | .57 | .176 | .090 |



INSULATED MALE SNAP PLUG

VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stock Size (in) | Stud Size | Color Code (Ins) | Max. Insul. Diam. | Approximate Dimensions in Inches | | |
|----------------|--------------------|-----------------|-----------|------------------|-------------------|----------------------------------|------|------|
| | | | | | | A | W | ID |
| SC4A * | 22-18 | .020 | .156 | R | .14 | .92 | .156 | .064 |
| SC4B * | 16-14 | .030 | .156 | B | .17 | .88 | .156 | .090 |
| LC4B * | 16-14 | .030 | .176 | B | .17 | .86 | .176 | .090 |

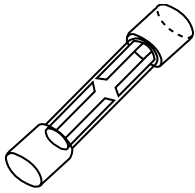


NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

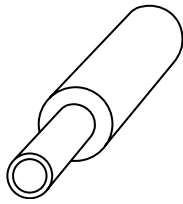
| | | | | | | | | |
|--------|-------|------|------|---|-----|-----|------|------|
| SC6A * | 22-18 | .020 | .156 | R | .14 | .92 | .156 | .064 |
| SC6B * | 16-14 | .030 | .156 | B | .17 | .90 | .156 | .090 |
| LC6B * | 16-14 | .030 | .176 | B | .17 | .88 | .176 | .090 |

*Not UL component recognized, nor certified for Canada.

COPPER PENN-CRIMPS® • TYPES FDC AND FSC



FDC



FSC

Nylon insulated, high strength spring quality connector. Locking feature provided to hold male snap plug securely in place while providing all the benefits of a two way quick disconnect. As with all Penn-Crimps the highest quality is assured.

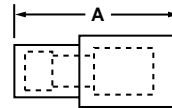
FEMALE CONNECTOR

DOUBLE

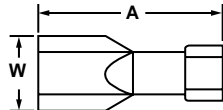
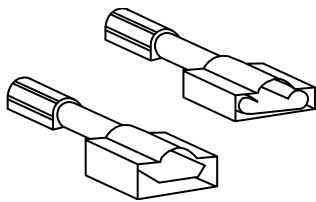
| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | |
|----------------|--------------------|-----------|-----------------|--------------------------|--|
| | | | | A | |
| FDC-156 | 16-14 | .156 | .020 | 1.38 | |

SINGLE

| | | | | | |
|-----------|-------|------|------|-------|--|
| FSCA-156F | 22-18 | .156 | .020 | 1.025 | |
| FSC-156F | 16-14 | .156 | .020 | 1.025 | |



COPPER PENN-CRIMPS® • TYPES CFR AND CM



Same high quality construction as Types FR and M female and male disconnects. Both CFR and CM disconnects feature full length nylon insulation which extends beyond the metal terminal insert to provide a completely insulated two piece connection, which is protected against accidental shorting. Exceeds UL standards to produce a high quality connection.

FULLY INSULATED MALE AND FEMALE DISCONNECTS

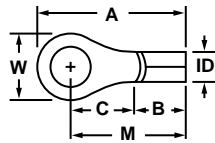
FEMALE

| Catalog Number | Copper Cond. Range | Tab Size (in) | Max. Insul. Diam. | Approximate Dimensions in Inches | | |
|----------------|--------------------|---------------|-------------------|----------------------------------|-----|------|
| | | | | A | W | ID |
| CFR4NA250F | 22-18 | .032 x .250 | .15 | .98 | .39 | .070 |
| CFR4NB250F | 16-14 | .032 x .250 | .18 | .98 | .39 | .090 |

MALE

| | | | | | | |
|------------|-------|-------------|-----|------|-----|------|
| CM4TNA250F | 22-18 | .032 x .250 | .15 | 1.02 | .47 | .050 |
| CM4TNB250F | 16-14 | .032 x .250 | .18 | 1.02 | .47 | .090 |

STEEL PENN-CRIMPS® • TYPE 9 HIGH TEMPERATURE TERMINALS

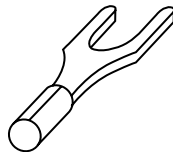


One piece, steel construction, nickel plated for protection. Capable of providing reliable circuitry in temperature ranges up to 900 degrees Fahrenheit. Structural features of all Type 9 terminals are identical to the Type 1, which proves that they will provide the highest quality connection. (For 1200°F applications contact the factory).

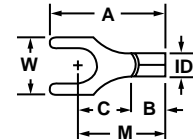
RING TERMINALS

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approximate Dimensions in Inches | | | | | |
|----------------|--------------------|-----------|-----------------|----------------------------------|-----|-----|-----|------|------|
| | | | | A | W | C | M | B | ID |
| R9A-6S | 22-18 | 6 | .030 | .65 | .25 | .28 | .54 | .250 | .070 |
| R9A-8 | 22-18 | 8 | .030 | .69 | .31 | .28 | .54 | .250 | .070 |
| R9A-10 | 22-18 | 10 | .030 | .69 | .31 | .28 | .54 | .250 | .070 |
| R9A-14S | 22-18 | 1/4 | .030 | .90 | .46 | .42 | .67 | .250 | .070 |
| R9B-6S | 16-14 | 6 | .030 | .65 | .25 | .28 | .54 | .250 | .090 |
| R9B-8 | 16-14 | 8 | .030 | .69 | .31 | .28 | .54 | .250 | .090 |
| R9B-10 | 16-14 | 10 | .030 | .69 | .31 | .28 | .54 | .250 | .090 |
| R9B-14S | 16-14 | 1/4 | .030 | .90 | .46 | .42 | .67 | .250 | .090 |
| R9C-6S | 12-10 | 6 | .040 | .67 | .28 | .28 | .53 | .250 | .130 |
| R9C-8 | 12-10 | 8 | .040 | .72 | .37 | .28 | .53 | .250 | .130 |
| R9C-10 | 12-10 | 10 | .040 | .72 | .37 | .28 | .53 | .250 | .130 |
| R9C-14S | 12-10 | 1/4 | .040 | .93 | .53 | .42 | .67 | .250 | .130 |
| R9C-56 | 12-10 | 5/16 | .040 | .99 | .60 | .42 | .67 | .250 | .130 |
| R9C-38 | 12-10 | 3/8 | .040 | .99 | .60 | .42 | .67 | .250 | .130 |

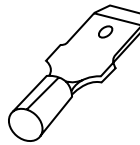


SPADE TERMINALS

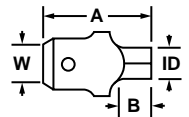
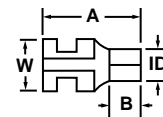


BUTTED SEAM

| | | | | | | | | | |
|--------|-------|----|------|-----|-----|-----|-----|------|------|
| S9A-10 | 22-18 | 10 | .030 | .70 | .35 | .25 | .52 | .250 | .070 |
| S9B-10 | 16-14 | 10 | .030 | .69 | .35 | .25 | .51 | .250 | .090 |
| S9C-10 | 12-10 | 10 | .040 | .75 | .38 | .28 | .53 | .250 | .130 |



MALE AND FEMALE DISCONNECTS



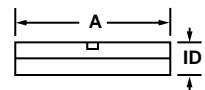
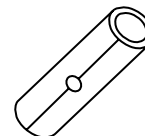
BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stock Size (in) | Approximate Dimensions in Inches | | | |
|----------------|--------------------|-----------------|----------------------------------|-----|------|------|
| | | | A | W | B | ID |
| FR9B250 | 16-14 | .032 x .250 | .63 | .31 | .234 | .090 |
| MT9B250 | 16-14 | .032 x .250 | .70 | .25 | .250 | .050 |
| FR9C250 | 12-10 | .032 x .250 | .63 | .31 | .234 | .170 |
| MT9C250 | 12-10 | .032 x .250 | .77 | .25 | .250 | .130 |

BUTT CONNECTORS

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Approximate Dimensions in Inches | |
|----------------|--------------------|----------------------------------|------|
| | | A | ID |
| B9A | 22-18 | .57 | .070 |
| B9B | 16-14 | .57 | .090 |
| B9C | 12-10 | .57 | .130 |



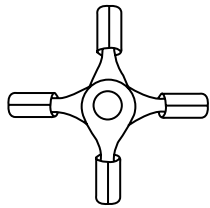
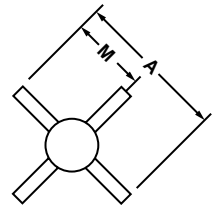
COPPER PENN-CRIMPS® • TYPES X AND Y

Pure electrolytic copper, multi-terminal construction allows either three or four wires to be quickly and securely connected. Generous entrance chamfers permit easier wire insertion. Available non-insulated or with NEMA color coded nylon or vinyl insulation. Quality crafted for the secure long-term dependability and performance which proves that Penn-Crimps provide the preferred connected.

NON-INSULATED 4 WAY CONNECTORS

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches | |
|----------------|--------------------|-----------|-----------------|--------------------------|-----|
| | | | | A | M |
| X1A | 22-18 | 4 way | .030 | 1.07 | .54 |
| X1B | 16-14 | 4 way | .030 | 1.07 | .54 |
| X1C | 12-10 | 4 way | .040 | 1.07 | .54 |



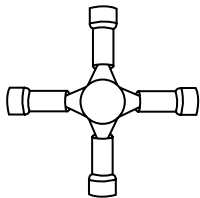
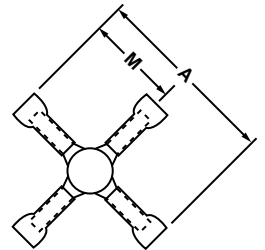
BRAZED SEAM

| | | | | | |
|-----|-------|-------|------|------|-----|
| X2A | 22-18 | 4 way | .030 | 1.07 | .54 |
| X2B | 16-14 | 4 way | .030 | 1.07 | .54 |
| X2C | 12-10 | 4 way | .040 | 1.07 | .54 |

INSULATED 4 WAY CONNECTORS

VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Approx. Dimen. in Inches | |
|----------------|--------------------|-----------|------------------|-----------------|--------------------------|-----|
| | | | | | A | M |
| X4A | 22-18 | 4 way | R | .030 | 1.54 | .77 |
| X4B | 16-14 | 4 way | B | .030 | 1.54 | .77 |
| X4C | 12-10 | 4 way | Y | .040 | 1.54 | .77 |



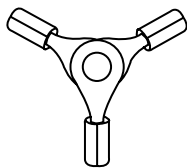
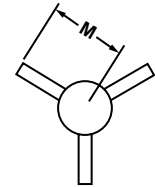
NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | |
|-----|-------|-------|---|------|------|-----|
| X6A | 22-18 | 4 way | R | .030 | 1.50 | .75 |
| X6B | 16-14 | 4 way | B | .030 | 1.56 | .78 |
| X6C | 12-10 | 4 way | Y | .040 | 1.66 | .83 |

NON-INSULATED 3 WAY CONNECTORS

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Approx. Dimen. in Inches |
|----------------|--------------------|-----------|-----------------|--------------------------|
| | | | | M |
| Y1A | 22-18 | 3 way | .030 | .54 |
| Y1B | 16-14 | 3 way | .030 | .54 |
| Y1C | 12-10 | 3 way | .040 | .54 |



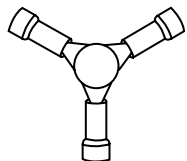
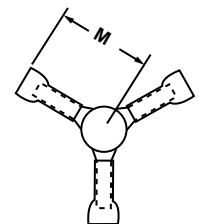
BRAZED SEAM

| | | | | |
|-----|-------|-------|------|-----|
| Y2A | 22-18 | 3 way | .030 | .54 |
| Y2B | 16-14 | 3 way | .030 | .54 |
| Y2C | 12-10 | 3 way | .040 | .54 |

INSULATED 3 WAY CONNECTORS

VINYL INSULATED - BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Stock Size (in) | Color Code (ins) | Approx. Dimen. in Inches |
|----------------|--------------------|-----------|-----------------|------------------|--------------------------|
| | | | | | M |
| Y4A | 22-18 | 3 way | .030 | R | .77 |
| Y4B | 16-14 | 3 way | .030 | B | .77 |
| Y4C | 12-10 | 3 way | .040 | Y | .77 |

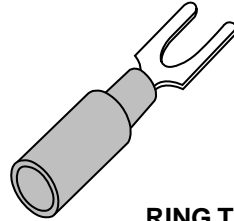
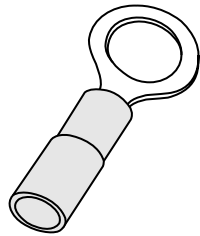
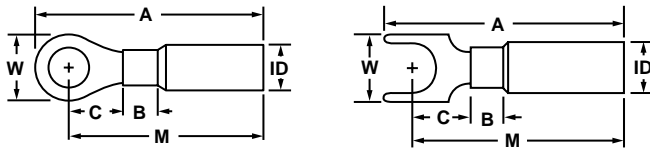


NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | |
|-----|-------|-------|------|---|-----|
| Y6A | 22-18 | 3 way | .030 | R | .75 |
| Y6B | 16-14 | 3 way | .030 | B | .78 |
| Y6C | 12-10 | 3 way | .040 | Y | .83 |

COPPER PENN-CRIMPS®

Preinsulated Heat Shrinkable Terminals and Splices



These heat shrinkable products provide a tough, environmentally sealed wire termination. These terminals and splices insulate and protect the electrical connections from wire pull-outs, abrasions and mechanical abuse. They also resist water, salt and other contaminants.

RING TERMINALS

BRAZED SEAM

| Catalog Number | Wire Size | Stud Size | Color Insul. | Approx. Dimen. in Inches | | | |
|----------------|-----------|-----------|--------------|--------------------------|------|------|-------|
| | | | | A | W | C | M |
| R6A-8HS | 22-18 | 8 | Red | 1.290 | .310 | .144 | 1.150 |
| R6A-10HS | 22-18 | 10 | Red | 1.214 | .330 | .180 | 1.035 |
| R6A-14HS | 22-18 | 1/4 | Red | 1.540 | .474 | .284 | 1.300 |
| R6A-56HS | 22-18 | 5/16 | Red | 1.550 | .556 | .310 | 1.280 |
| R6A-38HS | 22-18 | 3/8 | Red | 1.525 | .525 | .300 | 1.290 |
| R6B-8HS | 16-14 | 8 | Blue | 1.340 | .310 | .144 | 1.350 |
| R6B-10HS | 16-14 | 10 | Blue | 1.200 | .394 | .190 | 1.035 |
| R6B-14HS | 16-14 | 1/4 | Blue | 1.400 | .474 | .284 | 1.140 |
| R6B-56HS | 16-14 | 5/16 | Blue | 1.510 | .465 | .280 | 1.143 |
| R6B-38HS | 16-14 | 3/8 | Blue | 1.425 | .540 | .320 | 1.700 |
| R6C-8HS | 12-10 | 8 | Yellow | 1.306 | .310 | .144 | 1.175 |
| R6C-10HS | 12-10 | 10 | Yellow | 1.200 | .350 | .175 | 1.035 |
| R6C-14HS | 12-10 | 1/4 | Yellow | 1.467 | .550 | .340 | 1.200 |
| R6C-56HS | 12-10 | 5/16 | Yellow | 1.614 | .556 | .369 | 1.350 |
| R6C-38HS | 12-10 | 3/8 | Yellow | 1.470 | .560 | .350 | 1.160 |

SPADE TERMINALS

BRAZED SEAM

| | | | | | | | |
|----------|-------|----|--------|-------|------|------|-------|
| S6A-8HS | 22-18 | 8 | Red | 1.340 | .310 | .210 | 1.180 |
| S6B-8HS | 16-14 | 8 | Blue | 1.330 | .310 | .210 | 1.180 |
| S6B-10HS | 16-14 | 10 | Blue | 1.340 | .394 | .191 | 1.175 |
| S6C-8HS | 12-10 | 8 | Yellow | 1.359 | .318 | .175 | 1.160 |
| S6C-10HS | 12-10 | 10 | Yellow | 1.325 | .387 | .243 | 1.160 |

FEMALE DISCONNECTS (FOR .250 X .032 TABS)

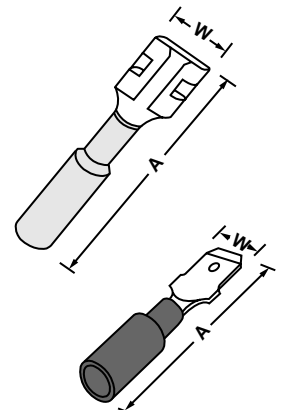
BUTTED SEAM

| Catalog Number | Wire Size | Stud Size | Color Insul. | Approx. Dimen. in Inches | |
|----------------|-----------|-----------|--------------|--------------------------|------|
| | | | | A | W |
| FR6A250-HS | 22-18 | | Red | 1.300 | .300 |
| FR6B250-HS | 16-14 | | Blue | 1.210 | .300 |

MALE DISCONNECTS

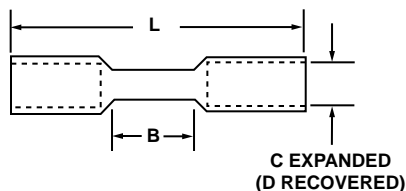
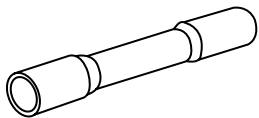
BUTTED SEAM

| | | | | | |
|------------|-------|--|------|-------|------|
| MT6A250-HS | 22-18 | | Red | 1.188 | .250 |
| MT6B250-HS | 16-14 | | Blue | 1.227 | .250 |



COPPER PENN-CRIMPS® PREINSULATED HEAT SHRINKABLE TERMINALS AND SPLICES

BUTT CONNECTORS



These heat shrinkable products provide a tough, environmentally sealed wire termination. These terminals and splices insulate and protect the electrical connections from wire pull-outs, abrasions and mechanical abuse. They also resist water, salt and other contaminants.

SEAMLESS

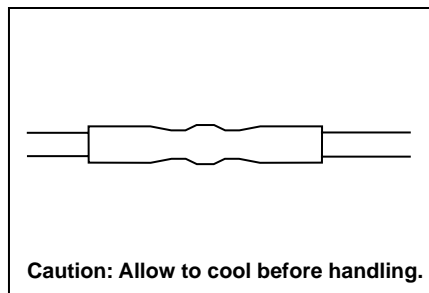
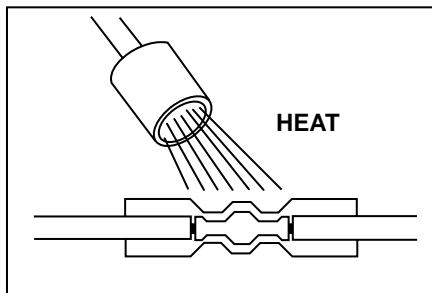
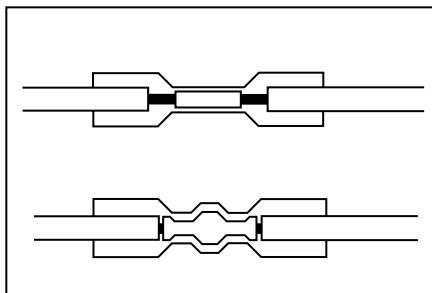
| Catalog Number | Wire Size | Color Insul. | Approx. Dimen. in Inches | | | |
|----------------|-----------|--------------|--------------------------|------|------|------|
| | | | L | B | C | D |
| B8A-HS | 22-18 | Red | 1.500 | .625 | .145 | .060 |
| B8B-HS | 16-14 | Blue | 1.500 | .665 | .180 | .080 |
| B8C-HS | 12-10 | Yellow | 1.600 | .790 | .250 | .115 |

CRIMPING INSTRUCTIONS

CRIMP TERMINATIONS

Strip the wire 1/4" and insert it into the barrel of the terminal. Match the color of the insulation with the color of the crimp cavity on the crimping tool.

Heat the crimped device with a heat gun until the tubing recovers and the adhesive melts and flows.



Caution: Allow to cool before handling.

BUTT TERMINATIONS

Strip the wire 3/8" and insert it into crimp barrel. Match the color of the insulation with the color of the crimp cavity on the crimping tool.

Heat the crimped device with a heat gun until the tubing recovers and the adhesive melts and flows.

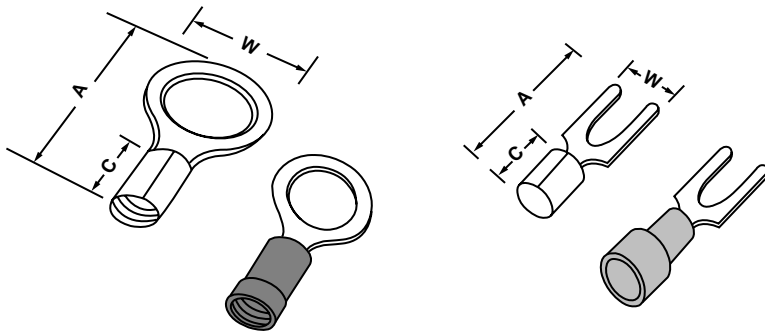
TYPICAL APPLICATIONS

Telecommunications
 Marine
 Automotive Wiring
 Mining
 Traffic Controls

Outdoor Lighting
 Aviation
 Submersible Pumps
 Refrigeration Equip.
 Generator Equip.

Boat Trailers
 Swimming Pools
 Underground Utilities
 Air Conditioner Systems
 Agricultural Equip.

COPPER PENN-CRIMPS® • TYPES R10, R60, S10, S60 MINIATURE TERMINALS



Same high quality construction as standard Type 1 and Type 6 terminals in smaller size to accommodate smaller wire ranges in confined areas.

NON-INSULATED RINGS

BUTTED SEAM

| Catalog Number | Copper Cond. Range | Stud Size | Color Code (ins) | Stock Size (in) | Approx. Dimen. in Inches | | |
|----------------|--------------------|-----------|------------------|-----------------|--------------------------|-----|-----|
| | | | | | A | W | C |
| R10-0 | 26-24 | 0 | | .020 | .41 | .14 | .17 |
| R10-2 | 26-24 | 2 | | .020 | .41 | .14 | .17 |
| R10-4 | 26-24 | 4 | | .020 | .50 | .20 | .22 |
| R10-6 | 26-24 | 6 | | .020 | .50 | .20 | .22 |
| R10-8 | 26-24 | 8 | | .020 | .59 | .25 | .29 |
| R10-10 | 26-24 | 10 | | .020 | .59 | .25 | .29 |

INSULATED RINGS

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | |
|--------|-------|----|---|------|-----|-----|-----|
| R60-0 | 26-24 | 0 | Y | .020 | .59 | .14 | .17 |
| R60-2 | 26-24 | 2 | Y | .020 | .59 | .14 | .17 |
| R60-4 | 26-24 | 4 | Y | .020 | .68 | .20 | .22 |
| R60-6 | 26-24 | 6 | Y | .020 | .68 | .20 | .22 |
| R60-8 | 26-24 | 8 | Y | .020 | .77 | .25 | .29 |
| R60-10 | 26-24 | 10 | Y | .020 | .77 | .25 | .29 |

NON-INSULATED SPADES

BUTTED SEAM

| | | | | | | | |
|-------|-------|---|--|------|-----|-----|-----|
| S10-0 | 26-24 | 0 | | .020 | .34 | .14 | .11 |
| S10-4 | 26-24 | 4 | | .020 | .48 | .20 | .21 |
| S10-6 | 26-24 | 6 | | .020 | .58 | .25 | .27 |

INSULATED SPADES

NYLON INSULATED - BUTTED SEAM WITH BRASS SLEEVE

| | | | | | | | |
|-------|-------|---|---|------|-----|-----|-----|
| S60-0 | 26-24 | 0 | Y | .020 | .50 | .14 | .11 |
| S60-4 | 26-24 | 4 | Y | .020 | .64 | .20 | .21 |
| S60-6 | 26-24 | 6 | Y | .020 | .75 | .25 | .27 |

NYLON CABLE TIES



Made from 100%, non-corrosive Nylon, for impact strength, abrasion resistance, versatility and self-extinguishing qualities. Bent-tip design allows for easier handling and installation. Carbon Black Nylon maintains the same properties as natural colored Nylon, but has a special Carbon Black additive which greatly increases the Nylon's resistance to Ultraviolet rays, making them weather resistant.

MINIATURE CROSS-SECTION - 18 lbs. MIN. LOOP TENSILE STRENGTH

| Catalog Number | Max. Bundle Dia. In. | Approx. Length In. |
|--------------------------------|----------------------|--------------------|
| Natural Nylon TY4-18 | 7/8 | 4 |
| Carbon Black Nylon TY4-18-B | 7/8 | 4 |

INTERMEDIATE CROSS-SECTION 30 - 40 lbs. MIN. LOOP STRENGTH

| | | |
|----------------------------------------------|------------|----------|
| Natural Nylon TY5.5-30 TY8-40 | 1 1/4 2 | 5.5 8 |
| Carbon Black Nylon TY5.5-30-B TY8-40-B | 1 1/4 2 | 5.5 8 |

STANDARD CROSS-SECTION - 50 lbs. MIN. LOOP STRENGTH

| | | |
|------------------------------------------------------------|-----------------|-----------------|
| Natural Nylon TY7.5-50 TY11-50 TY15-50 | 1 3/4 3 4 | 7.5 11 15 |
| Carbon Black Nylon TY7.5-50-B TY11-50-B TY15-50-B | 1 3/4 3 4 | 7.5 11 15 |

HEAVY CROSS-SECTION (AND LIGHT-HEAVY) - 120 lbs. MIN. LOOP TENSILE STRENGTH

| | | |
|------------------------------------|---|------|
| Natural Nylon TY14.5-120 | 4 | 14.5 |
| Carbon Black Nylon TY14.5-120-B | 4 | 14.5 |

150 lbs. MIN. LOOP TENSILE STRENGTH

| | | |
|----------|----|----|
| TY21-150 | 6 | 21 |
| TY36-150 | 11 | 36 |
| TY42-150 | 13 | 42 |

NYLON MOUNTING CABLE TIES

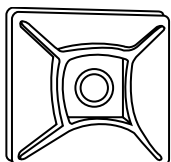
STANDARD CROSS-SECTION - 50 lbs. MIN. LOOP TENSILE STRENGTH

| Catalog Number | Max. Bundle Dia. In. | Approx. Length In. | Mounting Stud |
|----------------|----------------------|--------------------|---------------|
| MTY7.5-50 | 1 3/4 | 7.5 | #10 |

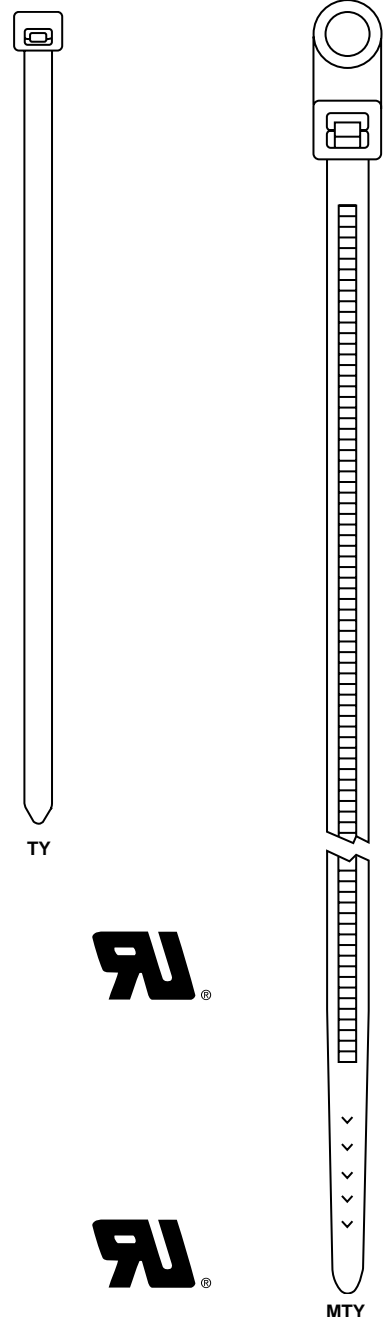
HEAVY DUTY CROSS-SECTION - 120 lbs. MIN. LOOP TENSILE STRENGTH

| | | | |
|-------------|---|------|-----|
| MTY14.8-120 | 4 | 14.8 | 1/4 |
|-------------|---|------|-----|

NYLON CABLE TIE MOUNTS



TYM-1
1" (25 mm)



These acrylic, adhesive-backed mounts are made of Type 6 Nylon for high impact and tensile strength. Peel-off strip on back allows faster and easier separation from the backing while the four-way tie insertion provides quick assembly. Available in natural color. Exceeds standards for UL component recognition.

PENN-CRIMPS® TERMINAL KITS • TYPES MK 40-MK 71, & PK 50NT-PK 58



MK 42



MK 70



MK 71



PK 55



PK 57



PK 58

The MK kits come with a variety of terminals and connectors for industrial, commercial, maintenance, construction and general use purposes. The kits are packaged in a rugged, heavy duty, hinged metal box.

| Catalog Number | Description |
|----------------|-------------------------------------------------------------------------------------------------------------------------|
| MK-40 | Metal Kit Box with Scoop Compartments |
| MK-41 | Metal Kit Box with Scoop Compartments and HTS-1440 Crimping Tool |
| MK-42 | Metal Kit Box with Scoop Compartments, HTS-1440 Crimping Tool and 500 Assorted Vinyl Insulated Terminals and Connectors |
| MK-43 | Metal Kit Box with Scoop Compartments, HTS-1440 Tool and 1000 Assorted Non-Insulated Terminals and Connectors |
| MK-70 | Metal Kit Box with Scoop Compartments, 100 7 1/2" Cable Ties and 1155 Assorted Vinyl Insulated Terminals and Connectors |
| MK-71 | Metal Kit Box with Scoop Compartments, HTS 1440 Tool and 1155 Assorted Vinyl Insulated Terminals and Connectors |

| Catalog Number | Description |
|----------------|------------------------------------------------------------------------------------------------|
| PK-50NT | Kit, No Tool 18 Popular Vinyl Items |
| PK-55 | HVAC/R Maintenance and Repair Kit 18 popular items |
| PK-57 | Hi-Temp Terminal Kit 12 popular Items (900°F) |
| PK-58 | 10 popular Items (900°F) 2 popular Porcelain Wire Nuts 1 roll High Temp Glass cloth tape |

PENN-NUTS • PN SERIES CONNECTORS, KNURLED AND WING STYLE



KNURLED STYLE:

| Cat. No. | Color | Application | OAL |
|----------|--------|------------------------------------------------------|------|
| PNGK | Grey | *#22 to #16 AWG Min: 1 #20 w/1 #22 Max: 2 #16 | .58 |
| PNBK | Blue | *#22 to #16 AWG Min: 3 #22 Max: 3 #16 | .70 |
| PNOK | Orange | **#22 to #14 AWG Min: 3 #20 Max: 4 #16 & 1 #20 | .84 |
| PNYK | Yellow | **#18 to #10 AWG Min: 1 #14 & 1 #18 Max: 4 #14 | .94 |
| PNRK | Red | **#18 to #10 AWG Min: 2 #14 Max: 2 #10 & 2 #12 | 1.06 |

*Connections rated at 300 V Max.

**Connections rated at 300 V Max. and 600 V Max. Connections rated at 600+ V Max. for Building Wiring are rated at 1000V Max. in Fixtures and Signs.

The range of wire combinations fills the requirements of many of the more typical connections made.

Knurled style offers the industry's standard screw-on connector. Winged style offers a high-leverage easy on live spring design.

Available in packages of either kegs (containing polybags), boxes, or clamshells.

Standard packaging in boxes of 1,000, 100, and as bulk packed kegs of poly bags of 500 (250 for PNRK). 1,000 and 100 quantity boxes are available by using a suffix of "-M" (for 1,000) or "-C" (for 100).

All of the Penn-Nuts are UL listed and have a temperature rating of 105°C (221°F).

WINGED STYLE:

| Cat. No. | Color | Application | OAL |
|----------|--------|----------------------------------------------|------|
| PNYW | Yellow | **#22 to #10 AWG Min: 2 #18 Max: 3 #12 | 1.03 |
| PNRW | Red | **#18 to #10 AWG Min: 2 #14 Max: 5 #12 | 1.25 |

INSULATION DISPLACEMENT CONNECTORS PENN-LOKS • TYPE PL



- Pre-insulated connector
- Multiple tap and splice applications
- Easy to use
- No need to strip insulation
- Quick to install
- No twisting of wires required
- Color coded for quick identification
- Installed with common pliers
- Hinged cover locks securely

| Catalog Number | Conductor Size Range | Color Code |
|----------------|----------------------|------------|
| PLA | 22-18 STR. CU. | Red |
| PLB | 18-14 STR. CU. | Blue |
| PLC | 12-10 STR. CU. | Yellow |

PENN-CRIMPS® CRIMPING TOOLS • TYPES HTS 1440 & HTC



HTS 1440

GENERAL PURPOSE MAINTENANCE

Crimps insulated and non-insulated #22-10 wire size, bolt cutter, thread chaser, wire stripper and has cushioned plastic handles.

| Catalog Number | Description |
|----------------|------------------------|
| HTS-1440 | General Purpose Crimps |



HTC

HEAVY DUTY, RATCHET TYPE, FULL CYCLE CRIMPING TOOL

| Catalog Number | Description |
|----------------|----------------------------------------------|
| HTC-3000 | Ratchet Double Crimp Insulated Terminals |
| HTC-3100 | Ratchet Single Crimp Non-Insulated Terminals |
| HTC-3200 | Ratchet Single Crimp Insulated Terminals |
| HTC-3500 | Ratchet Double Crimp Type FR4 Disconnects |

ALUMINUM SOLDERLESS LUGS • TYPE LA

One hole, front entrance copper or aluminum conductors 600 Volt Rated



486B
LISTED
AL9CU

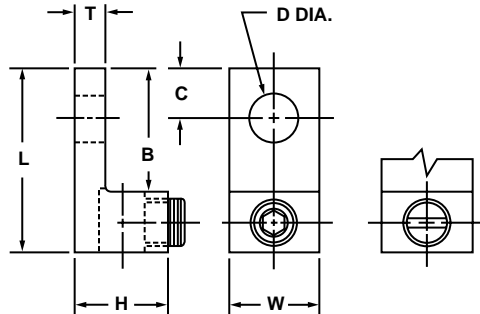


FIG. 2

FIG. 1

Body, fabricated from high strength aluminum alloy extrusion.
Lug is 100% reusable using either screw driver or hex wrench.
No special tools required.

Maximum conductivity, compact design light weight with ultimate strength.

Finish, electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire. (For added protection apply Penn-Union Cual-Aid® to cable before installation.)

Standard stud hole sizes and locations are shown on chart.

| Catalog Number | Torque Value In-Lbs. | Wire Range‡ | Fig. No. | Approximate Dimensions | | | | | | |
|----------------|----------------------|-------------|----------|---------------------------------|-------------------------------|---------------------------------|--------------------------------|---------------------------------|----------------------------------|----------------------------------|
| | | | | L in | W in | H in | T in | B in | C in | D Dia. in |
| LA-6 | 45 | 14-6 | 1 | 1 ¹ / ₁₆ | 1 ¹ / ₂ | 1 ¹ / ₂ | 3 ³ / ₃₂ | 11 ¹ / ₁₆ | 1 ¹ / ₄ | 17 ¹ / ₆₄ |
| LA-2 | 50 | 14-2 | 1 | 1 ⁵ / ₃₂ | 1 ¹ / ₂ | 35 ⁵ / ₆₄ | 7 ⁷ / ₆₄ | 11 ¹ / ₁₆ | 5 ⁵ / ₁₆ | 17 ¹ / ₆₄ |
| LA-0 | 50 | 14-1/0 | 1 | 1 ¹⁵ / ₃₂ | 5 ⁵ / ₈ | 25 ⁵ / ₃₂ | 3 ³ / ₁₆ | 27 ⁷ / ₃₂ | 27 ⁷ / ₆₄ | 17 ¹ / ₆₄ |
| LA-2/0 | 120 | 14-2/0 | 2 | 1 ¹⁵ / ₃₂ | 5 ⁵ / ₈ | 51 ⁵ / ₆₄ | 3 ³ / ₁₆ | 27 ⁷ / ₃₂ | 7 ⁷ / ₁₆ | 17 ¹ / ₆₄ |
| LA-250 | 275 | 6-250 | 2 | 2 | 1 | 1 ¹ / ₈ | 1 ¹ / ₄ | 1 | 29 ²⁹ / ₆₄ | 21 ²¹ / ₆₄ |
| LA-350 | 275 | 6-350 | 2 | 2 ¹ / ₄ | 1 ¹ / ₈ | 1 ¹ / ₄ | 1 ¹ / ₄ | 1 ¹ / ₈ | 1 ¹ / ₂ | 13 ¹³ / ₃₂ |
| LA-500 | 375 | 4-500 | 2 | 2 ¹³ / ₁₆ | 1 ¹ / ₄ | 1 ⁹ / ₁₆ | 5 ⁵ / ₁₆ | 1 ⁹ / ₁₆ | 7 ⁷ / ₈ | 13 ¹³ / ₃₂ |
| LA-600 | 375 | 2-600 | 2 | 3 ³ / ₁₆ | 1 ¹ / ₂ | 1 ⁹ / ₁₆ | 7 ⁷ / ₁₆ | 1 ¹³ / ₁₆ | 25 ²⁵ / ₃₂ | 13 ¹³ / ₃₂ |
| LA-800 | 375 | 300-800 | 2 | 3 ¹ / ₂ | 1 ³ / ₄ | 1 ¹⁵ / ₁₆ | 1 ¹ / ₂ | 1 ⁷ / ₈ | 13 ¹³ / ₁₆ | 21 ²¹ / ₃₂ |
| LA-1000 | 375 | 500-1000 | 2 | 3 ¹ / ₂ | 1 ³ / ₄ | 1 ¹⁵ / ₁₆ | 1 ¹ / ₂ | 1 ⁷ / ₈ | 13 ¹³ / ₁₆ | 21 ²¹ / ₃₂ |

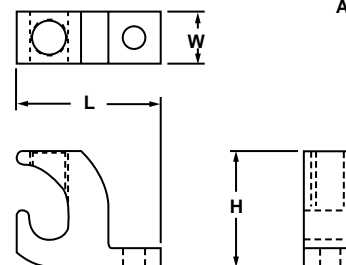
‡For conversion to metric range, see page 175.

ALUMINUM LAY-IN LUGS • TYPE LI

One hole, side entrance copper or aluminum continuous conductors



486B
LISTED
AL9CU



| Catalog Number | Wire Diameter Range | Approximate Dimensions | | | Screw Type |
|----------------|---------------------|-----------------------------------|------------------------------------|------------------------------------|------------|
| | | L | W | H | |
| LI-50S | 14-4 | 1 ¹ / ₁₆ " | 3 ³ / ₈ " | 25 ²⁵ / ₃₂ " | Slot |
| LI-112S | 14-1/0 | 1 ¹ / ₂ " | 19 ¹⁹ / ₃₂ " | 1 ¹¹ / ₆₄ " | Slot |
| LI-200S | 6-3/0 | 2" | 51 ⁵¹ / ₆₄ " | 1 ⁹ / ₁₆ " | Socket |
| LI-252S | 6-250 | 2 ¹³ / ₆₄ " | 51 ⁵¹ / ₆₄ " | 1 ⁵¹ / ₆₄ " | Socket |

Body, fabricated from high strength aluminum alloy extrusion.

Finish, electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire. (For added protection apply Penn-Union Corp. Cual-Aid® to cable before installation.)

The side entrance design permits the quick installation of one continuous conductor as a jumper to multiple locations without a break in the conductor. Excellent choice for use on grounding conductors.

ALUMINUM SOLDERLESS LUGS • TYPE L2A

One hole front entrance copper or aluminum conductors



486B
LISTED
AL9CU

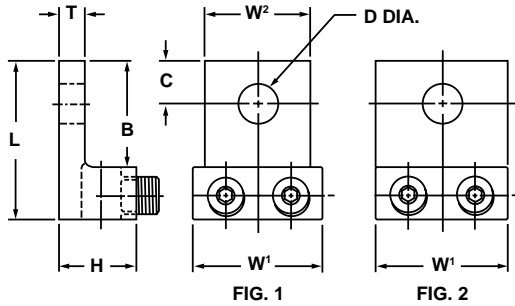


Body, fabricated from high strength aluminum alloy extrusion.

Lug is 100% reusable using either screw driver or hex wrench. No special tools required.

Maximum conductivity, compact design, light weight with ultimate strength.

Finish, electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire. (For added protection apply Penn-Union Cual-Aid® to cable before installation.)

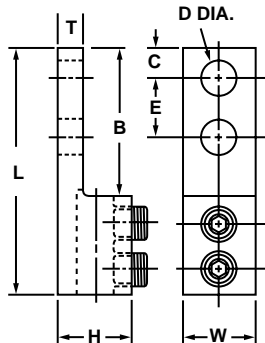


| Catalog Number | Torque Value In-Lbs. | Wire Range‡ | Fig. No. | Approximate Dimensions | | | | | | | | |
|----------------|----------------------|-------------|----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|
| | | | | L in | W ¹ in | W ² in | H in | T in | B in | C in | D Dia. in | |
| L2A-0 | 120 | 14-1/0 | 2 | 1 ¹⁵ / ₃₂ | 1 ¹ / ₈ | — | 2 ⁵ / ₃₂ | 3 ³ / ₁₆ | 2 ⁷ / ₃₂ | 7 ⁷ / ₁₆ | 1 ⁷ / ₆₄ | |
| L2A-2/0 | 120 | 14-2/0 | 2 | 1 ¹⁵ / ₃₂ | 1 ¹ / ₄ | — | 2 ⁵ / ₃₂ | 3 ³ / ₁₆ | 2 ⁷ / ₃₂ | 2 ⁷ / ₆₄ | 1 ⁷ / ₆₄ | |
| L2A-250 | 275 | 6-250 | 2 | 2 ⁹ / ₁₆ | 1 ⁴¹ / ₆₄ | — | 1 ³ / ₁₆ | 1 ¹ / ₄ | 1 ⁹ / ₁₆ | 7 ⁷ / ₈ | 1 ³ / ₃₂ | |
| L2A-350 | 275 | 6-350 | 1 | 2 ⁷ / ₈ | 1 ¹⁵ / ₁₆ | 1 ³ / ₄ | 1 ¹ / ₄ | 1 ¹ / ₄ | 1 ³ / ₄ | 9 ⁹ / ₁₆ | 1 ⁷ / ₃₂ | |
| L2A-500* | 500 | 4-500 | 1 | 3 ¹ / ₈ | 2 ³ / ₈ | 1 ⁶³ / ₆₄ | 1 ⁹ / ₁₆ | 7 ⁷ / ₁₆ | 1 ³ / ₄ | 5 ⁵ / ₈ | 1 ⁷ / ₃₂ | |
| L2A-600 | 550 | 2-600 | 1 | 3 ¹ / ₈ | 2 ³ / ₈ | 1 ⁶³ / ₆₄ | 1 ⁹ / ₁₆ | 7 ⁷ / ₁₆ | 1 ³ / ₄ | 5 ⁵ / ₈ | 1 ⁷ / ₃₂ | |
| L2A-800 | 375 | 350-800 | 2 | 3 ¹ / ₂ | 3 ¹ / ₂ | — | 1 ¹⁵ / ₁₆ | 1 ¹ / ₂ | 1 ⁷ / ₈ | 7 ⁷ / ₈ | 2 ¹ / ₃₂ | |
| L2A-1000 | 375 | 500-1000 | 2 | 3 ¹ / ₂ | 3 ¹ / ₂ | — | 1 ¹⁵ / ₁₆ | 1 ¹ / ₂ | 1 ⁷ / ₈ | 7 ⁷ / ₈ | 2 ¹ / ₃₂ | |

‡For conversion to metric range, see page 175. *Not CSA Certified.

ALUMINUM SOLDERLESS LUGS • TYPE LLA2

Two hole front entrance copper or aluminum conductors



Body, fabricated from high strength aluminum alloy extrusion.

Lug is 100% reusable using either screw driver or hex wrench. No special tools required.

Maximum conductivity, compact design, light weight with ultimate strength.

Finish, electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire. (For added protection apply Penn-Union Cual-Aid® to cable before installation.)

| Catalog Number | Torque Value In-Lbs. | Wire Range‡ | Approximate Dimensions | | | | | | | |
|----------------|----------------------|-------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|-------------------------------|
| | | | L in | W in | H in | T in | B in | C in | D Dia. in | E in |
| LLA2-500-S1 | 275 | 4/0-500 | 5 ¹ / ₂ | 1 ¹ / ₄ | 1 ¹ / ₂ | 5 ⁵ / ₁₆ | 3 ³ / ₄ | 1 ¹ / ₂ | 9 ⁹ / ₁₆ | 1 ³ / ₄ |
| LLA2-750-S1 | 275 | 400-750 | 6 ³ / ₁₆ | 1 ¹ / ₂ | 1 ⁷ / ₈ | 9 ⁹ / ₁₆ | 3 ⁷ / ₁₆ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ³ / ₄ |

‡For conversion to metric range, see page 175.

ALUMINUM SOLDERLESS LUGS • TYPES LA, L2A, L3A, LA4M4 AND LA4D4

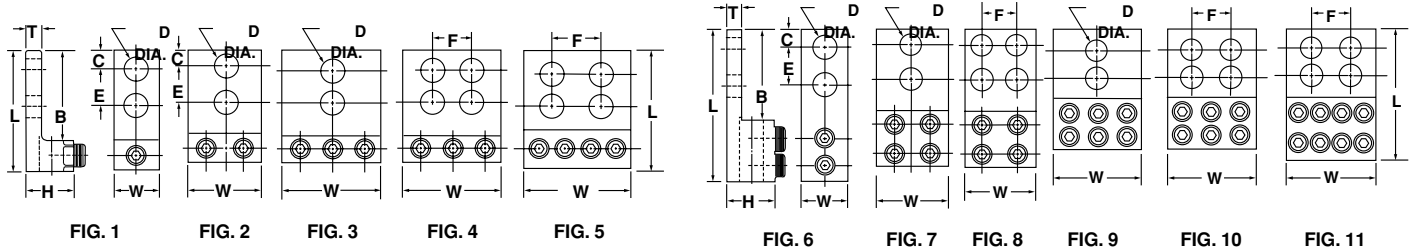
Two and four hole, front entrance copper or aluminum conductors



486 B
LISTED
AL9 CU



Penn-Union solderless lugs are made from high strength aluminum alloy, electro-tin plated to assure minimum contact resistance and corrosion protection. Manufactured to insure both maximum strength and conductivity, they are dual rated for both copper and aluminum conductors. These re-usable connectors need only a hex wrench for assembly. All four-hole pads are NEMA drilled for 1/2" bolts on 1 3/4" centers. For added protection apply Penn-Union Cual-Aid® to cable before installation.



| Catalog Number | Torque Value In-Lbs. | Wire Range | Fig. No. | Approximate Dimensions | | | | | | | | |
|-------------------------|----------------------|------------|----------|---------------------------------|---------------------------------|--------------------------------|------|--------------------------------|------|-----------|-------------------------------|-------------------------------|
| | | | | L in | W in | H in | T in | B in | C in | D Dia. in | E in | F in |
| SINGLE CONDUCTOR | | | | | | | | | | | | |
| LA-350-2 | 375 | 6-350 | 1 | 4 ³ / ₁₆ | 1 ¹ / ₈ | 1 ¹ / ₄ | 1/4 | 3 ¹ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| LA-600-2 | 500 | 2-600 | 1 | 4 ¹¹ / ₁₆ | 1 ¹ / ₂ | 1 ⁹ / ₁₆ | 7/16 | 3 ⁵ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| LA-800-2 | 375 | 350-800 | 6 | 6 ³ / ₁₆ | 1 ³ / ₄ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| LA-1000-2 | 500 | 500-1000 | 6 | 6 ³ / ₁₆ | 1 ³ / ₄ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| TWO CONDUCTOR | | | | | | | | | | | | |
| L2A-350-2 | 375 | 6-350 | 2 | 4 ³ / ₁₆ | 1 ¹⁵ / ₁₆ | 1 ¹ / ₄ | 1/4 | 3 ¹ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| L2A-600-2 | 500 | 2-600 | 2 | 4 ¹¹ / ₁₆ | 2 ⁷ / ₁₆ | 1 ⁹ / ₁₆ | 7/16 | 3 ⁵ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| L2A-800-2 | 500 | 300-800 | 7 | 6 ³ / ₁₆ | 3 ¹ / ₂ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| L2A-800-4 | 500 | 300-800 | 8 | 6 ³ / ₁₆ | 3 ¹ / ₂ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| L2A-1000-2 | 500 | 500-1000 | 7 | 6 ³ / ₁₆ | 3 ¹ / ₂ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| L2A-1000-4 | 500 | 500-1000 | 8 | 6 ³ / ₁₆ | 3 ¹ / ₂ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| THREE CONDUCTOR | | | | | | | | | | | | |
| L3A-250-2 | 275 | 6-250 | 3 | 4 | 3 | 1 ³ / ₁₆ | 5/16 | 3 | 5/8 | 9/16 | 1 ³ / ₄ | — |
| L3A-250-4 | 275 | 6-250 | 4 | 4 | 3 | 1 ³ / ₁₆ | 5/16 | 3 | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| L3A-350-2* | 275 | 6-350 | 3 | 4 ³ / ₁₆ | 3 | 1 ¹ / ₈ | 1/4 | 3 ¹ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| L3A-350-4* | 275 | 6-350 | 4 | 4 ³ / ₁₆ | 3 | 1 ¹ / ₈ | 1/4 | 3 ¹ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| L3A-500-2 | 375 | 2-500 | 3 | 4 ⁵ / ₈ | 3 ³ / ₄ | 1 ⁹ / ₁₆ | 7/16 | 3 ³ / ₈ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| L3A-500-4 | 375 | 2-500 | 4 | 4 ¹¹ / ₁₆ | 3 ³ / ₄ | 1 ⁹ / ₁₆ | 7/16 | 3 ⁵ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| L3A-800-2* | 500 | 300-800 | 9 | 6 ³ / ₁₆ | 4 ¹ / ₄ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | — |
| L3A-800-4* | 500 | 300-800 | 8 | 6 ³ / ₁₆ | 3 ¹ / ₂ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| FOUR CONDUCTOR | | | | | | | | | | | | |
| LA4M4-250 | 275 | 6-250 | 5 | 4 | 4 ³ / ₆₄ | 1 ³ / ₁₆ | 5/16 | 3 | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| LA4M4-350 | 275 | 6-350 | 5 | 4 ¹ / ₂ | 4 ²³ / ₃₂ | 1 ³ / ₈ | 5/16 | 3 ¹ / ₄ | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| LA4D4-600 | 375 | 2-600 | 11 | 5 ¹ / ₂ | 5 ²¹ / ₃₂ | 1 ¹ / ₂ | 3/8 | 3 ¹ / ₄ | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |
| LA4D4-800 | 500 | 350-800 | 11 | 6 ³ / ₁₆ | 7 ⁵ / ₃₂ | 1 ⁷ / ₈ | 9/16 | 3 ⁷ / ₁₆ | 5/8 | 9/16 | 1 ³ / ₄ | 1 ³ / ₄ |

*Not UL Listed
*Not CSA Certified

ALUMINUM STACKED NEUTRAL BARS • TYPE SNB

For aluminum or copper conductors



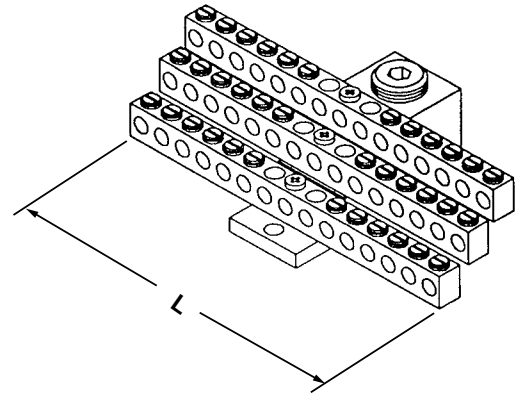
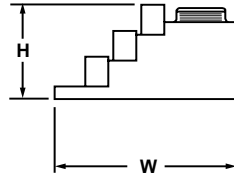
SNB



R-16

Stacking lugs and neutral bars are made from high strength aluminum alloy tin plated for bimetalic applications.

The stacking lugs are UL 486B listed AL9CU. The neutral bars are UL Component Recognized.



| Catalog Number | Conductor Range | | | | Number of Taps | Approximate Dimensions | | | | | |
|----------------|---------------------------------------------------------------------------------------|-----------------|------|-----------------|----------------|------------------------|-------|------|--------|------|-------|
| | Main | | Tap | | | H | | W | | L | |
| | AWG | MM ² | AWG | MM ² | | in | mm | in | mm | in | mm |
| SNB350-12 | 6-350 MCM | 16-185 | 14-6 | 1.5-16 | 12 | 1.53 | 38.86 | 4.72 | 119.89 | 2.81 | 71.37 |
| SNB350-24 | 6-350 MCM | 16-185 | 14-6 | 1.5-16 | 24 | 1.53 | 38.86 | 4.72 | 119.89 | 2.81 | 71.37 |
| SNB350-30 | 6-350 MCM | 16-185 | 14-6 | 1.5-16 | 30 | 1.53 | 38.86 | 4.72 | 119.89 | 2.81 | 71.37 |
| SNB350-36 | 6-350 MCM | 16-185 | 14-6 | 1.5-16 | 36 | 1.53 | 38.86 | 4.72 | 119.89 | 2.81 | 71.37 |
| SNB350-42 | 6-350 MCM | 16-185 | 14-6 | 1.5-16 | 42 | 1.53 | 38.86 | 5.34 | 135.64 | 2.81 | 71.37 |
| R-16 | Mounting block of general purpose phenolic suitable for mounting any SNB neutral bars | | | | | 1.00 | 25.40 | 2.5 | 63.5 | 2.5 | 63.5 |

COPPER NEUTRAL BARS • TYPE N70

For copper conductors only



Neutral bars are made from high strength pure electrolytic copper for maximum strength and maximum conductivity.

The copper neutral bars are UL Recognized and CSA Certified. Each bar has two mounting holes 0.20" in diameter or 5.08 mm.

N70-174 sold without screws. 7/16" long zinc plated, chromate dipped steel screws, catalog number E-153 are sold separately.

| Catalog Number | Conductor Range | | | | Number of Taps | Approximate Dimensions | | | | | |
|----------------|-----------------|-----------------|------|-----------------|----------------|------------------------|-------|-----|------|-------|--------|
| | Main | | Tap | | | H | | W | | L | |
| | AWG | MM ² | AWG | MM ² | | in | mm | in | mm | in | mm |
| N70-10-1 | 14-4 | 1.5-16 | 14-6 | 1.5-16 | 8 | .47 | 11.94 | .34 | 8.64 | 4.37 | 111.00 |
| N70-12-1 | 14-4 | 1.5-16 | 14-6 | 1.5-16 | 10 | .47 | 11.94 | .34 | 8.64 | 5.15 | 130.81 |
| N70-14-1 | 14-4 | 1.5-16 | 14-6 | 1.5-16 | 12 | .47 | 11.94 | .34 | 8.64 | 5.94 | 150.88 |
| N70-16-1 | 14-4 | 1.5-16 | 14-6 | 1.5-16 | 14 | .47 | 11.94 | .34 | 8.64 | 6.75 | 171.45 |
| N70-174 | 14-4 | 1.5-16 | 14-6 | 1.5-16 | 174 | .47 | 11.94 | .34 | 8.64 | 69.00 | 1752.6 |

ALUMINUM SPLICER-REDUCER • TYPE SR

Copper or aluminum conductors



486 B
LISTED
AL9 CU



- Body, fabricated from high strength aluminum alloy
- Solid center barrier
- Electro tin plated
- Rounded corner for easy taping

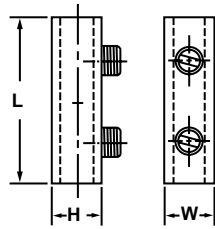


FIG. 1

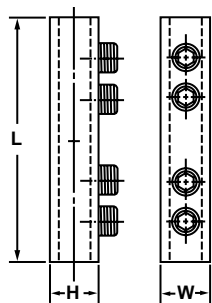


FIG. 2

| Catalog Number | Torque Value In-Lbs. | Fig. | Conductor Range | Approximate Dimensions | | |
|----------------|----------------------|------|-----------------|------------------------|-------|---------|
| | | | | H in | W in | L in |
| SR-2 | 50 | 1 | 14-2 | 3/16 | 1/2 | 1 3/8 |
| SR-0 | 50 | 1 | 14-1/0 | 3/4 | 3/4 | 1 29/32 |
| SR-250 | 275 | 2 | 6-250MCM | 1 1/8 | 1 | 3 15/16 |
| SR-250-2 | 275 | 1 | 6-250MCM | 1 1/8 | 1 | 1 15/16 |
| SR-350 | 275 | 2 | 6-350MCM | 1 3/16 | 1 1/8 | 4 3/16 |
| SR-350-2 | 275 | 1 | 6-350MCM | 1 3/16 | 1 1/8 | 2 5/8 |
| SR-500 | 375 | 2 | 2-500MCM | 1 1/2 | 1 3/8 | 5 |
| SR-750 | 375 | 2 | 250-750MCM | 1 3/4 | 1 5/8 | 6 1/4 |

ALUMINUM SOLDERLESS PANELBOARD LUGS • TYPE PB

For copper or aluminum conductors



486 B
LISTED
AL9 CU



Body, fabricated from high strength aluminum alloy extrusions. Lug is 100% re-usable using hex wrench. No special tools required.

Maximum conductivity, compact design, light weight with ultimate strength.

Finish, electro-tin plated to assure minimum contact resistance and protection against corrosion when used with copper wire. (For added protection apply Penn-Union Cual-Aid® to cable before installation.)

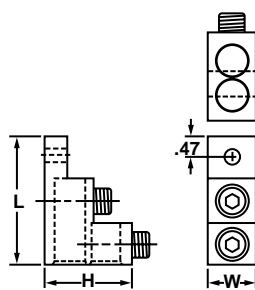


FIG. 1

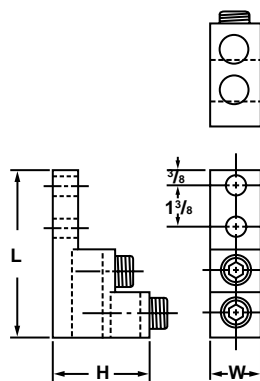


FIG. 2

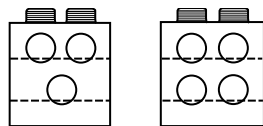


FIG. 3

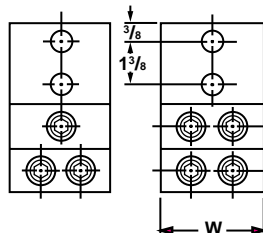
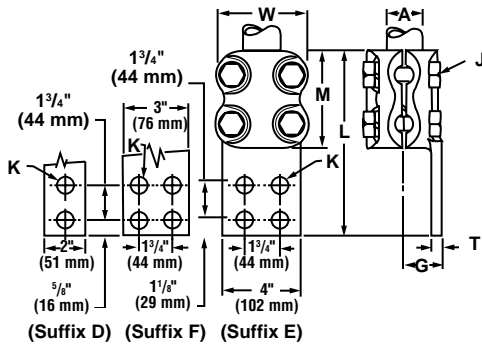


FIG. 4

| Catalog Number | Torque Value In-Lbs. | Fig. | No. of Conductors | Conductor Range | Stud Size | Approximate Dimensions | | |
|----------------|----------------------|------|-------------------|-----------------|-----------|------------------------|---------|---------|
| | | | | | | H in | W in | L in |
| PB2-300 | 275 | 1 | 2 | 6-300MCM | 5/16(1) | 2 | 1 | 3 |
| PB2-600 | 375 | 2 | 2 | 2-600MCM | 3/8(2) | 3 | 1 1/2 | 4 29/32 |
| PB2-750 | 375 | 2 | 2 | 1/0-750MCM | 3/8(2) | 3 | 1 9/16 | 4 29/32 |
| PB3-600 | 375 | 3 | 3 | 2-600MCM | 3/8(2) | 3 | 2 1/2 | 4 29/32 |
| PB3-750 | 375 | 3 | 3 | 1/0-750MCM | 3/8(2) | 3 | 2 27/32 | 4 29/32 |
| PB4-600 | 375 | 4 | 4 | 2-600MCM | 3/8(2) | 3 | 2 1/2 | 4 29/32 |
| PB4-750 | 375 | 4 | 4 | 1/0-750MCM | 3/8(2) | 3 | 2 27/32 | 4 29/32 |

ALUMINUM TERMINALS • TYPES RAA AND RAAC

Heavy Duty Tube to Flat



High strength electrical aluminum alloy.

Massive extra thick sections. Conforming contact grooves. Generous extra long contact lengths.

Large size, high strength, anodized and lubricated 2024T4 aluminum alloy clamping hardware.

Bolt heads pocketed for single wrench installation. Rounded contours.

NEMA drilling supplied. Other drilling, or undrilled, available on request.

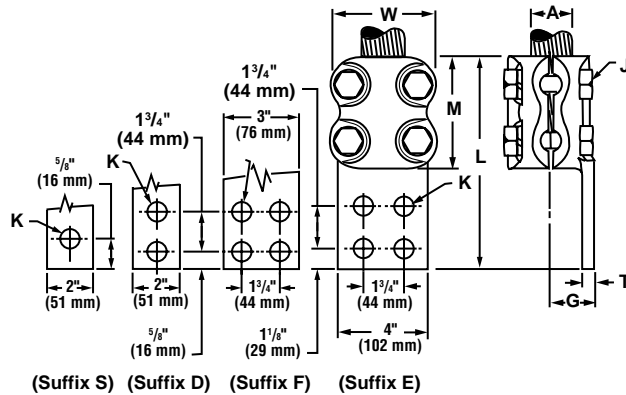
There may be some special operating conditions where copper flashed pad may be desired on the tongue. Add suffix "C" to the catalog designation. Example: RAAC-15-F. If tin plated terminals are preferred, add "-TN" to catalog numbers. Example: RAA-15-F-TN.

For tongue mounting hardware, suffix catalog number with "-TMH." Example: RAA-15-F-TMH. (Aluminum hardware provided for type RAA, steel hardware for type RAAC.)

| Catalog Number | Approximate Dimensions | | | | | | | | | | | | | |
|----------------|------------------------|---------|-----|---------------|------|----|--------|-----|-------|-----|--------|----|---------|-----|
| | A | G | | J | K | | L | | M | | T | | W | |
| | Aluminum IPS | in | mm | Bolt Diameter | in | mm | in | mm | in | mm | in | mm | in | mm |
| RAA-07-D | 3/4 | 1 3/16 | 30 | 1/2 | 9/16 | 14 | 6 1/2 | 165 | 3 1/4 | 83 | 7/16 | 11 | 2 5/8 | 67 |
| RAA-07-F | 3/4 | 1 3/16 | 30 | 1/2 | 9/16 | 14 | 6 1/2 | 165 | 3 1/4 | 83 | 7/16 | 11 | 2 5/8 | 67 |
| RAA-10-D | 1 | 1 5/16 | 33 | 1/2 | 9/16 | 14 | 6 3/4 | 171 | 3 1/2 | 89 | 7/16 | 11 | 3 | 76 |
| RAA-10-F | 1 | 1 5/16 | 33 | 1/2 | 9/16 | 14 | 6 3/4 | 171 | 3 1/2 | 89 | 7/16 | 11 | 3 | 76 |
| RAA-12-D | 1 1/4 | 1 9/16 | 40 | 5/8 | 9/16 | 14 | 7 | 178 | 3 3/4 | 95 | 1/2 | 13 | 3 9/16 | 90 |
| RAA-12-F | 1 1/4 | 1 9/16 | 40 | 5/8 | 9/16 | 14 | 7 | 178 | 3 3/4 | 95 | 1/2 | 13 | 3 9/16 | 90 |
| RAA-12-E | 1 1/4 | 1 9/16 | 40 | 5/8 | 9/16 | 14 | 8 | 203 | 3 3/4 | 95 | 7/16 | 11 | 3 9/16 | 90 |
| RAA-15-D | 1 1/2 | 1 7/16 | 37 | 5/8 | 9/16 | 14 | 7 1/4 | 184 | 4 | 102 | 1/2 | 13 | 3 7/8 | 98 |
| RAA-15-F | 1 1/2 | 1 7/16 | 37 | 1/2 | 9/16 | 14 | 7 1/4 | 184 | 4 | 102 | 1/2 | 13 | 3 7/8 | 98 |
| RAA-15-E | 1 1/2 | 1 7/16 | 37 | 5/8 | 9/16 | 14 | 8 1/4 | 210 | 4 | 102 | 7/16 | 11 | 3 7/8 | 98 |
| RAA-20-D | 2 | 1 11/16 | 43 | 5/8 | 9/16 | 14 | 7 5/8 | 194 | 4 3/8 | 111 | 9/16 | 14 | 4 7/16 | 113 |
| RAA-20-F | 2 | 1 11/16 | 43 | 5/8 | 9/16 | 14 | 7 5/8 | 194 | 4 3/8 | 111 | 9/16 | 14 | 4 7/16 | 113 |
| RAA-20-E | 2 | 1 11/16 | 43 | 5/8 | 9/16 | 14 | 8 5/8 | 219 | 4 3/8 | 111 | 7/16 | 11 | 4 7/16 | 113 |
| RAA-25-D | 2 1/2 | 2 3/16 | 56 | 3/4 | 9/16 | 14 | 8 | 203 | 4 3/4 | 121 | 5/8 | 16 | 5 1/8 | 130 |
| RAA-25-F | 2 1/2 | 2 3/16 | 56 | 3/4 | 9/16 | 14 | 8 | 203 | 4 3/4 | 121 | 5/8 | 16 | 5 1/8 | 130 |
| RAA-25-E | 2 1/2 | 2 3/16 | 56 | 3/4 | 9/16 | 14 | 9 | 229 | 4 3/4 | 121 | 1/2 | 13 | 5 1/8 | 130 |
| RAA-30-D | 3 | 2 11/16 | 68 | 3/4 | 9/16 | 14 | 8 3/8 | 213 | 5 1/8 | 130 | 3/4 | 19 | 5 3/4 | 146 |
| RAA-30-F | 3 | 2 11/16 | 68 | 3/4 | 9/16 | 14 | 8 3/8 | 213 | 5 1/8 | 130 | 3/4 | 19 | 5 3/4 | 146 |
| RAA-30-E | 3 | 2 11/16 | 68 | 3/4 | 9/16 | 14 | 9 3/8 | 238 | 5 1/8 | 130 | 3/4 | 19 | 5 3/4 | 146 |
| RAA-35-D | 3 1/2 | 3 3/16 | 81 | 7/8 | 9/16 | 14 | 8 3/4 | 222 | 5 1/2 | 140 | 1 1/16 | 27 | 6 13/16 | 173 |
| RAA-35-F | 3 1/2 | 3 3/16 | 81 | 7/8 | 9/16 | 14 | 8 3/4 | 222 | 5 1/2 | 140 | 1 1/16 | 27 | 6 13/16 | 173 |
| RAA-35-E | 3 1/2 | 3 3/16 | 81 | 7/8 | 9/16 | 14 | 9 3/4 | 248 | 5 1/2 | 140 | 1 1/16 | 27 | 6 13/16 | 173 |
| RAA-40-D | 4 | 3 7/16 | 87 | 7/8 | 9/16 | 14 | 9 1/8 | 232 | 5 7/8 | 149 | 1 3/16 | 30 | 7 13/16 | 198 |
| RAA-40-F | 4 | 3 7/16 | 87 | 7/8 | 9/16 | 14 | 9 1/8 | 232 | 5 7/8 | 149 | 1 3/16 | 30 | 7 13/16 | 198 |
| RAA-40-E | 4 | 3 7/16 | 87 | 7/8 | 9/16 | 14 | 10 1/8 | 257 | 5 7/8 | 149 | 1 3/16 | 30 | 7 13/16 | 198 |
| RAA-50-E | 5 | 3 3/4 | 95 | 7/8 | 9/16 | 14 | 10 3/4 | 273 | 6 1/2 | 165 | 1 5/16 | 33 | 8 15/16 | 227 |
| RAA-60-E | 6 | 4 1/4 | 108 | 7/8 | 9/16 | 14 | 11 3/4 | 298 | 7 1/2 | 191 | 1 3/4 | 44 | 10 1/16 | 256 |

ALUMINUM WIDE RANGE TERMINALS • TYPES RAA AND RAAC

Heavy Duty Cable to Flat



High strength electrical aluminum alloy.

Massive extra thick sections. Conforming contact grooves. Generous extra long contact lengths.

Large size, high strength, anodized and lubricated 2024T4 aluminum alloy clamping hardware.

Bolt heads pocketed for single wrench installation. Rounded contours.

NEMA drilling supplied. Other drilling, or undrilled, available on request.

There may be some special operating conditions where copper flashed pad may be desired on the tongue. Add suffix "C" to the catalog designation. For example: RAAC-013-D. If tin plated terminals are preferred, add "-TN" to catalog numbers. Example: RAA-013-D-TN.

For tongue mounting hardware, suffix catalog number with "-TMH." Example: RAA-013-D-TMH. (Aluminum hardware provided for type RAA, steel hardware for type RAAC.)

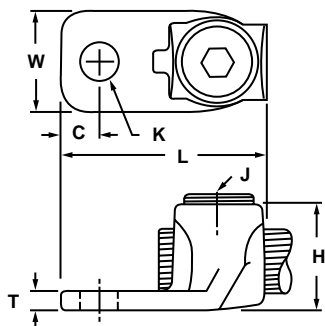
| Catalog Number | Conductor Range | | Wire Diameter Range† | Approximate Dimensions | | | | | | | | | | | | |
|----------------|------------------|-------------|----------------------|------------------------|-------------|-------------|------|----|-------|-----|-------|-----|-------|----|--------|-----|
| | Aluminum | ACSR | | G Max. | J Bolt Dia. | K Hole Dia. | L | | M | | T | | W | | | |
| | | | | | | | in | mm | in | mm | in | mm | in | mm | in | mm |
| RAA-013-S | 6 Str.-2/0 Str. | 6-2/0 | .184-.447 | 3/4 | 19 | 1 1/2* | 9/16 | 14 | 3 7/8 | 98 | 2 | 51 | 3/8 | 10 | 2 1/16 | 52 |
| RAA-013-D | 6 Str.-2/0 Str. | 6-2/0 | .184-.447 | 3/4 | 19 | 1 1/2* | 9/16 | 14 | 5 1/4 | 133 | 2 | 51 | 3/8 | 10 | 2 1/16 | 52 |
| RAA-025-S | 6 Str.-250 MCM | 6-4/0 | .184-.575 | 7/8 | 22 | 1/2 | 9/16 | 14 | 4 5/8 | 117 | 2 3/4 | 70 | 3/8 | 10 | 2 1/8 | 54 |
| RAA-025-D | 6 Str.-250 MCM | 6-4/0 | .184-.575 | 7/8 | 22 | 1/2 | 9/16 | 14 | 6 | 152 | 2 3/4 | 70 | 3/8 | 10 | 2 1/8 | 54 |
| RAA-025-F | 6 Str.-250 MCM | 6-4/0 | .184-.575 | 7/8 | 22 | 1/2 | 9/16 | 14 | 6 | 152 | 2 3/4 | 70 | 3/8 | 10 | 2 1/8 | 54 |
| RAA-040-D | 3/0 Str.-400 MCM | 3/0-336.4 | .470-.728 | 1 5/16 | 24 | 1/2 | 9/16 | 14 | 6 1/4 | 159 | 3 | 76 | 3/8 | 10 | 2 1/4 | 57 |
| RAA-040-F | 3/0 Str.-400 MCM | 3/0-336.4 | .470-.728 | 1 5/16 | 24 | 1/2 | 9/16 | 14 | 6 1/4 | 159 | 3 | 76 | 3/8 | 10 | 2 1/4 | 57 |
| RAA-065-D | 250-650 MCM | 266.8-556.5 | .575-.953 | 1 | 25 | 1/2 | 9/16 | 14 | 6 3/4 | 171 | 3 1/2 | 89 | 7/16 | 11 | 2 5/8 | 67 |
| RAA-065-F | 250-650 MCM | 266.8-556.5 | .575-.953 | 1 | 25 | 1/2 | 9/16 | 14 | 6 3/4 | 171 | 3 1/2 | 89 | 7/16 | 11 | 2 5/8 | 67 |
| RAA-065-E | 250-650 MCM | 266.8-556.5 | .575-.953 | 1 | 25 | 1/2 | 9/16 | 14 | 7 3/4 | 197 | 3 1/2 | 89 | 3/8 | 10 | 2 5/8 | 67 |
| RAA-090-D | 500-900 MCM | 477-795 | .814-1.140 | 1 1/16 | 27 | 1/2 | 9/16 | 14 | 7 | 178 | 3 3/4 | 95 | 7/16 | 11 | 2 3/4 | 70 |
| RAA-090-F | 500-900 MCM | 477-795 | .814-1.140 | 1 1/16 | 27 | 1/2 | 9/16 | 14 | 7 | 178 | 3 3/4 | 95 | 7/16 | 11 | 2 3/4 | 70 |
| RAA-090-E | 500-900 MCM | 477-795 | .814-1.140 | 1 1/16 | 27 | 1/2 | 9/16 | 14 | 8 | 203 | 3 3/4 | 95 | 3/8 | 10 | 2 3/4 | 70 |
| RAA-125-D | 600-1250 MCM | 556.5-1113 | .879-1.293 | 1 3/16 | 30 | 5/8 | 9/16 | 14 | 7 1/2 | 191 | 4 1/4 | 108 | 7/16 | 11 | 3 3/8 | 86 |
| RAA-125-F | 600-1250 MCM | 556.5-1113 | .879-1.293 | 1 3/16 | 30 | 5/8 | 9/16 | 14 | 7 1/2 | 191 | 4 1/4 | 108 | 7/16 | 11 | 3 3/8 | 86 |
| RAA-125-E | 600-1250 MCM | 556.5-1113 | .879-1.293 | 1 3/16 | 30 | 5/8 | 9/16 | 14 | 8 1/2 | 216 | 4 1/4 | 108 | 7/16 | 11 | 3 3/8 | 86 |
| RAA-160-D | 900-1600 MCM | 795-1431 | 1.040-1.459 | 1 1/4 | 32 | 5/8 | 9/16 | 14 | 7 3/4 | 197 | 4 1/2 | 114 | 7/16 | 11 | 3 1/2 | 89 |
| RAA-160-F | 900-1600 MCM | 795-1431 | 1.040-1.459 | 1 1/4 | 32 | 5/8 | 9/16 | 14 | 7 3/4 | 197 | 4 1/2 | 114 | 7/16 | 11 | 3 1/2 | 89 |
| RAA-160-E | 900-1600 MCM | 795-1431 | 1.040-1.459 | 1 1/4 | 32 | 5/8 | 9/16 | 14 | 8 3/4 | 222 | 4 1/2 | 114 | 7/16 | 11 | 3 1/2 | 89 |
| RAA-200-D | 1250-2000 MCM | 1113-1780 | 1.290-1.632 | 1 7/16 | 37 | 3/4 | 9/16 | 14 | 8 1/4 | 210 | 5 | 127 | 1/2 | 13 | 4 | 102 |
| RAA-200-F | 1250-2000 MCM | 1113-1780 | 1.290-1.632 | 1 7/16 | 37 | 3/4 | 9/16 | 14 | 8 1/4 | 210 | 5 | 127 | 1/2 | 13 | 4 | 102 |
| RAA-200-E | 1250-2000 MCM | 1113-1780 | 1.290-1.632 | 1 7/16 | 37 | 3/4 | 9/16 | 14 | 9 1/4 | 235 | 5 | 127 | 1/2 | 13 | 4 | 102 |
| RAA-300-D | 2000-3000 MCM | 1780-2870 | 1.602-1.998 | 2 1/8 | 54 | 3/4 | 9/16 | 14 | 8 1/2 | 216 | 5 1/4 | 133 | 1 3/8 | 35 | 4 1/2 | 114 |
| RAA-300-F | 2000-3000 MCM | 1780-2870 | 1.602-1.998 | 2 1/8 | 54 | 3/4 | 9/16 | 14 | 8 1/2 | 216 | 5 1/4 | 133 | 1 | 25 | 4 1/2 | 114 |
| RAA-300-E | 2000-3000 MCM | 1780-2870 | 1.602-1.998 | 2 1/8 | 54 | 3/4 | 9/16 | 14 | 9 1/2 | 241 | 5 1/4 | 133 | 3/4 | 19 | 4 1/2 | 114 |

*Denotes 2 bolt clamping element.

†For conversion to metric range, see page 175.

BRONZE PENN-LUG • TYPE PNL

1-Hole tongue



THE ECONOMY LUG WITH QUALITY IMPROVEMENTS

Screw tightens directly on the conductor forcing the conductor into intimate contact with the body for maximum conductivity.

Flat bottom allows mounting either on tongue only or with full contact surface.

Inspection hole for proper cable insertion.

Locking boss available at an additional cost, contact factory.

Lug can be furnished electro-tinned or silver plated, as desired: For tin add "-TN" to catalog number. For silver add "-SV" to catalog number.

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | | Wrench Size | |
|----------------|------------------|----------------------|-------------------------------|----|-------------------------------|----|---------------------------------|----|---------------------------------|----|------------------------------|------|-------------------------------|----|-----------------------------------|-------------------------------|
| | | | C | | K | | H | | L | | T | | W | | | J |
| | | in | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | |
| PNL-8 | 14 Solid-8 Str. | .064- .146 | ³ / ₁₆ | 5 | ¹³ / ₆₄ | 5 | ⁷ / ₁₆ | 11 | ⁷ / ₈ | 22 | ³ / ₃₂ | 2.38 | ³ / ₈ | 10 | #12-24 | Screw Driver Slot |
| PNL-4 | 14 Solid-4 Str. | .064- .232 | ¹⁷ / ₆₄ | 7 | ¹⁷ / ₆₄ | 7 | ⁹ / ₁₆ | 14 | 1 ¹ / ₄ | 32 | ⁹ / ₆₄ | 3.57 | ¹⁷ / ₃₂ | 13 | ⁵ / ₁₆ -24 | Screw Driver Slot |
| PNL-1/0 | 8 Solid-1/0 Str. | .128- .375 | ³ / ₈ | 10 | ²¹ / ₆₄ | 8 | ²⁵ / ₃₂ | 20 | 1 ¹⁹ / ₃₂ | 40 | ⁹ / ₆₄ | 3.57 | ⁴⁷ / ₆₄ | 16 | 1 ¹ / ₂ -20 | 1 ¹ / ₄ |
| PNL-250 | 6 Solid-250 MCM | .162- .575 | ⁷ / ₁₆ | 11 | ²⁵ / ₆₄ | 10 | 1 ³ / ₆₄ | 27 | 1 ³¹ / ₃₂ | 50 | ¹ / ₈ | 3.17 | ¹⁵ / ₁₆ | 24 | ⁵ / ₈ -18 | ⁵ / ₁₆ |
| PNL-500 | 4 Solid-500 MCM | .204- .815 | ³ / ₄ | 19 | ¹⁷ / ₃₂ | 13 | 1 ¹⁵ / ₃₂ | 43 | 3 | 76 | ¹ / ₄ | 6.35 | 1 ³ / ₈ | 35 | ¹⁵ / ₁₆ -16 | ³ / ₈ |
| PNL-1000 | 500 MCM-1000MCM | .815-1.153 | ¹¹ / ₁₆ | 17 | ⁹ / ₁₆ | 14 | 2 | 51 | 3 ⁷ / ₈ | 99 | ³ / ₈ | 9.52 | 1 ³ / ₄ | 44 | 1 ³ / ₈ -14 | 1 ¹ / ₂ |

‡For conversion to metric range, see page 175.

BRONZE PENN-LUG • TYPE PNL

2 or 4 Hole Tongue

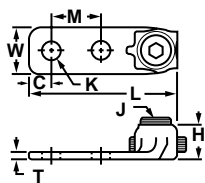


FIG. 1

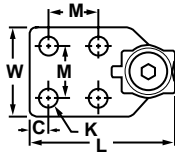


FIG. 2

Body is cast from high strength corrosion resistant copper alloy. Steel screw, cadmium plated. Lug can be furnished electro-tinned or silver plated as desired. For tin add "-TN" to catalog number. For silver add "-SV" to catalog number.

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | | | | Fig. No. | Wrench Size | |
|----------------|------------------|----------------------|------------------------------|------|-------------------------------|------|---------------------------------|----|--------------------------------|-----|------------------------------|-----|---------------------------------|----|-----------------------------------|-------------------------------|----------|-------------|-------------------------------|
| | | | C | | K | | H | | L | | T | | W | | J | M | | | |
| | | in | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | in | mm | | |
| PNL-1/0-2 | 8 Sol.-1/0 Str. | .128- .375 | ⁷ / ₁₆ | 11.1 | ¹¹ / ₃₂ | 8.7 | ²⁷ / ₃₂ | 21 | 2 ³ / ₄ | 70 | ³ / ₁₆ | 4.7 | ³ / ₄ | 19 | 1 ¹ / ₂ -20 | 1 | 25 | 1 | 1 ¹ / ₄ |
| PNL-1/0-2N | 8 Sol.-1/0 Str. | .128- .375 | ⁵ / ₈ | 15.8 | ⁹ / ₁₆ | 14.2 | ²⁷ / ₃₂ | 21 | 3 ⁹ / ₁₆ | 90 | ³ / ₁₆ | 4.7 | 1 | 25 | 1 ¹ / ₂ -20 | 1 ³ / ₄ | 44 | 1 | 1 ¹ / ₄ |
| PNL-250-2 | 6 Sol.-250 MCM | .162- .575 | ⁷ / ₁₆ | 11.1 | ⁷ / ₁₆ | 11.1 | 1 ¹ / ₃₂ | 26 | 2 ⁷ / ₈ | 73 | ⁷ / ₃₂ | 5.5 | ¹⁵ / ₁₆ | 24 | ⁵ / ₈ -18 | 1 | 25 | 1 | 1 ¹ / ₄ |
| PNL-250-2N• | 6 Sol.-250 MCM | .162- .575 | ⁵ / ₈ | 15.8 | ⁹ / ₁₆ | 14.2 | 1 ¹ / ₈ | 29 | 4 ¹ / ₄ | 108 | ⁷ / ₃₂ | 5.5 | 1 | 25 | ³ / ₄ -16 | 1 ³ / ₄ | 44 | 1 | ³ / ₈ |
| PNL-500-2 | 4 Sol.-500 MCM | .204- .815 | ⁷ / ₁₆ | 11.1 | ⁷ / ₁₆ | 11.1 | 1 ¹⁵ / ₃₂ | 36 | 3 ³ / ₈ | 86 | ⁵ / ₁₆ | 7.9 | 1 ³ / ₈ | 35 | ¹⁵ / ₁₆ -16 | 1 | 25 | 1 | ³ / ₈ |
| PNL-500-2N• | 4 Sol.-500 MCM | .204- .815 | ⁵ / ₈ | 15.8 | ⁹ / ₁₆ | 14.2 | 1 ¹⁵ / ₃₂ | 37 | 4 ³ / ₈ | 111 | ⁵ / ₁₆ | 7.9 | 1 ³ / ₈ | 35 | ¹⁵ / ₁₆ -16 | 1 ³ / ₄ | 44 | 1 | ³ / ₈ |
| PNL-500-4N | 4 Sol.-500 MCM | .204- .815 | ⁵ / ₈ | 15.8 | ⁹ / ₁₆ | 14.2 | 1 ¹⁵ / ₃₂ | 37 | 4 ³ / ₈ | 111 | ¹ / ₄ | 6.3 | 3 | 76 | ¹⁵ / ₁₆ -16 | 1 ³ / ₄ | 44 | 2 | ³ / ₈ |
| PNL-1000-2 | 500 MCM-1000 MCM | .815-1.153 | ⁹ / ₁₆ | 14.2 | ⁹ / ₁₆ | 14.2 | 2 | 51 | 4 ⁷ / ₈ | 124 | ³ / ₈ | 9.5 | 1 ³ / ₄ | 44 | 1 ³ / ₈ -14 | 1 ¹ / ₂ | 38 | 1 | ³ / ₈ |
| PNL-1000-2N• | 500 MCM-1000 MCM | .815-1.153 | ⁵ / ₈ | 15.8 | ⁹ / ₁₆ | 14.2 | 2 | 51 | 4 ⁷ / ₈ | 124 | ³ / ₈ | 9.5 | 1 ¹⁵ / ₁₆ | 49 | 1 ³ / ₈ -14 | 1 ³ / ₄ | 44 | 1 | ³ / ₈ |
| PNL-1000-4N | 500 MCM-1000 MCM | .815-1.153 | ⁵ / ₈ | 15.8 | ⁹ / ₁₆ | 14.2 | 2 | 51 | 4 ⁷ / ₈ | 124 | ¹ / ₄ | 6.3 | 3 | 76 | 1 ³ / ₈ -14 | 1 ³ / ₄ | 44 | 2 | ³ / ₈ |

‡For conversion to metric range, see page 175.

•CSA Listed

BRONZE TERMINAL LUGS • TYPE P2NL

2 or 4 hole tongue for two wires

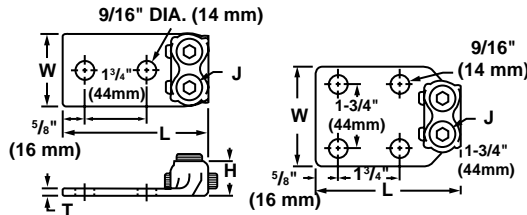


FIG. 1

FIG. 2

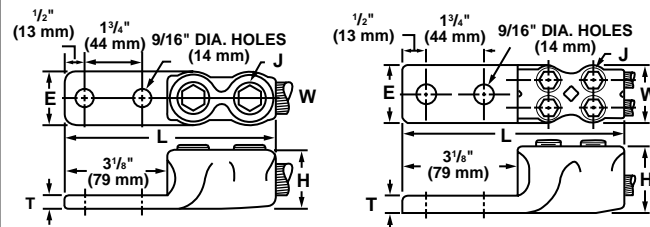
Body is cast from high strength corrosion resistant copper alloy. Steel screw, cadmium plated. Lug can be furnished electro-tinned or silver plated as desired. For tin add "TN" to catalog number. For silver add "-SV" to catalog number.

Annular serrations for better resistance to horizontal pull—cable is snubbed behind the ridges.

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | Fig. No. | Wrench Size | |
|----------------|------------------|----------------------|------------------------|----|-------|-----|------|----|-------|----|----------|-------------|-----|
| | | | H | | L | | T | | W | | | | J |
| | | in | in | mm | in | mm | in | mm | in | mm | in | | |
| P2NL-1/0-2N | 8 Sol.-1/0 Str. | .128- .375 | 27/32 | 21 | 37/8 | 98 | 5/16 | 8 | 1 1/2 | 38 | 1/2-20 | 1 | 1/4 |
| P2NL-1/0-4N | 8 Sol.-1/0 Str. | .128- .375 | 27/32 | 21 | 37/8 | 98 | 1/4 | 6 | 3 | 76 | 1/2-20 | 2 | 1/4 |
| P2NL-250-2N | 6 Sol.-250 MCM | .162- .575 | 1 1/8 | 29 | 4 | 102 | 5/16 | 8 | 1 3/4 | 44 | 3/4-16 | 1 | 3/8 |
| P2NL-250-4N | 6 Sol.-250 MCM | .162- .575 | 1 1/8 | 29 | 4 | 102 | 1/4 | 6 | 3 | 76 | 3/4-16 | 2 | 3/8 |
| P2NL-500-2N | 4 Sol.-500 MCM | .204- .815 | 1 15/32 | 37 | 4 1/2 | 114 | 3/8 | 10 | 2 1/2 | 64 | 15/16-16 | 1 | 3/8 |
| P2NL-500-4N | 4 Sol.-500 MCM | .204- .815 | 1 15/32 | 37 | 4 1/2 | 114 | 5/16 | 8 | 3 | 76 | 15/16-16 | 2 | 3/8 |
| P2NL-1000-2N | 500 MCM-1000 MCM | .815-1.153 | 2 | 51 | 4 7/8 | 124 | 1/2 | 13 | 3 | 76 | 1 3/8-14 | 1 | 3/8 |
| P2NL-1000-4N | 500 MCM-1000 MCM | .815-1.153 | 2 | 51 | 4 7/8 | 124 | 1/2 | 13 | 3 | 76 | 1 3/8-14 | 2 | 3/8 |

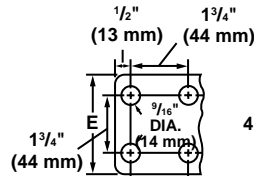
‡For conversion to metric range, see page 175.

BRONZE TERMINAL LUGS • TYPE PPNL & PP2NL



PPNL

PP2NL



STANDARD 4 HOLE NEMA DRILLING

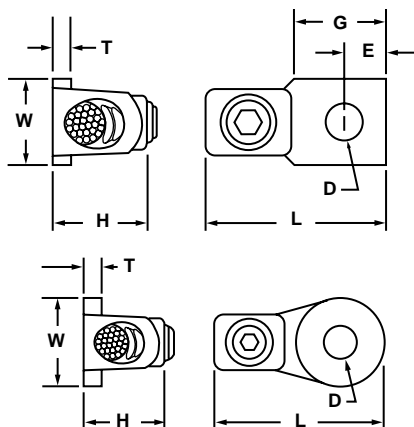
Body is cast from high strength corrosion resistant copper alloy. Steel screw, cadmium plated. Lug can be furnished electro-tinned or silver plated as desired. For tin add "TN" to catalog number. For silver add "-SV" to catalog number.

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | |
|----------------|------------------|----------------------|------------------------|----|---------|----|----------|--------|-----|-------|-------|--------|----|
| | | | E | | H | | J | L | | T | | W | |
| | | in | in | mm | in | mm | in | in | mm | in | mm | in | mm |
| PPNL-4/0-2* | 4 Str.-4/0 Str. | .232- .528 | 1 1/8 | 29 | 1 1/32 | 26 | 5/8-18 | 4 7/8 | 124 | 1/4 | 6.35 | 7/8 | 22 |
| PPNL-4/0-4* | 4 Str.-4/0 Str. | .232- .528 | 3 | 76 | 1 1/32 | 26 | 5/8-18 | 4 7/8 | 124 | 1/4 | 6.35 | 7/8 | 22 |
| PP2NL-4/0-2 | 4 Str.-4/0 Str. | .232- .528 | 1 3/4 | 44 | 1 1/32 | 26 | 5/8-18 | 4 5/32 | 106 | 5/16 | 7.93 | 1 3/4 | 44 |
| PP2NL-4/0-4 | 4 Str.-4/0 Str. | .232- .528 | 3 | 76 | 1 1/32 | 26 | 5/8-18 | 4 5/32 | 106 | 5/16 | 7.93 | 1 3/4 | 44 |
| PPNL-350-2 | 3/0 Str.-350 MCM | .470- .682 | 1 1/8 | 29 | 1 1/4 | 32 | 3/4-16 | 5 3/16 | 132 | 5/16 | 7.93 | 1 1/32 | 26 |
| PPNL-350-4 | 3/0 Str.-350 MCM | .470- .682 | 3 | 76 | 1 1/4 | 32 | 3/4-16 | 5 3/16 | 132 | 5/16 | 7.93 | 1 1/32 | 26 |
| PP2NL-350-2 | 3/0 Str.-350 MCM | .470- .682 | 2 1/16 | 52 | 1 1/4 | 32 | 3/4-16 | 4 5/16 | 110 | 3/8 | 9.52 | 2 3/32 | 53 |
| PP2NL-350-4 | 3/0 Str.-350 MCM | .470- .682 | 3 | 76 | 1 1/4 | 32 | 3/4-16 | 4 5/16 | 110 | 3/8 | 9.52 | 2 3/32 | 53 |
| PPNL-800-2 | 400-800 MCM | .728-1.031 | 1 5/8 | 41 | 1 13/16 | 46 | 1 1/4-14 | 6 7/16 | 164 | 13/32 | 10.31 | 1 5/8 | 41 |
| PPNL-800-4 | 400-800 MCM | .728-1.031 | 3 | 76 | 1 13/16 | 46 | 1 1/4-14 | 6 7/16 | 164 | 13/32 | 10.31 | 1 5/8 | 41 |
| PP2NL-800-2 | 400-800 MCM | .728-1.031 | 1 5/8 | 41 | 1 13/16 | 46 | 1 1/4-14 | 4 5/16 | 125 | 1/2 | 12.70 | 3 5/16 | 84 |
| PP2NL-800-4 | 400-800 MCM | .728-1.031 | 3 | 76 | 1 13/16 | 46 | 1 1/4-14 | 4 5/16 | 125 | 1/2 | 12.70 | 3 5/16 | 84 |
| PPNL-1000-2 | 750-1000 MCM | .999-1.529 | 1 3/4 | 44 | 2 | 51 | 1 3/8-14 | 6 3/4 | 171 | 1/2 | 12.70 | 1 3/4 | 44 |
| PPNL-1000-4 | 750-1000 MCM | .999-1.529 | 3 | 76 | 2 | 51 | 1 3/8-14 | 6 3/4 | 171 | 1/2 | 12.70 | 1 3/4 | 44 |
| PP2NL-1000-2 | 750-1000 MCM | .999-1.529 | 1 3/4 | 44 | 2 | 51 | 1 3/8-14 | 5 1/8 | 130 | 9/16 | 14.28 | 3 5/8 | 92 |
| PP2NL-1000-4 | 750-1000 MCM | .999-1.529 | 3 | 76 | 2 | 51 | 1 3/8-14 | 5 1/8 | 130 | 9/16 | 14.28 | 3 5/8 | 92 |

*-2, -4, denotes 2 or 4 hole tongues.

‡For conversion to metric range, see page 175.

BRONZE VI-TITE TERMINAL LUGS • TYPE VL



Body is cast from high strength corrosion resistant copper alloy. Bronze screw and pressure bar provides uniform clamping pressure without direct screw contact on conductor. Unique designed protuberances assure better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "-HH". For tin plated—suffix catalog number "-TN".

SQUARE FLANGE—ONE HOLE

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | | | | Amp. Rat. |
|----------------|-------------------|----------------------|------------------------|-------|--------|------|--------|-------|--------|-------|--------|----|---------|----|---------|-----|-----------|
| | | | T | | W | | D | | E | | G | | H | | L | | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | |
| *VL-21680/82 | 14 Sol.—4 Str. | .064- .232 | 9/64 | 3.57 | 17/32 | 13.5 | 17/64 | 6.75 | 17/64 | 6.75 | 21/32 | 17 | 9/16 | 14 | 1 1/4 | 32 | 85 |
| VL-21683 | 4 Sol.—1 Str. | .204- .332 | 7/32 | 5.55 | 5/8 | 16 | 9/32 | 7.14 | 3/8 | 9.52 | 7/8 | 22 | 7/8 | 22 | 1 11/16 | 43 | 100 |
| VL-21685 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 13/16 | 21 | 13/32 | 10.31 | 7/16 | 11.11 | 1 | 25 | 1 1/32 | 26 | 1 7/8 | 48 | 150 |
| VL-21687 | 1/0 Str.—4/0 Str. | .375- .528 | 1/4 | 6.35 | 1 | 25 | 13/32 | 10.31 | 1/2 | 12.7 | 1 1/4 | 32 | 1 9/32 | 33 | 2 3/8 | 60 | 200 |
| VL-21689 | 3/0 Str.—300 MCM | .470- .634 | 5/16 | 7.93 | 1 3/16 | 30 | 17/32 | 13.49 | 3/4 | 19.05 | 1 1/2 | 38 | 1 3/8 | 35 | 2 11/16 | 68 | 300 |
| VL-21691 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 1 1/2 | 38 | 1 1/16 | 17.46 | 3/4 | 19.05 | 1 5/8 | 41 | 1 13/16 | 46 | 3 | 76 | 500 |
| VL-21692 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 1 3/8 | 35 | 17/32 | 13.49 | 7/8 | 22.22 | 1 7/8 | 48 | 1 13/16 | 46 | 3 1/8 | 79 | 500 |
| VL-21694 | 500—800 MCM | .815-1.031 | 13/32 | 10.31 | 1 3/4 | 44 | 17/32 | 13.49 | 1 | 25.4 | 2 3/16 | 56 | 1 7/8 | 48 | 3 11/16 | 94 | 600 |
| VL-21697 | 700—1000 MCM | .965-1.153 | 7/16 | 11.11 | 2 | 51 | 1 1/16 | 17.46 | 1 | 25.4 | 2 3/16 | 56 | 2 1/16 | 52 | 4 | 102 | 800 |
| VL-21698 | 700—1000 MCM | .965-1.153 | 7/16 | 11.11 | 2 | 51 | 1 1/16 | 17.46 | 1 3/16 | 30.16 | 2 1/2 | 64 | 2 1/16 | 52 | 4 | 102 | 800 |
| VL-21986 | 1000—1500 MCM | 1.153-1.412 | 1/2 | 12.70 | 2 1/8 | 54 | 13/16 | 20.63 | 1 1/16 | 25.46 | 2 1/8 | 54 | 2 5/16 | 59 | 4 3/4 | 121 | 1050 |
| VL-21987 | 1500-2000 MCM | 1.412-1.632 | 9/16 | 14.28 | 2 1/2 | 64 | 13/16 | 20.63 | 1 3/16 | 30.16 | 2 3/8 | 60 | 2 11/16 | 68 | 5 1/8 | 130 | 1250 |

*No saddle, only available with slotted screw. ‡For conversion to metric range, see page 175.

ROUND FLANGE—ONE HOLE

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | Amp. Rat. |
|----------------|-------------------|----------------------|------------------------|-------|-------|----|--------|-------|---------|----|---------|-----|-----------|
| | | | T | | W | | D | | H | | L | | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | |
| VL-22003 | 8 Sol.—6 Str. | .128- .184 | 5/32 | 3.96 | 1 | 25 | 13/32 | 10.31 | 5/8 | 16 | 1 1/2 | 30 | 60 |
| VL-22004 | 8 Sol.—6 Str. | .128- .184 | 5/32 | 3.96 | 1 1/8 | 28 | 17/32 | 13.49 | 5/8 | 16 | 1 5/8 | 41 | 60 |
| VL-22008 | 4 Sol.—1 Str. | .204- .332 | 3/16 | 4.76 | 3/4 | 19 | 1 1/32 | 8.73 | 7/8 | 22 | 1 9/16 | 40 | 100 |
| VL-22009 | 4 Sol.—1 Str. | .204- .332 | 3/16 | 4.76 | 1 | 25 | 13/32 | 10.31 | 7/8 | 22 | 1 13/16 | 46 | 100 |
| VL-22010 | 4 Sol.—1 Str. | .204- .332 | 3/16 | 4.76 | 1 | 25 | 17/32 | 13.49 | 7/8 | 22 | 1 13/16 | 46 | 100 |
| VL-22014 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 1 | 25 | 13/32 | 10.31 | 1 | 25 | 1 7/8 | 48 | 150 |
| VL-22015 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 1 | 25 | 17/32 | 13.49 | 1 | 25 | 1 7/8 | 48 | 150 |
| VL-22017 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 1 1/2 | 38 | 25/32 | 19.84 | 1 | 25 | 2 5/8 | 60 | 150 |
| VL-22018 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 2 | 51 | 29/32 | 23.01 | 1 | 25 | 2 7/8 | 73 | 150 |
| VL-22023 | 1/0 Str.—4/0 Str. | .375- .528 | 3/16 | 4.76 | 1 | 25 | 17/32 | 13.49 | 1 1/4 | 32 | 2 1/4 | 57 | 200 |
| VL-22025 | 1/0 Str.—4/0 Str. | .375- .528 | 5/16 | 7.93 | 1 1/2 | 38 | 25/32 | 19.84 | 1 1/8 | 32 | 2 5/8 | 67 | 200 |
| VL-22026 | 1/0 Str.—4/0 Str. | .375- .528 | 5/16 | 7.93 | 2 | 51 | 29/32 | 23.01 | 1 1/4 | 32 | 3 1/8 | 79 | 200 |
| VL-22029 | 3/0 Str.—300 MCM | .470- .634 | 1 1/32 | 8.73 | 1 1/2 | 38 | 17/32 | 13.49 | 1 3/8 | 35 | 2 3/4 | 70 | 300 |
| VL-22031 | 3/0 Str.—300 MCM | .470- .634 | 1 1/32 | 8.73 | 1 1/2 | 38 | 25/32 | 19.84 | 1 3/8 | 35 | 2 3/4 | 70 | 300 |
| VL-22032 | 3/0 Str.—300 MCM | .470- .634 | 1 1/32 | 8.73 | 2 | 51 | 29/32 | 23.01 | 1 3/8 | 35 | 3 1/4 | 82 | 300 |
| VL-22035 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 1 1/2 | 38 | 17/32 | 13.49 | 1 13/16 | 46 | 2 7/8 | 73 | 500 |
| VL-22038 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 2 | 51 | 29/32 | 23.01 | 1 13/16 | 46 | 3 3/8 | 88 | 500 |
| VL-22043 | 500-800 MCM | .815-1.031 | 7/16 | 11.11 | 1 1/2 | 38 | 17/32 | 13.49 | 1 13/16 | 46 | 3 | 76 | 600 |
| VL-22046 | 500—800 MCM | .815-1.031 | 7/16 | 11.11 | 2 | 51 | 29/32 | 23.01 | 1 13/16 | 46 | 3 1/2 | 89 | 600 |
| VL-22049 | 500—800 MCM | .815-1.031 | 7/16 | 11.11 | 2 1/2 | 64 | 1 3/16 | 33.33 | 1 13/16 | 46 | 4 | 102 | 600 |
| VL-22053 | 700—1000 MCM | .965-1.153 | 15/32 | 11.90 | 1 1/2 | 38 | 17/32 | 13.49 | 2 1/16 | 52 | 3 1/4 | 83 | 800 |

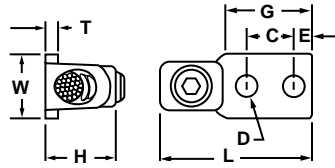
‡For conversion to metric range, see page 175.

"-TN" and "-HH" suffixed catalog numbers are not UL Listed.

BRONZE VI-TITE TERMINAL LUGS • TYPE VL



Rectangular flange—two holes

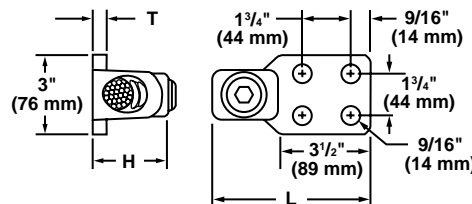


Body is cast from high strength corrosion resistant copper alloy. Bronze screw and pressure bar provides uniform clamping pressure without direct screw contact on conductor. Unique designed protuberances assure better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "-HH". For tin plated—suffix catalog number with "-TN".

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | | | | Amp. Rat. | | |
|----------------|-------------------|----------------------|------------------------|-------|-------|----|-------|----|-------|-------|-------|-------|--------|----|---------|----|-----------|-----|-----|
| | | | T | | W | | C | | D | | E | | G | | H | | | L | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | | in | mm |
| VL-21761 | 8 Sol.—6 Str. | .128- .184 | 1/8 | 3.17 | 1/2 | 13 | 5/8 | 16 | 9/32 | 7.14 | 1/4 | 6.35 | 17/16 | 37 | 5/8 | 16 | 2 | 51 | 60 |
| VL-21763 | 4 Sol.—1 Str. | .204- .332 | 7/32 | 5.55 | 5/8 | 16 | 3/4 | 19 | 9/32 | 7.14 | 9/32 | 7.14 | 17/16 | 37 | 7/8 | 22 | 2 1/4 | 57 | 100 |
| VL-21764 | 4 Sol.—1 Str. | .204- .332 | 7/32 | 5.55 | 3/4 | 19 | 1 | 25 | 7/16 | 11.11 | 7/16 | 11.11 | 2 1/8 | 54 | 7/8 | 22 | 3 | 76 | 100 |
| VL-21765 | 4 Sol.—1 Str. | .204- .332 | 7/32 | 5.55 | 3/4 | 19 | 3/4 | 19 | 5/16 | 7.93 | 13/32 | 10.31 | 1 5/8 | 41 | 7/8 | 22 | 2 1/2 | 64 | 100 |
| VL-21766 | 4 Sol.—1 Str. | .204- .332 | 7/32 | 5.55 | 1 | 25 | 1 | 25 | 7/16 | 11.11 | 17/32 | 13.49 | 2 1/8 | 54 | 7/8 | 22 | 3 | 76 | 100 |
| VL-21767 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 13/16 | 21 | 1 | 25 | 13/32 | 10.31 | 7/16 | 11.11 | 2 1/8 | 54 | 1 | 25 | 3 | 76 | 150 |
| VL-21768 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 1 | 25 | 1 3/4 | 44 | 9/16 | 14.28 | 9/16 | 14.28 | 3 | 76 | 1 | 25 | 3 7/8 | 98 | 150 |
| VL-21769 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 1 | 25 | 3/4 | 19 | 5/16 | 7.93 | 13/32 | 10.31 | 1 5/8 | 41 | 1 | 25 | 2 1/2 | 64 | 150 |
| VL-21770 | 2 Str.—2/0 Str. | .292- .419 | 1/4 | 6.35 | 1 | 25 | 1 | 25 | 7/16 | 11.11 | 17/32 | 13.49 | 2 1/8 | 54 | 1 | 25 | 3 | 76 | 150 |
| VL-21773/76 | 1/0 Str.—4/0 Str. | .375- .528 | 7/32 | 5.55 | 1 | 25 | 1 | 25 | 7/16 | 11.11 | 7/16 | 11.11 | 2 1/8 | 54 | 1 1/4 | 32 | 3 1/4 | 83 | 200 |
| VL-21774 | 1/0 Str.—4/0 Str. | .375- .528 | 9/32 | 7.14 | 1 | 25 | 1 3/4 | 44 | 9/16 | 14.28 | 9/16 | 14.28 | 3 | 76 | 1 1/4 | 32 | 4 1/8 | 105 | 200 |
| VL-21775 | 1/0 Str.—4/0 Str. | .375- .528 | 3/16 | 4.76 | 1 | 25 | 3/4 | 19 | 5/16 | 7.93 | 13/32 | 10.31 | 1 5/8 | 41 | 1 1/4 | 32 | 2 3/4 | 70 | 200 |
| VL-21779 | 3/0 Str.—300 MCM | .470- .634 | 5/16 | 7.93 | 13/16 | 30 | 1 | 25 | 13/32 | 10.31 | 7/16 | 11.11 | 2 1/8 | 54 | 1 3/8 | 35 | 3 3/8 | 86 | 300 |
| VL-21780 | 3/0 Str.—300 MCM | .470- .634 | 5/16 | 7.93 | 13/16 | 30 | 1 3/4 | 44 | 9/16 | 14.28 | 9/16 | 14.28 | 3 | 76 | 1 3/8 | 35 | 4 1/4 | 106 | 300 |
| VL-21781 | 3/0 Str.—300 MCM | .470- .634 | 5/16 | 7.93 | 1 1/2 | 38 | 3/4 | 19 | 7/16 | 11.11 | 13/32 | 10.31 | 1 5/8 | 41 | 1 3/8 | 35 | 2 7/8 | 73 | 300 |
| VL-21782 | 3/0 Str.—300 MCM | .470- .634 | 5/16 | 7.93 | 1 1/2 | 38 | 1 | 25 | 7/16 | 11.11 | 17/32 | 13.49 | 2 1/8 | 54 | 1 3/8 | 35 | 3 3/8 | 86 | 300 |
| VL-21784 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 1 3/8 | 35 | 1 | 25 | 13/32 | 10.31 | 7/16 | 11.11 | 2 1/8 | 54 | 1 13/16 | 46 | 3 1/2 | 89 | 500 |
| VL-21785 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 1 3/8 | 35 | 1 3/4 | 44 | 9/16 | 14.28 | 9/16 | 14.28 | 3 1/2 | 89 | 1 13/16 | 46 | 4 3/4 | 121 | 500 |
| VL-21786 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 1 1/2 | 38 | 3/4 | 19 | 7/16 | 11.11 | 13/32 | 10.31 | 1 5/8 | 41 | 1 13/16 | 46 | 3 | 76 | 500 |
| VL-21787 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 1 1/2 | 38 | 1 | 25 | 7/16 | 11.11 | 17/32 | 13.49 | 2 1/8 | 54 | 1 13/16 | 46 | 3 1/2 | 89 | 500 |
| VL-21789 | 500—800 MCM | .815-1.031 | 13/32 | 10.31 | 1 3/4 | 44 | 1/2 | 38 | 9/16 | 14.28 | 9/16 | 14.28 | 3 | 76 | 1 13/16 | 46 | 4 1/2 | 114 | 600 |
| VL-21790 | 500—800 MCM | .815-1.031 | 13/32 | 10.31 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 15.28 | 9/16 | 14.28 | 3 1/2 | 89 | 1 13/16 | 46 | 5 | 128 | 600 |
| VL-21791 | 500—800 MCM | .815-1.031 | 13/32 | 10.31 | 1 3/4 | 44 | 1 | 25 | 7/16 | 11.11 | 17/32 | 13.49 | 2 3/16 | 56 | 1 13/16 | 46 | 3 3/4 | 95 | 600 |
| VL-21794 | 700—1000 MCM | .965-1.153 | 7/16 | 11.11 | 2 | 51 | 1 1/2 | 38 | 9/16 | 14.28 | 9/16 | 14.28 | 3 | 76 | 2 1/16 | 53 | 4 3/4 | 121 | 800 |
| VL-21795 | 700—1000 MCM | .965-1.153 | 7/16 | 11.11 | 2 | 51 | 1 3/4 | 44 | 9/16 | 14.28 | 5/8 | 15.87 | 3 1/2 | 89 | 2 1/16 | 53 | 5 1/4 | 133 | 800 |
| VL-21796 | 700—1000 MCM | .965-1.153 | 7/16 | 11.11 | 2 | 51 | 1 | 25 | 7/16 | 11.11 | 17/32 | 13.49 | 2 3/16 | 56 | 2 1/16 | 53 | 4 | 102 | 800 |

‡For conversion to metric range, see page 175.

Square flange—four holes



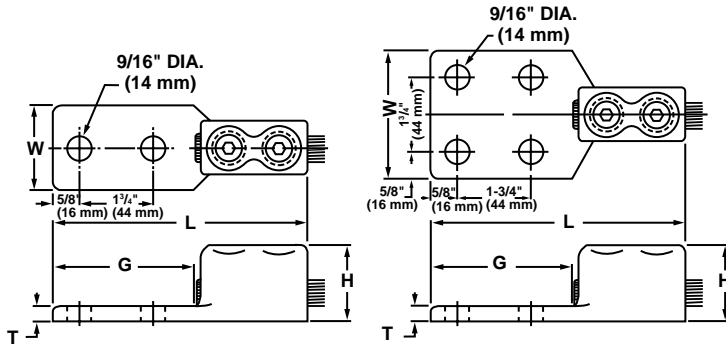
| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Amp. Rat. |
|----------------|------------------|----------------------|------------------------|-------|-------|----|-------|-----|-----------|
| | | | T | | H | | L | | |
| | | | in | mm | in | mm | in | mm | |
| VL-21917 | 3/0 Str.—300 MCM | .470- .634 | 5/16 | 7.93 | 1 1/4 | 32 | 4 1/4 | 108 | 300 |
| VL-21919 | 300—500 MCM | .634- .815 | 3/8 | 9.52 | 3/8 | 35 | 4 3/4 | 121 | 500 |
| VL-21921 | 500-800 MCM | .815-1.031 | 13/32 | 10.31 | 1 1/2 | 38 | 5 | 127 | 600 |
| VL-21925 | 700-1000 MCM | .965-1.153 | 7/16 | 11.11 | 1 3/4 | 44 | 5 1/4 | 133 | 800 |

‡For conversion to metric range, see page 175.
"TN" and "HH" suffixed catalog numbers are not UL Listed.

BRONZE VI-TITE TERMINAL LUGS • TYPES VVL & VL2



TANDEM HEAD
TYPE VVL



Body is cast from high strength corrosion resistant copper alloy. Bronze screw and pressure bar provides uniform clamping pressure without direct screw contact on conductor. Unique designed protuberances assure better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "-HH". For tin plated—suffix catalog number with "-TN".

| Catalog Number 2 Hole | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions 2-Hole Tongue | | | | | | | | Catalog Number 4 Hole | Approximate Dimensions 4-Hole Tongue | | | | | | | | | | | |
|--------------------------|-------------------|----------------------|-----------------------------------------|-----|--------------------------------|----|---------------------------------|----|-------------------------------|----|--------------------------------|-----------------------------------------|-----------|-------------------------------|-----|----|----|---------------------------------|----|-------------------------------|----|--------------------------------|----|
| | | | L | | W | | H | | G | | | T | | L | | W | | H | | G | | T | |
| | | | in | mm | in | mm | in | mm | in | mm | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VVL-21766 | 4 Sol.-1 Str. | .204-.332 | 4 ⁵ / ₈ | 117 | 1 ¹ / ₄ | 32 | 7 ⁷ / ₈ | 22 | 3 | 76 | 1 ¹ / ₄ | 6 | - | - | - | - | - | - | - | - | - | - | |
| VVL-21768 | 2 Str.-2/0 Str. | .292-.419 | 4 ³ / ₄ | 121 | 1 ¹ / ₄ | 32 | 1 ¹ / ₃₂ | 26 | 3 | 76 | 1 ¹ / ₄ | 6 | - | - | - | - | - | - | - | - | - | | |
| VVL-21774 | 1/0 Str.-4/0 Str. | .375-.528 | 5 ¹ / ₈ | 130 | 1 | 25 | 1 ⁹ / ₃₂ | 33 | 3 | 76 | 1 ¹ / ₄ | 6 | - | - | - | - | - | - | - | - | - | | |
| VVL-21780/82 | 3/0 Str.-350 MCM | .470-.682 | 5 ³ / ₈ | 137 | 1 ³ / ₁₆ | 30 | 1 ³ / ₈ | 35 | 3 | 76 | 5 ⁵ / ₁₆ | 8 | VVL-21918 | 5 ¹ / ₄ | 133 | 3 | 76 | 1 ¹ / ₄ | 32 | 3 | 75 | 5 ⁵ / ₁₆ | 8 |
| VVL-21785 | 300-500 MCM | .634-.815 | 6 ¹ / ₈ | 156 | 1 ³ / ₈ | 35 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₂ | 89 | 3 ³ / ₈ | 10 | VVL-21919 | 6 ¹ / ₈ | 156 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₂ | 89 | 3 ³ / ₈ | 10 |
| VVL-21790 | 500-800 MCM | .815-1.031 | 6 ¹ / ₂ | 165 | 1 ³ / ₄ | 44 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₄ | 83 | 3 ³ / ₈ | 10 | VVL-21921 | 6 ¹ / ₂ | 165 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₄ | 83 | 3 ³ / ₈ | 10 |
| VVL-21795 | 700-1000 MCM | .965-1.153 | 6 ³ / ₄ | 171 | 2 | 51 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₄ | 83 | 7 ¹ / ₁₆ | 11 | VVL-21925 | 6 ¹ / ₂ | 165 | 3 | 76 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₄ | 83 | 3 ³ / ₈ | 10 |
| VVL-21797 | 1000-1500 MCM | 1.153-1.412 | 7 ¹ / ₄ | 184 | 2 | 51 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₄ | 83 | 5 ⁵ / ₈ | 16 | VVL-21926 | 7 ¹ / ₄ | 184 | 3 | 76 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₄ | 83 | 1 ¹ / ₂ | 13 |
| VVL-21799 | 1500-2000 MCM | 1.412-1.632 | 8 ⁵ / ₈ | 219 | 2 ¹ / ₂ | 64 | 2 ³ / ₄ | 70 | 3 ¹ / ₄ | 83 | 5 ⁵ / ₈ | 16 | VVL-21928 | 8 ⁵ / ₈ | 219 | 3 | 76 | 2 ³ / ₄ | 70 | 3 ¹ / ₄ | 83 | 5 ⁵ / ₈ | 16 |

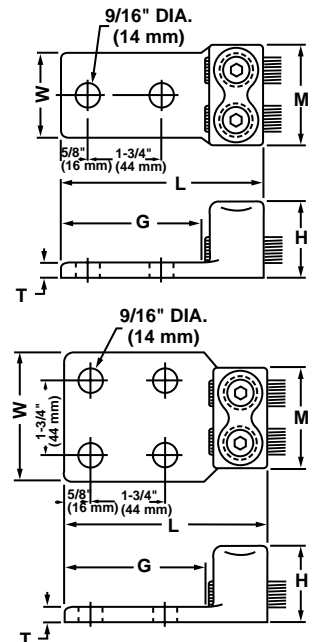
‡For conversion to metric range, see page 175.



DOUBLE HEAD
TYPE VL2

| Catalog Number 2-Hole Tongue | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | |
|---------------------------------|-------------------|----------------------|---------------------------------|-----|---------------------------------|-----|-------------------------------|-----|---------------------------------|----|-------------------------------|----|--------------------------------|----|
| | | | L | | M | | W | | H | | G | | T | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VL2-21766 | 4 Sol.-1 Str. | .204-.332 | 3 ¹⁵ / ₁₆ | 100 | 1 ³ / ₁₆ | 30 | 3 ³ / ₄ | 19 | 7 ⁷ / ₈ | 22 | 3 ¹ / ₈ | 79 | 7 ⁷ / ₃₂ | 6 |
| VL2-21768 | 2 Str.-2/0 Str. | .292-.419 | 4 | 102 | 1 ¹ / ₂ | 38 | 1 ¹ / ₂ | 38 | 1 ¹ / ₃₂ | 26 | 3 ¹ / ₈ | 79 | 7 ⁷ / ₃₂ | 6 |
| VL2-21774 | 1/0 Str.-4/0 Str. | .375-.528 | 4 ¹ / ₄ | 108 | 1 ³ / ₄ | 44 | 1 ³ / ₄ | 44 | 1 ⁹ / ₃₂ | 33 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VL2-21782 | 3/0 Str.-350 MCM | .470-.682 | 4 ⁵ / ₁₆ | 110 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹ / ₂ | 38 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₁₆ | 8 |
| VL2-21785 | 300-500 MCM | .634-.815 | 4 ¹ / ₂ | 114 | 2 ³ / ₈ | 60 | 2 | 51 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₂ | 89 | 3 ³ / ₈ | 10 |
| VL2-21790 | 500-800 MCM | .815-1.031 | 4 ⁵ / ₈ | 117 | 2 ¹³ / ₁₆ | 71 | 2 ¹ / ₈ | 54 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 7 ¹ / ₁₆ | 11 |
| VL2-21795 | 700-1000 MCM | .965-1.153 | 5 ⁵ / ₁₆ | 135 | 3 ¹ / ₈ | 79 | 2 ³ / ₈ | 60 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VL2-21797 | 1000-1500 MCM | 1.153-1.412 | 6 | 152 | 4 | 102 | 2 ⁷ / ₈ | 73 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₄ | 83 | 5 ⁵ / ₈ | 16 |
| VL2-21799 | 1500-2000 MCM | 1.412-1.632 | 6 ¹ / ₈ | 156 | 4 ³ / ₈ | 111 | 3 | 76 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₄ | 83 | 3 ³ / ₄ | 18 |
| 4-Hole Tongue | | | | | | | | | | | | | | |
| VL2-21918 | 3/0 Str.-350 MCM | .470-.682 | 4 ⁵ / ₁₆ | 110 | 3 | 76 | 3 | 76 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₁₆ | 8 |
| VL2-21919 | 300-500 MCM | .634-.815 | 4 ⁷ / ₁₆ | 113 | 2 ³ / ₈ | 60 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VL2-21921 | 500-800 MCM | .815-1.031 | 4 ⁵ / ₈ | 117 | 2 ¹³ / ₁₆ | 71 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 7 ¹ / ₁₆ | 11 |
| VL2-21925 | 700-1000 MCM | .965-1.153 | 5 ⁵ / ₁₆ | 135 | 3 ¹ / ₈ | 79 | 3 ¹ / ₄ | 83 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₄ | 83 | 1 ¹ / ₂ | 13 |
| VL2-21926 | 1000-1500 MCM | 1.153-1.412 | 6 | 152 | 4 | 102 | 3 ¹ / ₂ | 90 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₄ | 83 | 5 ⁵ / ₈ | 16 |
| VL2-21928 | 1500-2000 MCM | 1.412-1.632 | 6 ¹ / ₈ | 156 | 4 ³ / ₈ | 111 | 4 | 102 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₄ | 83 | 5 ⁵ / ₈ | 16 |

‡For conversion to metric range, see page 175.



BRONZE VI-TITE TERMINAL LUGS • TYPES VVL2 & VL3

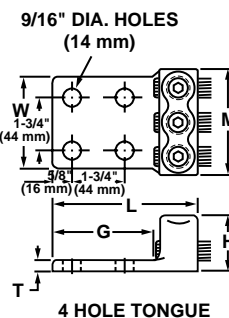
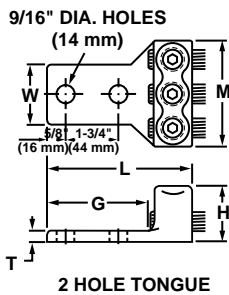
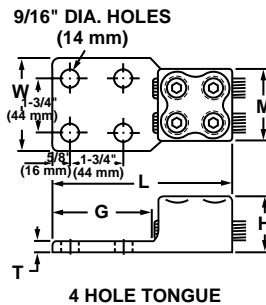
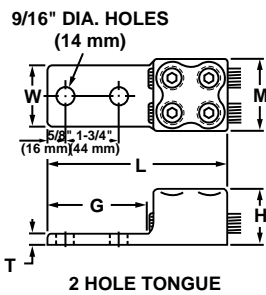


**DOUBLE TANDEM HEAD
TYPE VVL2**



**TRIPLE HEAD
TYPE VL3**

Body is cast from high strength corrosion resistant copper alloy. Bronze screw and pressure bar provides uniform clamping pressure without direct screw contact on conductor. Unique designed protuberances assure better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "-HH". For tin plated—suffix catalog number with "-TN".



TYPE VVL2

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | |
|----------------|-------------------|----------------------|-------------------------------|-----|---------------------------------|-----|-------------------------------|-----|---------------------------------|----|-------------------------------|----|--------------------------------|----|
| | | | L | | M | | W | | H | | G | | T | |
| 2-Hole Tongue | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VVL2-21766 | 4 Sol.—1 Str. | .204- .332 | 4 ³ / ₄ | 121 | 1 ¹ / ₄ | 32 | 1 ¹ / ₂ | 38 | 7 ⁷ / ₈ | 22 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VVL2-21768 | 2 Str.—2/0 Str. | .292- .419 | 4 ⁷ / ₈ | 124 | 1 ¹ / ₂ | 38 | 1 ¹ / ₂ | 38 | 1 ¹¹ / ₃₂ | 26 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VVL2-21774 | 1/0 Str.—4/0 Str. | .375- .528 | 5 ¹ / ₄ | 133 | 1 ³ / ₄ | 44 | 1 ³ / ₄ | 44 | 1 ⁹ / ₃₂ | 33 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VVL2-21780/82 | 3/0 Str.—350 MCM | .470- .682 | 5 ¹ / ₂ | 140 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹ / ₂ | 38 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₁₆ | 8 |
| VVL2-21785 | 300—500 MCM | .634- .815 | 5 ³ / ₄ | 146 | 2 ³ / ₈ | 60 | 2 ³ / ₈ | 60 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VVL2-21790 | 500—800 MCM | .815-1.031 | 6 ¹ / ₈ | 156 | 2 ¹³ / ₁₆ | 71 | 1 ³ / ₄ | 44 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL2-21795 | 700-1000 MCM | .965-1.153 | 6 ⁵ / ₈ | 168 | 3 ¹ / ₈ | 79 | 2 ¹ / ₈ | 54 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL2-21797 | 1000—1500 MCM | 1.153-1.412 | 7 ³ / ₄ | 197 | 4 ¹ / ₈ | 105 | 2 ³ / ₄ | 70 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₈ | 79 | 9 ⁹ / ₁₆ | 14 |
| VVL2-21799 | 1500-2000 MCM | 1.412-1.632 | 8 | 203 | 4 ³ / ₈ | 111 | 3 | 76 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |
| 4-Hole Tongue | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VVL2-21918 | 3/0 Str.—350 MCM | .470- .682 | 5 ¹ / ₂ | 140 | 1 ¹⁵ / ₁₆ | 49 | 3 | 76 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₁₆ | 8 |
| VVL2-21919 | 300—500 MCM | .634- .815 | 5 ³ / ₄ | 146 | 2 ³ / ₈ | 60 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VVL2-21921 | 500-800 MCM | .815-1.031 | 6 ¹ / ₈ | 156 | 2 ¹³ / ₁₆ | 71 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 7 ⁷ / ₁₆ | 11 |
| VVL2-21925 | 700-1000 MCM | .965-1.153 | 6 ⁵ / ₈ | 168 | 3 ¹ / ₈ | 79 | 4 | 102 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL2-21926 | 1000-1500 MCM | 1.153-1.412 | 7 ³ / ₄ | 197 | 4 ¹ / ₈ | 105 | 4 | 102 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL2-21928 | 1500-2000 MCM | 1.412-1.632 | 8 | 203 | 4 ³ / ₈ | 111 | 4 | 102 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |

‡For conversion to metric range, see page 175.

TYPE VL3

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | |
|----------------|-------------------|----------------------|---------------------------------|-----|--------------------------------|-----|-------------------------------|-----|---------------------------------|----|-------------------------------|----|--------------------------------|----|
| | | | L | | M | | W | | H | | G | | T | |
| 2-Hole Tongue | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VL3-21766 | 4 Sol.—1 Str. | .204- .332 | 3 ¹⁵ / ₁₆ | 100 | 1 ⁷ / ₈ | 48 | 1 ¹ / ₂ | 38 | 7 ⁷ / ₈ | 22 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VL3-21768 | 2 Str.—2/0 Str. | .292- .419 | 4 | 102 | 2 ³ / ₁₆ | 56 | 1 ⁵ / ₈ | 41 | 1 ¹¹ / ₃₂ | 26 | 3 ¹ / ₈ | 79 | 7 ⁷ / ₃₂ | 6 |
| VL3-21774 | 1/0 Str.—4/0 Str. | .375- .528 | 4 ¹ / ₄ | 108 | 2 ⁵ / ₈ | 67 | 1 ⁷ / ₈ | 46 | 1 ⁹ / ₃₂ | 33 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VL3-21782 | 3/0 Str.—350 MCM | .470- .682 | 4 ⁵ / ₁₆ | 110 | 2 ⁷ / ₈ | 73 | 1 ¹ / ₂ | 38 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₁₆ | 8 |
| VL3-21785 | 300-500 MCM | .634- .815 | 4 ¹ / ₂ | 114 | 3 ¹ / ₂ | 89 | 2 ¹ / ₂ | 64 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VL3-21790 | 500-800 MCM | .815-1.031 | 4 ⁵ / ₈ | 117 | 4 ³ / ₁₆ | 106 | 2 ¹ / ₂ | 64 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 7 ⁷ / ₁₆ | 11 |
| VL3-21795 | 700-1000 MCM | .965-1.153 | 5 ⁵ / ₁₆ | 135 | 4 ⁵ / ₈ | 117 | 2 ¹ / ₂ | 64 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₄ | 83 | 1 ¹ / ₂ | 13 |
| VL3-21797 | 1000-1500 MCM | 1.153-1.412 | 6 | 152 | 6 | 152 | 2 ¹ / ₂ | 64 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |
| VL3-21799 | 1500-2000 MCM | 1.412-1.632 | 6 ¹ / ₈ | 156 | 6 ³ / ₄ | 171 | 3 | 76 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |
| 4-Hole Tongue | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VL3-21918 | 3/0 Str.—350 MCM | .470- .682 | 4 ⁵ / ₁₆ | 110 | 2 ⁷ / ₈ | 73 | 3 | 76 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₁₆ | 8 |
| VL3-21919 | 300-500 MCM | .634- .815 | 4 ⁷ / ₁₆ | 113 | 3 ¹ / ₂ | 89 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VL3-21921 | 500-800 MCM | .815-1.031 | 4 ⁵ / ₈ | 117 | 4 ³ / ₁₆ | 106 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VL3-21925 | 700-1000 MCM | .965-1.153 | 5 ⁵ / ₁₆ | 135 | 4 ⁵ / ₈ | 117 | 3 | 76 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₄ | 83 | 1 ¹ / ₂ | 13 |
| VL3-21926 | 1000-1500 MCM | 1.153-1.412 | 6 | 152 | 6 | 152 | 3 ¹ / ₂ | 89 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |
| VL3-21928 | 1500-2000 MCM | 1.412-1.632 | 6 ¹ / ₈ | 156 | 6 ³ / ₄ | 171 | 4 | 102 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |

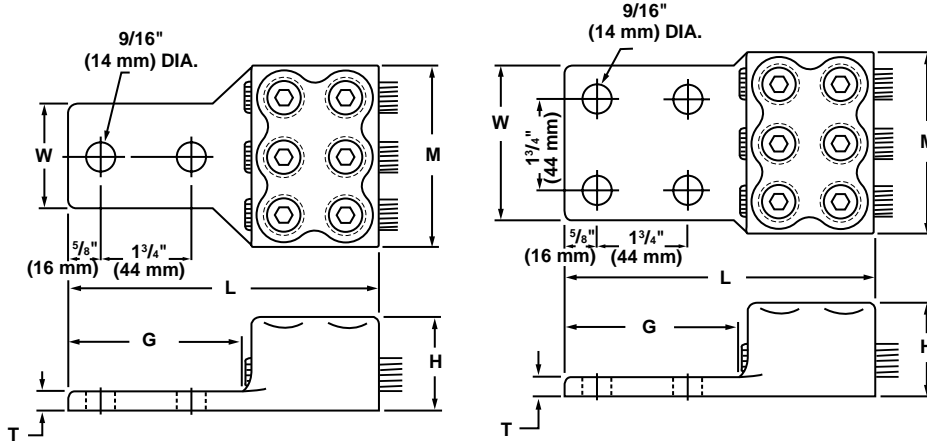
‡For conversion to metric range, see page 175.

BRONZE VI-TITE TERMINAL LUGS • TYPE VVL3



THREE CABLE
TANDEM HEAD
TYPE VVL3

Body is cast from high strength corrosion resistant copper alloy. Bronze screw and pressure bar provides uniform clamping pressure without direct screw contact on conductor. Unique designed protuberances assure better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "-HH". For tin plated—suffix catalog number with "-TN".



2-HOLE TONGUE

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | |
|----------------|-------------------|----------------------|-------------------------------|-----|--------------------------------|-----|-------------------------------|----|---------------------------------|----|-------------------------------|----|--------------------------------|----|
| | | | L | | M | | W | | H | | G | | T | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VVL3-21766 | 4 Sol.-1 Str. | .204- .332 | 4 ³ / ₄ | 121 | 1 ⁷ / ₈ | 48 | 1 ¹ / ₂ | 38 | 7 ⁷ / ₈ | 22 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VVL3-21768 | 2 Str.-2/0 Str. | .292- .419 | 4 ⁷ / ₈ | 124 | 2 ³ / ₁₆ | 56 | 1 ¹ / ₂ | 38 | 1 ¹ / ₃₂ | 26 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VVL3-21774 | 1/0 Str.-4/0 Str. | .375- .528 | 5 ¹ / ₄ | 133 | 2 ⁵ / ₈ | 67 | 1 ³ / ₄ | 44 | 1 ⁹ / ₃₂ | 33 | 3 ¹ / ₈ | 79 | 1 ¹ / ₄ | 6 |
| VVL3-21782 | 3/0 Str.-350 MCM | .470- .682 | 5 ¹ / ₂ | 140 | 2 ⁷ / ₈ | 73 | 1 ¹ / ₂ | 38 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₁₆ | 8 |
| VVL3-21785 | 300-500 MCM | .634- .815 | 5 ³ / ₄ | 146 | 3 ¹ / ₂ | 89 | 2 ³ / ₈ | 60 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VVL3-21790 | 500-800 MCM | .815-1.031 | 6 ¹ / ₈ | 156 | 4 ³ / ₁₆ | 106 | 1 ³ / ₄ | 44 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL3-21795 | 700-1000 MCM | .965-1.153 | 6 ⁵ / ₈ | 168 | 4 ⁵ / ₈ | 117 | 2 ¹ / ₈ | 54 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL3-21797 | 1000-1500 MCM | 1.153-1.412 | 7 ³ / ₄ | 197 | 6 | 152 | 2 ³ / ₄ | 70 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₈ | 79 | 9 ⁹ / ₁₆ | 14 |
| VVL3-21799 | 1500-2000 MCM | 1.412-1.632 | 8 | 203 | 6 ³ / ₄ | 171 | 3 | 76 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |

‡For conversion to metric range, see page 175.

4-HOLE TONGUE

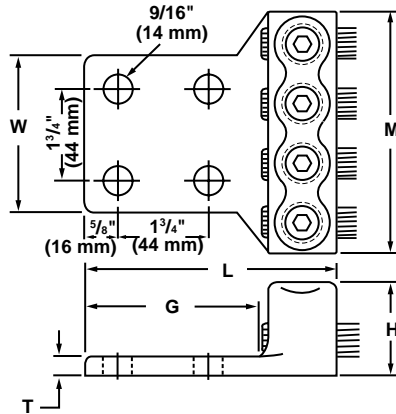
| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | |
|----------------|------------------|----------------------|-------------------------------|-----|--------------------------------|-----|----|-----|---------------------------------|----|-------------------------------|----|--------------------------------|----|
| | | | L | | M | | W | | H | | G | | T | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VVL3-21918 | 3/0 Str.-350 MCM | .470- .682 | 5 ¹ / ₂ | 140 | 2 ⁷ / ₈ | 73 | 3 | 76 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₁₆ | 8 |
| VVL3-21919 | 300-500 MCM | .634- .815 | 5 ³ / ₄ | 146 | 3 ¹ / ₂ | 89 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VVL3-21921 | 500-800 MCM | .815-1.031 | 6 ¹ / ₈ | 156 | 4 ³ / ₁₆ | 106 | 3 | 76 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 7 ⁷ / ₁₆ | 11 |
| VVL3-21925 | 700-1000 MCM | .965-1.153 | 6 ⁵ / ₈ | 168 | 4 ⁵ / ₈ | 117 | 4 | 102 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL3-21926 | 1000-1500 MCM | 1.153-1.412 | 7 ³ / ₄ | 197 | 6 | 152 | 4 | 102 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL3-21928 | 1500-2000 MCM | 1.412-1.632 | 8 | 203 | 6 ³ / ₄ | 171 | 4 | 102 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |

‡For conversion to metric range, see page 175.

BRONZE VI-TITE TERMINAL LUGS • TYPES VL4 & VVL4



FOUR CABLE HEAD
TYPE VL4



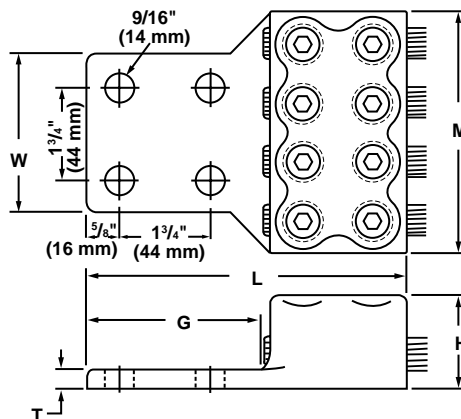
Body is cast from high strength corrosion resistant copper alloy. Bronze screw and pressure bar provides uniform clamping pressure without direct screw contact on conductor. Unique designed protuberances assure better resistance to horizontal pull. Hex head screws can be furnished on request by suffixing catalog numbers with "-HH". For tin plated—suffix catalog number with "-TN".

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | |
|----------------|------------------|----------------------|--------------------------------|-----|-------------------------------|-----|-------------------------------|-----|---------------------------------|----|-------------------------------|----|-------------------------------|----|
| | | | L | | M | | W | | H | | G | | T | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VL4-21917/18 | 2/0 Str.—350 MCM | .419- .682 | 4 ⁵ / ₁₆ | 110 | 3 ⁷ / ₈ | 98 | 3 | 76 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VL4-21919 | 300-500 MCM | .634- .815 | 4 ¹ / ₂ | 114 | 4 ³ / ₄ | 121 | 3 ¹ / ₂ | 89 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VL4-21921 | 500-800 MCM | .815-1.031 | 4 ⁵ / ₈ | 117 | 5 ⁵ / ₈ | 143 | 4 | 102 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VL4-21925 | 700-1000 MCM | .965-1.153 | 5 ⁵ / ₁₆ | 135 | 6 ¹ / ₄ | 159 | 4 | 102 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₄ | 83 | 1 ¹ / ₂ | 13 |
| VL4-21926 | 1000-1500 MCM | 1.153-1.412 | 6 | 152 | 8 | 203 | 4 ¹ / ₂ | 114 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |
| VL4-21928 | 1500-2000 MCM | 1.412-1.632 | 6 ¹ / ₈ | 156 | 9 | 229 | 5 | 127 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₈ | 79 | 3 ³ / ₄ | 19 |

‡For conversion to metric range, see page 175.



FOUR CABLE TANDEM HEAD
TYPE VVL4

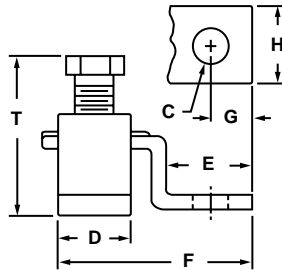


| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | |
|----------------|------------------|----------------------|-------------------------------|-----|-------------------------------|-----|-------------------------------|-----|---------------------------------|----|-------------------------------|----|-------------------------------|----|
| | | | L | | M | | W | | H | | G | | T | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| VVL4-21918 | 3/0 Str.—350 MCM | .470- .682 | 5 ¹ / ₂ | 140 | 3 ⁷ / ₈ | 98 | 3 | 76 | 1 ³ / ₈ | 35 | 3 ¹ / ₈ | 79 | 3 ³ / ₈ | 10 |
| VVL4-21919 | 300-500 MCM | .634- .815 | 5 ³ / ₄ | 146 | 4 ³ / ₄ | 121 | 3 ¹ / ₂ | 89 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL4-21921 | 500-800 MCM | .815-1.031 | 6 ¹ / ₈ | 156 | 5 ⁵ / ₈ | 143 | 4 | 102 | 1 ¹³ / ₁₆ | 46 | 3 ¹ / ₈ | 79 | 1 ¹ / ₂ | 13 |
| VVL4-21925 | 700-1000 MCM | .965-1.153 | 6 ⁵ / ₈ | 168 | 6 ¹ / ₄ | 159 | 4 | 102 | 2 ¹ / ₁₆ | 52 | 3 ¹ / ₄ | 83 | 1 ¹ / ₂ | 13 |
| VVL4-21926 | 1000-1500 MCM | 1.153-1.412 | 7 ³ / ₄ | 197 | 8 | 203 | 4 ¹ / ₂ | 114 | 2 ⁵ / ₁₆ | 59 | 3 ¹ / ₈ | 79 | 5 ⁵ / ₈ | 16 |
| VVL4-21928 | 1500-2000 MCM | 1.412-1.632 | 8 | 203 | 9 | 229 | 5 | 127 | 2 ¹¹ / ₁₆ | 68 | 3 ¹ / ₈ | 79 | 3 ³ / ₄ | 19 |

‡For conversion to metric range, see page 175.

COPPER SOLDERLESS LUGS • TYPES SLU & SAU

One hole, single collar



100% pure electrolytic copper for utmost efficiency.

Unique design of the concave pressure bar and V-bottom collar assures positive contact and firm, permanent grip. For tin plated—suffix catalog number “-TN”.

| Catalog Number | Conductor Range (Copper Stranded) | Approximate Dimensions | | | | | | | | | | | | | | Ampere Rating NEC |
|----------------|--------------------------------------------------------------------|-------------------------------|-------|------------------------------|-------|-------------------------------|-------|-------------------------------|--------|-------------------------------|-------|------------------------------|-------|--------------------------------|-------|----------------------|
| | | C | | D | | E | | F | | G | | H | | T | | |
| | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | |
| SLU-25† | 10, 12, 14 | ⁵ / ₃₂ | 3.96 | ⁹ / ₃₂ | 7.14 | ¹⁵ / ₃₂ | 5.55 | ¹⁵ / ₁₆ | 25.40 | ³ / ₁₆ | 4.76 | ⁵ / ₁₆ | 7.93 | ²¹ / ₃₂ | 16.66 | 25 |
| SLU-35† | 6, 8, 10, 12, 14 | ¹³ / ₆₄ | 5.15 | ⁷ / ₁₆ | 11.11 | ⁹ / ₁₆ | 12.70 | ¹¹ / ₈ | 30.16 | ⁷ / ₃₂ | 5.55 | ³ / ₈ | 9.52 | ³ / ₄ | 19.05 | 35-50 |
| SAU-70† | 4, 6, 8, 10, 12, 14 | ¹⁷ / ₆₄ | 6.74 | ⁷ / ₁₆ | 11.11 | ¹⁷ / ₃₂ | 13.49 | ¹¹ / ₄ | 33.33 | ¹ / ₄ | 6.35 | ¹ / ₂ | 12.70 | ¹³ / ₁₆ | 20.63 | 70 |
| SLU-70† | 2, 4, 6, 8 | ¹⁷ / ₆₄ | 6.74 | ¹ / ₂ | 12.70 | ¹¹ / ₁₆ | 18.25 | ¹⁷ / ₁₆ | 38.89 | ¹ / ₄ | 6.35 | ¹ / ₂ | 12.70 | 1 | 25.40 | 70-90 |
| SLU-125 | 1/0, 1, 2, 4, 6, 8 | ¹⁷ / ₆₄ | 6.74 | ⁵ / ₈ | 15.87 | ⁷ / ₈ | 20.63 | ¹⁷ / ₈ | 50.00 | ⁷ / ₁₆ | 11.11 | ⁵ / ₈ | 15.87 | ¹¹ / ₃₂ | 34.13 | 125 |
| SLU-175 | 3/0, 2/0, 1/0, 1, 2, 4 | ¹³ / ₃₂ | 10.31 | ³ / ₄ | 19.05 | ¹¹ / ₃₂ | 26.19 | ²¹ / ₄ | 53.97 | ⁷ / ₁₆ | 11.11 | ³ / ₄ | 19.05 | ¹⁹ / ₁₆ | 39.68 | 175 |
| SLU-225 | 4/0, 3/0, 2/0, 1/0, 1, 2 | ¹¹ / ₃₂ | 8.73 | 1 | 25.40 | ¹³ / ₃₂ | 29.36 | ²³ / ₈ | 66.67 | ¹⁵ / ₃₂ | 12.70 | 1 | 25.40 | ¹¹³ / ₁₆ | 46.03 | 225 |
| * SLU-300 | 350 MCM, 300 MCM, 250 MCM, 200 MCM, 4/0, 3/0, 2/0, 1/0 | ¹³ / ₃₂ | 10.31 | ¹¹ / ₄ | 31.75 | ¹⁹ / ₁₆ | 38.10 | ³⁷ / ₃₂ | 80.96 | ¹ / ₂ | 12.70 | 1 | 25.40 | ²⁵ / ₈ | 66.67 | 300 |
| * SLU-400 | 500 MCM, 400 MCM, 350 MCM, 300 MCM, 250 MCM, 4/0, 3/0, 2/0, 1/0 | ¹³ / ₃₂ | 10.31 | ¹¹ / ₂ | 38.10 | ¹⁷ / ₈ | 49.21 | ⁴¹ / ₁₆ | 107.95 | ²⁹ / ₃₂ | 23.81 | ¹¹ / ₂ | 38.10 | ²³ / ₄ | 69.85 | 400 |
| * SLU-650 | 1000 MCM, 900 MCM, 800 MCM, 750 MCM, 700 MCM, 600 MCM | ¹⁷ / ₃₂ | 13.49 | ¹⁷ / ₈ | 47.62 | ²¹ / ₈ | 47.62 | ⁴⁵ / ₈ | 117.47 | ¹³ / ₁₆ | 30.16 | 2 | 50.80 | ³¹¹ / ₁₆ | 93.66 | 650 |

*Add suffix “C” for CSA Certified Product
 †Slotted screw

MULTIPLE SOLDERLESS LUG • TYPE LU



Made from electrolytic copper for utmost efficiency. Screws are cadmium plated steel. Unique design of the concave pressure bar and V-bottom collar assures positive contact and firm, permanent grip. For tin plated—suffix catalog number “-TN”.

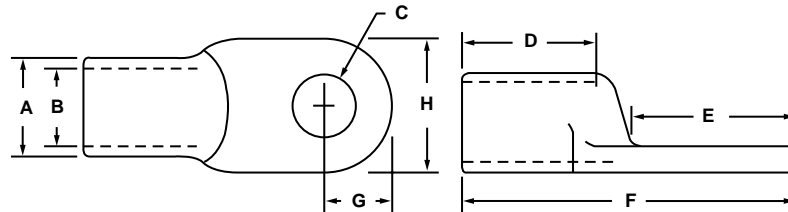
| Catalog Number | Conductor Range (Copper Stranded) | Ampere Rating NEC |
|----------------|----------------------------------------------------------------------------------------------------------|----------------------|
| LU-2 | 2 No. 4/0, 2 No. 3/0, 2 No. 2/0 | 400 |
| LU-4 | 2 No. 350 MCM, 2 No. 300 MCM, 2 No. 250 MCM 2 No. 4/0, 2 No. 200 MCM, 2 No. 3/0, 2 No. 2/0, 2 No. 1/0 | 600 |
| LU-6 | 2 No. 500 MCM, 2 No. 400 MCM, 2 No. 350 MCM 2 No. 300 MCM, 2 No. 250 MCM, 2 No. 4/0 | 800 |

COPPER SINGLE-HOLE SOLDERING LUGS • TYPE SL



Made of pure electrolytic copper tubing.

Except when requirements are shown, 25-amp. to 250-amp. will be furnished round end, and 325-amp. to 650-amp. square end.



| Catalog Number | Mfg's Size | Amp. Rate NEC | Conductor Size | Wire Dia. ‡ | Approximate Dimensions | | | | | | | | | | | | | | | |
|----------------|------------|---------------|----------------|-------------|------------------------|-------|----------------------|-------|------------------|-------|-----------------------|-------|------------------|-------|-------------------|--------|-------------------------------------------|-------|-----------------|-------|
| | | | | | A Out-Side Dia. | | B Dia. of Cable Hole | | C Stud Hole Size | | D Depth of Cable Hole | | E Length of Tang | | F Length Over-All | | G Center of Last Stud Hole to End of Tang | | H Width of Tang | |
| | | | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| SL-25 | 3/16 | 25 | 10 Str. | .116 | 3/16 | 4.76 | .143 | 3.57 | 11/64 | 4.36 | 11/32 | 8.73 | 15/32 | 11.90 | 15/16 | 23.81 | 3/16 | 4.76 | 1/4 | 6.35 |
| SL-35 | 1/4 | 35 | 8 Str. | .146 | 1/4 | 6.35 | .186 | 4.76 | 13/64 | 5.15 | 11/32 | 8.73 | 1/2 | 12.70 | 11/32 | 26.19 | 7/32 | 5.55 | 3/8 | 9.52 |
| SL-50 | 5/16 | 50 | 6 Str. | .184 | 5/16 | 7.93 | .238 | 5.95 | 13/64 | 5.15 | 3/8 | 9.52 | 19/32 | 15.08 | 17/32 | 30.95 | 1/4 | 6.35 | 7/16 | 11.11 |
| SL-70 | 3/8 | 70 | 4 Str. | .232 | 3/8 | 9.52 | .289 | 7.54 | 9/32 | 7.14 | 7/16 | 11.11 | 11/16 | 17.46 | 13/8 | 34.92 | 9/32 | 7.14 | 17/32 | 13.49 |
| SL-90 | 7/16 | 90 | 2 Str. | .292 | 7/16 | 11.11 | .347 | 8.73 | 9/32 | 7.14 | 1/2 | 12.70 | 3/4 | 19.05 | 11/2 | 38.10 | 11/32 | 8.73 | 5/8 | 15.87 |
| SL-125 | 1/2 | 125 | 1/0 Str. | .375 | 1/2 | 12.70 | .398 | 9.92 | 11/32 | 8.73 | 9/16 | 14.28 | 13/16 | 20.63 | 13/4 | 44.45 | 13/32 | 10.31 | 3/4 | 19.05 |
| SL-150 | 9/16 | 150 | 2/0 Str. | .419 | 9/16 | 14.28 | .460 | 11.50 | 13/32 | 10.31 | 11/16 | 17.46 | 15/16 | 23.81 | 2 | 50.80 | 7/16 | 11.11 | 13/16 | 20.63 |
| SL-175 | 5/8 | 175 | 3/0 Str. | .470 | 5/8 | 15.87 | .519 | 13.09 | 13/32 | 10.31 | 25/32 | 19.84 | 1 | 25.40 | 21/8 | 53.97 | 1/2 | 12.70 | 29/32 | 23.01 |
| SL-225 | 11/16 | 225 | 4/0 Str. | .528 | 11/16 | 17.46 | .559 | 14.28 | 13/32 | 10.31 | 27/32 | 21.43 | 15/32 | 29.36 | 23/8 | 60.32 | 17/32 | 13.49 | 31/32 | 24.60 |
| SL-250 | 13/16 | 250 | 250 MCM | .575 | 13/16 | 20.63 | .660 | 16.66 | 13/32 | 10.31 | 31/32 | 24.60 | 11/4 | 31.75 | 221/32 | 67.46 | 5/8 | 15.87 | 13/8 | 30.16 |
| SL-325 | 15/16 | 325 | 400 MCM | .728 | 15/16 | 23.81 | .776 | 19.84 | 13/32 | 10.31 | 13/16 | 30.16 | 15/8 | 41.27 | 33/8 | 85.72 | 3/4 | 19.05 | 13/8 | 34.92 |
| SL-400 | 11/16 | 400 | 500 MCM | .815 | 11/16 | 26.98 | .887 | 22.62 | 13/32 | 10.31 | 11/2 | 38.10 | 21/8 | 53.97 | 45/32 | 105.56 | 15/16 | 23.81 | 19/16 | 39.68 |
| SL-450 | 11/8 | 450 | 600 MCM | .893 | 11/8 | 28.57 | .943 | 23.81 | 13/32 | 10.31 | 11/2 | 38.10 | 21/4 | 57.15 | 47/16 | 112.71 | 1 | 25.40 | 15/8 | 41.27 |
| SL-550 | 15/16 | 550 | 800 MCM | 1.031 | 15/16 | 33.33 | 1.084 | 26.98 | 17/32 | 13.49 | 2 | 50.80 | 21/2 | 63.50 | 51/16 | 128.58 | 11/8 | 26.57 | 115/16 | 49.21 |
| SL-650 | 17/16 | 650 | 1000 MCM | 1.153 | 17/16 | 36.51 | 1.21 | 30.95 | 29/32 | 23.01 | 2 | 50.80 | 21/2 | 63.50 | 53/8 | 136.52 | 13/16 | 30.16 | 21/8 | 53.97 |

‡For conversion to metric range, see page 175.

BRONZE TERMINAL LUG • TYPE RA

Side formed for tubing



Made from high copper content alloy. Furnished with silicon bronze bolts, nuts and lockwashers.

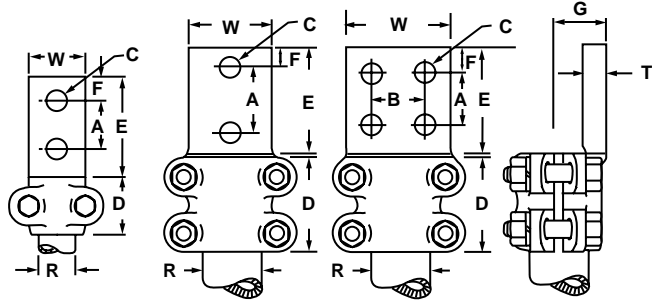


Fig. 1

Fig. 2

Fig. 3

| Catalog Number | R IPS Size | No. Holes in Contact Tongue | Fig. No. | Approximate Dimensions | | | | | | | | | | | | | | | | | | Bolt Size |
|----------------|------------|-----------------------------|----------|------------------------|-----|-------|----|-------|----|------|----|-------|----|-------|-----|-------|----|-------|----|---------|----|-----------|
| | | | | W | | A | | B | | C | | D | | E | | F | | T | | G | | |
| | | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | |
| RA-03-2B | 3/8 | 2 | 1 | 1 3/8 | 35 | 1 | 25 | - | - | 7/16 | 11 | 1 3/8 | 35 | 2 | 51 | 7/16 | 11 | 1/4 | 6 | 7/8 | 22 | 3/8 |
| RA-03-2N | 3/8 | 2 | 1 | 1 3/8 | 35 | 1 3/4 | 44 | - | - | 9/16 | 14 | 1 3/8 | 35 | 3 | 76 | 9/16 | 14 | 9/32 | 7 | 7/8 | 22 | 3/8 |
| RA-05-2B | 1/2 | 2 | 1 | 1 1/2 | 38 | 1 1/8 | 29 | - | - | 7/16 | 11 | 1 1/2 | 38 | 2 | 51 | 7/16 | 11 | 5/16 | 8 | 7/8 | 22 | 3/8 |
| RA-05-2N | 1/2 | 2 | 2 | 1 1/2 | 38 | 1 3/4 | 44 | - | - | 9/16 | 14 | 2 1/4 | 57 | 3 | 76 | 9/16 | 14 | 5/16 | 8 | 7/8 | 22 | 3/8 |
| RA-07-2B | 3/4 | 2 | 2 | 1 1/2 | 38 | 1 3/8 | 35 | - | - | 7/16 | 11 | 2 | 51 | 2 1/4 | 57 | 7/16 | 11 | 5/16 | 8 | 13/16 | 21 | 3/8 |
| RA-07-2N | 3/4 | 2 | 2 | 1 1/2 | 38 | 1 3/4 | 44 | - | - | 9/16 | 14 | 2 | 51 | 3 | 76 | 9/16 | 14 | 5/16 | 8 | 13/16 | 21 | 3/8 |
| RA-07-F | 3/4 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 | 51 | 3 | 76 | 9/16 | 14 | 3/8 | 9 | 7/8 | 22 | 3/8 |
| RA-10-2B | 1 | 2 | 2 | 2 | 51 | 1 3/8 | 35 | - | - | 7/16 | 11 | 2 1/4 | 57 | 2 3/8 | 60 | 7/16 | 11 | 3/8 | 9 | 1 | 25 | 3/8 |
| RA-10-D | 1 | 2 | 2 | 2 | 51 | 1 3/4 | 44 | - | - | 9/16 | 14 | 2 1/4 | 57 | 3 1/4 | 83 | 9/16 | 14 | 3/8 | 9 | 1 | 25 | 3/8 |
| RA-10-F | 1 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 1/4 | 57 | 3 1/4 | 83 | 9/16 | 14 | 5/16 | 8 | 1 5/16 | 24 | 3/8 |
| RA-12-D | 1 1/4 | 2 | 2 | 2 | 51 | 1 3/4 | 44 | - | - | 9/16 | 14 | 2 3/4 | 70 | 3 | 76 | 9/16 | 14 | 7/16 | 11 | 1 1/4 | 32 | 1/2 |
| RA-12-F | 1 1/4 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 3/4 | 70 | 3 | 76 | 9/16 | 14 | 11/32 | 8 | 1 5/32 | 29 | 1/2 |
| RA-12-E | 1 1/4 | 4 | 3 | 4 | 102 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 3/4 | 70 | 4 | 102 | 1 1/8 | 29 | 5/16 | 8 | 1 1/8 | 29 | 1/2 |
| RA-15-D | 1 1/2 | 2 | 2 | 2 | 51 | 1 3/4 | 44 | - | - | 9/16 | 14 | 2 3/4 | 70 | 3 | 76 | 9/16 | 14 | 7/16 | 11 | 1 1/4 | 32 | 1/2 |
| RA-15-F | 1 1/2 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 3/4 | 70 | 3 | 76 | 9/16 | 14 | 1/2 | 13 | 1 5/16 | 33 | 1/2 |
| RA-15-E | 1 1/2 | 4 | 3 | 4 | 102 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 3/4 | 70 | 4 | 102 | 1 1/8 | 29 | 3/8 | 9 | 1 3/16 | 30 | 1/2 |
| RA-20-D | 2 | 2 | 2 | 2 | 51 | 1 3/4 | 44 | - | - | 9/16 | 14 | 2 3/4 | 70 | 3 | 76 | 9/16 | 14 | 1/2 | 13 | 1 11/16 | 43 | 1/2 |
| RA-20-F | 2 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 3/4 | 70 | 3 | 76 | 9/16 | 14 | 1/2 | 13 | 1 11/16 | 43 | 1/2 |
| RA-20-E | 2 | 4 | 3 | 4 | 102 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 3/4 | 70 | 4 | 102 | 1 1/8 | 29 | 7/16 | 11 | 1 5/8 | 41 | 1/2 |
| RA-25-D | 2 1/2 | 2 | 2 | 2 | 51 | 1 3/4 | 44 | - | - | 9/16 | 14 | 2 3/4 | 70 | 3 | 76 | 9/16 | 14 | 11/16 | 17 | 2 | 51 | 1/2 |
| RA-25-F | 2 1/2 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 3/4 | 70 | 3 | 76 | 9/16 | 14 | 11/16 | 17 | 2 | 51 | 1/2 |
| RA-25-E | 2 1/2 | 4 | 3 | 4 | 102 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 2 3/4 | 70 | 4 | 102 | 1 1/8 | 29 | 5/8 | 16 | 1 15/16 | 49 | 1/2 |
| RA-30-F | 3 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 3 1/4 | 83 | 3 | 76 | 9/16 | 14 | 11/16 | 17 | 2 1/2 | 64 | 5/8 |
| RA-30-E | 3 | 4 | 3 | 4 | 102 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 3 1/4 | 83 | 4 | 102 | 1 1/8 | 29 | 5/8 | 16 | 2 7/16 | 62 | 5/8 |
| RA-35-F | 3 1/2 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 3 1/4 | 83 | 3 | 76 | 9/16 | 14 | 3/4 | 19 | 2 11/16 | 68 | 5/8 |
| RA-35-E | 3 1/2 | 4 | 3 | 4 | 102 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 3 1/4 | 83 | 4 | 102 | 1 1/8 | 29 | 3/4 | 19 | 2 11/16 | 68 | 5/8 |
| RA-40-F | 4 | 4 | 3 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 3 1/4 | 83 | 3 | 76 | 9/16 | 14 | 3/4 | 19 | 3 1/8 | 79 | 5/8 |
| RA-40-E | 4 | 4 | 3 | 4 | 102 | 1 3/4 | 44 | 1 3/4 | 44 | 9/16 | 14 | 3 1/4 | 83 | 4 | 102 | 1 1/8 | 29 | 3/4 | 19 | 3 1/8 | 79 | 5/8 |

For use with aluminum conductors, order tin plated-suffix catalog numbers with "-TN".

BRONZE TERMINAL LUG • TYPES RAR, RARE and RAR2

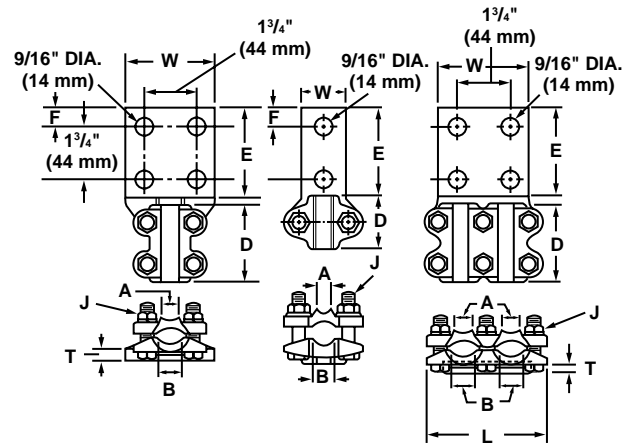
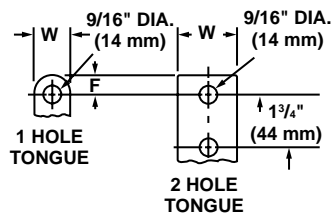
For cable range to flat



Reversible, range taking, high strength cap.

Cast from high copper content alloy. Furnished with silicon bronze bolts, nuts and lockwashers.

Standard NEMA drilled tongue.



TYPE RAR (1 cable-4 bolts)

| Catalog Number | Conductor Range A | Wire Diameter Range‡ In | Conductor Range B | Wire Diameter Range‡ in | No. of Holes in Tongue | Approximate Dimensions | | | | | | | | | | | |
|----------------|-------------------|-------------------------|-------------------|-------------------------|------------------------|------------------------|-----|-------|----|-----|----|-------|----|-------|----|-----|--|
| | | | | | | D | | E | | F | | T | | W | | J | |
| | | | | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | |
| RAR-021-S | 8 Sol.-1 Str. | .128-.332 | 1/0 Str.-4/0 Str. | .375-.528 | 1 | 2 1/4 | 57 | 1 3/4 | 44 | 3/4 | 19 | 5/16 | 8 | 1 1/2 | 38 | 3/8 | |
| RAR-021-D | 6 Str.-1 Str. | .184-.332 | 1/0 Str.-4/0 Str. | .375-.528 | 2 | 2 1/4 | 57 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 1 1/2 | 38 | 3/8 | |
| RAR-025-D | 6 Sol.-1 Str. | .162-.332 | 1/0 Str.-250 MCM | .375-.575 | 2 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 1 1/2 | 38 | 3/8 | |
| RAR-025-DH | 6 Sol.-1 Str. | .162-.332 | 1/0 Str.-250 MCM | .375-.575 | 2 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 1 1/2 | 38 | 1/2 | |
| RAR-025-F | 4 Sol. 1/0 Str. | .204-.375 | 2/0 Str.-250 MCM | .419-.575 | 4 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 3 | 76 | 3/8 | |
| RAR-025-FH | 4 Sol.-1/0 Str. | .204-.375 | 2/0 Str.-250 MCM | .419-.575 | 4 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 3 | 76 | 1/2 | |
| RAR-050-D | 1/0 Str.-4/0 Str. | .375-.528 | 250-500 MCM | .575-.815 | 2 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 3/8 | 9 | 1 3/4 | 44 | 3/8 | |
| RAR-050-DH | 1/0 Str.-4/0 Str. | .375-.528 | 250-500 MCM | .575-.815 | 2 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 3/8 | 9 | 1 3/4 | 44 | 1/2 | |
| RAR-050-F | 1/0 Str.-4/0 Str. | .375-.528 | 250-500 MCM | .575-.815 | 4 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 3/8 | 9 | 3 | 76 | 3/8 | |
| RAR-050-FH | 1/0 Str.-4/0 Str. | .375-.528 | 250-500 MCM | .575-.815 | 4 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 3/8 | 9 | 3 | 76 | 1/2 | |
| RAR-080-D | 2 Sol.-4/0 Str. | .258-.528 | 250-800 MCM | .575-1.031 | 2 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 13/32 | 10 | 2 | 51 | 1/2 | |
| RAR-080-F | 2 Sol.-4/0 Str. | .258-.528 | 250-800 MCM | .575-1.031 | 4 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 13/32 | 10 | 3 | 76 | 1/2 | |
| RAR-100-D | 4/0 Str.-550 MCM | .528-.855 | 600-1000 MCM | .893-1.153 | 2 | 3 | 76 | 3 | 76 | 5/8 | 16 | 7/16 | 11 | 2 | 51 | 1/2 | |
| RAR-100-F | 4/0 Str.-550 MCM | .528-.855 | 600-1000 MCM | .893-1.153 | 4 | 3 | 76 | 3 | 76 | 5/8 | 16 | 3/8 | 9 | 3 | 76 | 1/2 | |
| RAR-200-D | 500-1000 MCM | .815-1.153 | 1100-2000 MCM | 1.209-1.632 | 2 | 5 1/4 | 133 | 3 | 76 | 5/8 | 16 | 9/16 | 14 | 1 1/2 | 38 | 1/2 | |
| RAR-200-F | 500-1000 MCM | .815-1.153 | 1100-2000 MCM | 1.209-1.632 | 4 | 5 1/4 | 133 | 3 | 76 | 5/8 | 16 | 1/2 | 13 | 3 | 76 | 1/2 | |

TYPE RARE (1 cable-2 bolts)

| | | | | | | | | | | | | | | | | |
|------------|-------------------|-----------|------------------|-----------|---|-------|----|---|----|-----|----|-----|---|-------|----|-----|
| RARE-025-D | 6 Sol.-1 Str. | .162-.332 | 1/0 Str.-250 MCM | .375-.575 | 2 | 1 1/2 | 38 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 1 1/2 | 38 | 3/8 |
| RARE-050-D | 1/0 Str.-1/0 Str. | .375-.528 | 250-500 MCM | .575-.815 | 2 | 1 3/4 | 44 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 1 1/2 | 38 | 3/8 |

TYPE RAR2 (2 cables-6 bolts)

| Catalog Number | Conductor Range A | Wire Diameter Range‡ In | Conductor Range B | Wire Diameter Range‡ in | No. of Holes in Tongue | Approximate Dimensions | | | | | | | | | | | | L | |
|----------------|-------------------|-------------------------|-------------------|-------------------------|------------------------|------------------------|-----|----|-----|-------|----|-------|----|-------|-----|-----|--------|-----|--|
| | | | | | | D | | E | | F | | T | | W | | J | in | mm | |
| | | | | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | | |
| RAR2-025-D | 6 Sol.-1 Str. | .162-.332 | 1/0 Str.-250 MCM | .375-.575 | 2 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 2 | 51 | 1/2 | 3 5/8 | 92 | |
| RAR2-025-F | 6 Sol.-4/0 Str. | .204-.375 | 2/0 Str.-250 MCM | .419-.575 | 4 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 1/4 | 6 | 3 | 76 | 1/2 | 3 5/8 | 92 | |
| RAR2-050-D | 1/0 Str.-4/0 Str. | .375-.528 | 250-500 MCM | .575-.815 | 2 | 2 1/2 | 64 | 3 | 76 | 5/8 | 16 | 1/2 | 13 | 2 1/2 | 64 | 1/2 | 4 1/8 | 105 | |
| RAR2-050-E | 1/0 Str.-4/0 Str. | .375-.528 | 250-500 MCM | .575-.815 | 4 | 2 1/2 | 64 | 4 | 102 | 1 1/8 | 29 | 3/8 | 9 | 4 | 102 | 3/8 | 4 1/8 | 105 | |
| RAR2-080-D | 2 Sol.-4/0 Str. | .258-.528 | 250-800 MCM | .575-1.031 | 2 | 2 11/32 | 59 | 3 | 76 | 5/8 | 16 | 1/2 | 13 | 2 1/2 | 64 | 1/2 | 4 1/4 | 108 | |
| RAR2-080-E | 2 Sol.-4/0 Str. | .258-.528 | 250-800 MCM | .575-1.031 | 4 | 2 11/32 | 59 | 4 | 102 | 1 1/8 | 29 | 13/32 | 10 | 4 | 102 | 1/2 | 4 1/4 | 108 | |
| RAR2-100-D | 4/0 Str.-550 MCM | .528-.855 | 600-1000 MCM | .893-1.153 | 2 | 3 | 76 | 3 | 76 | 5/8 | 16 | 1/2 | 13 | 2 1/2 | 64 | 1/2 | 4 9/16 | 116 | |
| RAR2-100-E | 4/0 Str.-550 MCM | .528-.855 | 600-1000 MCM | .893-1.153 | 4 | 3 | 76 | 4 | 102 | 1 1/8 | 29 | 1/2 | 13 | 4 | 102 | 1/2 | 4 9/16 | 116 | |
| RAR2-200-D | 500-1000 MCM | .815-1.153 | 1100-2000 MCM | 1.209-1.632 | 2 | 5 1/4 | 133 | 3 | 76 | 5/8 | 16 | 9/16 | 14 | 2 1/2 | 64 | 1/2 | 5 3/8 | 143 | |
| RAR2-200-E | 500-1000 MCM | .815-1.153 | 1100-2000 MCM | 1.209-1.632 | 4 | 5 1/4 | 133 | 4 | 102 | 5/8 | 16 | 1/2 | 13 | 4 | 102 | 1/2 | 5 3/8 | 143 | |

‡For conversion to metric range, see page 175.

BRONZE EYEBOLT TERMINAL • TYPE LS AND LSN

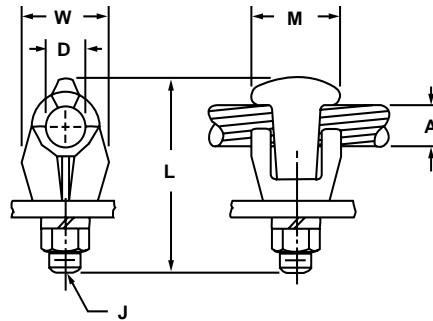
Single eyebolt type for copper cable to copper flat



A practical and highly versatile connector that may be used for numerous applications. Used extensively by all manufacturers who bring out flat studs, bus, or spades on their equipment. Used also for grounding cables to steel substation structures.

Cups (bodies) are made from corrosion resistant, high conductivity copper alloy. Eyebolts are made from a special, aluminum bronze alloy, for maximum strength.

Silicon bronze nuts and lockwashers.



FOR 1/4" THICK BAR

| Catalog Number | A Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | |
|----------------|----------------------|-------------------------|---------------------------------|----|--------------------------------|-----|---------------------------------|----|---------------------------------|----|-------------------------------|
| | | | D | | L | | M | | W | | J |
| | | | in | mm | in | mm | in | mm | in | mm | in |
| LS-C1E | 10 Sol.-1 Str. | .102-.332 | 1 ¹ / ₃₂ | 9 | 2 ³ / ₈ | 60 | 1 ¹ / ₁₆ | 27 | 7 ⁷ / ₈ | 22 | 3 ³ / ₈ |
| LSN-2/0N | 8 Sol.-2/0 Str. | .128-.419 | 7 ⁷ / ₁₆ | 11 | 2 ³ / ₄ | 70 | 1 ³ / ₈ | 35 | 1 | 25 | 1 ¹ / ₂ |
| LS-2/0 | 8 Sol.-2/0 Str. | .128-.419 | 7 ⁷ / ₁₆ | 11 | 2 | 51 | 1 ¹ / ₄ | 32 | 1 | 25 | 3 ³ / ₈ |
| LSN-025N | 6 Sol.-250 MCM | .162-.575 | 5 ⁵ / ₈ | 16 | 2 ⁹ / ₁₆ | 65 | 1 ¹ / ₄ | 32 | 1 ¹ / ₁₆ | 27 | 1 ¹ / ₂ |
| LSN-035N | 2 Sol.-350 MCM | .258-.682 | 1 ³ / ₁₆ | 21 | 3 ¹ / ₁₆ | 78 | 1 ¹ / ₄ | 32 | 1 ⁵ / ₁₆ | 33 | 1 ¹ / ₂ |
| LSN-050N | 1/0 Sol.-500 MCM | .325-.815 | 1 ⁵ / ₁₆ | 24 | 3 ¹ / ₄ | 83 | 1 ¹ / ₄ | 32 | 1 ⁷ / ₁₆ | 37 | 1 ¹ / ₂ |
| LSN-075 | 350-750 MCM | .682-.999 | 1 ¹ / ₁₆ | 27 | 3 ³ / ₁₆ | 81 | 1 ¹ / ₂ | 38 | 1 ¹⁹ / ₃₂ | 40 | 1 ¹ / ₂ |
| LSN-100N | 2/0 Sol.-1000 MCM | .365-1.153 | 1 ¹ / ₄ | 32 | 4 ¹ / ₄ | 108 | 1 ²³ / ₃₂ | 44 | 1 ¹¹ / ₁₆ | 43 | 1 ¹ / ₂ |
| LS-150E | 1000-1500 MCM | 1.153-1.412 | 1 ¹ / ₂ | 38 | 4 ³ / ₈ | 111 | 2 ¹ / ₄ | 57 | 2 ¹ / ₂ | 64 | 1 ¹ / ₂ |
| LS-200E | 500-2000 MCM | .325-1.632 | 1 ²³ / ₃₂ | 44 | 5 ¹ / ₄ | 133 | 2 ¹ / ₄ | 57 | 2 ³ / ₄ | 70 | 1 ¹ / ₂ |

FOR 1/4" TO 3/4" THICK BAR

| | | | | | | | | | | | |
|-----------|-------------------|-------------|---------------------------------|----|---------------------------------|-----|---------------------------------|----|---------------------------------|----|-------------------------------|
| LS-C1E | 10 Sol.-1 Str. | .102-.332 | 1 ¹ / ₃₂ | 9 | 2 ³ / ₈ | 60 | 1 ¹ / ₁₆ | 27 | 7 ⁷ / ₈ | 22 | 3 ³ / ₈ |
| LSN-2/0NE | 8 Sol.-2/0 Str. | .128-.419 | 7 ⁷ / ₁₆ | 11 | 2 ³ / ₄ | 70 | 1 ³ / ₈ | 35 | 1 | 25 | 1 ¹ / ₂ |
| LS-2/0E | 8 Sol.-2/0 Str. | .128-.419 | 7 ⁷ / ₁₆ | 11 | 2 ¹ / ₂ | 64 | 1 ¹ / ₄ | 32 | 1 | 25 | 3 ³ / ₈ |
| LSN-025NE | 6 Sol.-250 MCM | .162-.575 | 5 ⁵ / ₈ | 16 | 3 ¹ / ₁₆ | 78 | 1 ¹ / ₄ | 32 | 1 ¹ / ₁₆ | 27 | 1 ¹ / ₂ |
| LSN-035NE | 2 Sol.-350 MCM | .258-.682 | 1 ³ / ₁₆ | 21 | 3 ⁵ / ₁₆ | 84 | 1 ¹ / ₄ | 32 | 1 ⁵ / ₁₆ | 33 | 1 ¹ / ₂ |
| LSN-050NE | 1/0 Sol.-500 MCM | .325-.815 | 1 ⁵ / ₁₆ | 24 | 3 ³ / ₄ | 95 | 1 ¹ / ₄ | 32 | 1 ⁷ / ₁₆ | 37 | 1 ¹ / ₂ |
| LSN-075E | 350-750 MCM | .682-.999 | 1 ¹ / ₁₆ | 27 | 3 ¹¹ / ₁₆ | 94 | 1 ¹ / ₂ | 38 | 1 ¹⁹ / ₃₂ | 40 | 1 ¹ / ₂ |
| LSN-100NE | 2/0 Sol.-1000 MCM | .365-1.153 | 1 ¹ / ₄ | 32 | 4 ¹ / ₂ | 114 | 1 ²³ / ₃₂ | 44 | 1 ¹¹ / ₁₆ | 43 | 1 ¹ / ₂ |
| LS-150E | 1000-1500 MCM | 1.153-1.412 | 1 ¹ / ₂ | 38 | 4 ³ / ₈ | 111 | 2 ¹ / ₄ | 57 | 2 ¹ / ₂ | 64 | 1 ¹ / ₂ |
| LS-200E | 500-2000 MCM | .325-1.632 | 1 ²³ / ₃₂ | 44 | 5 ¹ / ₄ | 133 | 2 ¹ / ₄ | 57 | 2 ³ / ₄ | 70 | 1 ¹ / ₂ |

‡For conversion to metric range, see page 175.

"N" in prefix qualifies terminal for mounting on NEMA pads.

"N" in suffix qualifies eyebolt opening to NEMA.

BRONZE EYEBOLT TERMINAL • TYPES LD AND LDN

Double eyebolt type for copper cable to copper flat

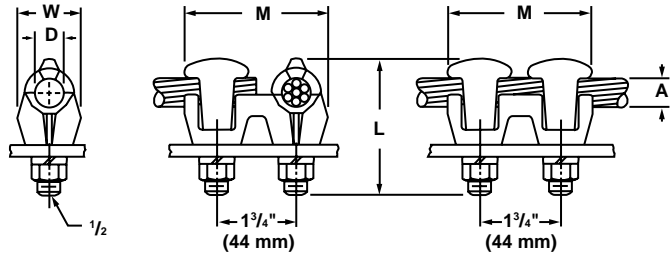


FIG. 1

FIG. 2

FOR 1/4" THICK BAR

| Catalog Number | A Conductor Range | Wire Diameter Range‡ | Fig. No. | Approximate Dimensions | | | | | | | |
|----------------|-------------------|----------------------|----------|---------------------------------|----|---------------------------------|-----|---------------------------------|-----|---------------------------------|----|
| | | | | D | | L | | M | | W | |
| | | | | in | mm | in | mm | in | mm | in | mm |
| LDN-2/0N | 8 Sol.-2/0 Str. | .128- .419 | 2 | 7/16 | 11 | 2 ⁵ / ₁₆ | 59 | 2 ¹³ / ₁₆ | 71 | 2 ⁹ / ₃₂ | 23 |
| LDN-2/0N2 | 8 Sol.-2/0 Str. | .128- .419 | 1 | 7/16 | 11 | 2 ³ / ₈ | 60 | 3 ¹ / ₈ | 79 | 1 ³ / ₈ | 35 |
| LDN-025N | 6 Str.-250 MCM | .184- .575 | 2 | 5/8 | 16 | 2 ⁹ / ₁₆ | 65 | 3 | 76 | 1 ¹ / ₁₆ | 27 |
| LDN-025N2 | 6 Str.-250 MCM | .184- .575 | 1 | 5/8 | 16 | 2 ⁵ / ₈ | 67 | 3 ³ / ₈ | 86 | 1 ⁵ / ₈ | 41 |
| LDN-035N | 2 Sol.-350 MCM | .258- .682 | 2 | 1 ³ / ₁₆ | 21 | 3 ⁵ / ₁₆ | 84 | 3 | 76 | 1 ⁵ / ₁₆ | 33 |
| LDN-050N | 1/0 Sol.-500 MCM | .325- .815 | 2 | 1 ⁵ / ₁₆ | 24 | 3 ¹ / ₄ | 83 | 3 | 76 | 1 ⁷ / ₁₆ | 37 |
| LDN-075 | 350-750 MCM | .682- .999 | 2 | 1 ¹ / ₁₆ | 27 | 3 ³ / ₁₆ | 81 | 3 ¹ / ₄ | 83 | 1 ¹⁹ / ₃₂ | 40 |
| LDN-100N | 2/0 Sol.-1000 MCM | .365-1.153 | 2 | 1 ¹ / ₄ | 32 | 3 ¹³ / ₁₆ | 97 | 3 ⁷ / ₁₆ | 87 | 1 ¹¹ / ₁₆ | 43 |
| LD-200E | 500-2000 MCM | .815-1.632 | 2 | 1 ²³ / ₃₂ | 44 | 5 ¹ / ₄ | 133 | 4 | 102 | 2 ³ / ₄ | 70 |

FOR 1/4" TO 3/4" THICK BAR

| | | | | | | | | | | | |
|------------|-------------------|------------|---|---------------------------------|----|---------------------------------|-----|--------------------------------|-----|---------------------------------|----|
| LDN-2/0N2E | 8 Sol.-2/0 Str. | .128- .419 | 1 | 7/16 | 11 | 2 ⁷ / ₈ | 73 | 3 ¹ / ₈ | 79 | 1 ³ / ₈ | 35 |
| LDN-025NE | 6 Sol.-250 MCM | .162- .575 | 2 | 5/8 | 16 | 3 ¹ / ₁₆ | 78 | 3 | 76 | 1 ¹ / ₁₆ | 27 |
| LDN-025N2E | 6 Sol.-250 MCM | .162- .575 | 1 | 5/8 | 16 | 3 ¹ / ₁₆ | 78 | 3 ³ / ₈ | 86 | 1 ⁵ / ₈ | 41 |
| LDN-035NE | 2 Sol.-350 MCM | .258- .682 | 2 | 1 ³ / ₁₆ | 21 | 3 ⁵ / ₁₆ | 84 | 3 | 76 | 1 ⁵ / ₁₆ | 33 |
| LDN-050NE | 1/0 Sol.-500 MCM | .325- .815 | 2 | 1 ⁵ / ₁₆ | 24 | 3 ³ / ₄ | 95 | 3 | 76 | 1 ⁷ / ₁₆ | 37 |
| LDN-075E | 350-750 MCM | .682- .999 | 2 | 1 ¹ / ₁₆ | 27 | 3 ¹¹ / ₁₆ | 94 | 3 ¹ / ₄ | 83 | 1 ¹⁹ / ₃₂ | 40 |
| LDN-100NE | 2/0 Sol.-1000 MCM | .365-1.153 | 2 | 1 ¹ / ₄ | 32 | 4 ¹ / ₁₆ | 103 | 3 ⁷ / ₁₆ | 87 | 1 ¹¹ / ₁₆ | 43 |
| LD-200E | 500-2000 MCM | .815-1.632 | 2 | 1 ²³ / ₃₂ | 44 | 5 ¹ / ₄ | 133 | 4 | 102 | 2 ³ / ₄ | 70 |

‡For conversion to metric range, see page 175.

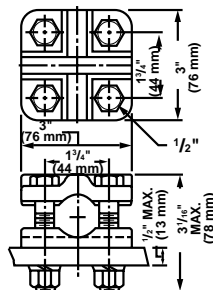
"N" in prefix qualifies terminal for mounting on NEMA pads.

"N" in suffix qualifies eyebolt opening to NEMA.

"2" in suffix indicates two-way cable entrance.

TERMINAL CONNECTOR • TYPE CTB

For cable range or tubing range to flat four hole NEMA mounting

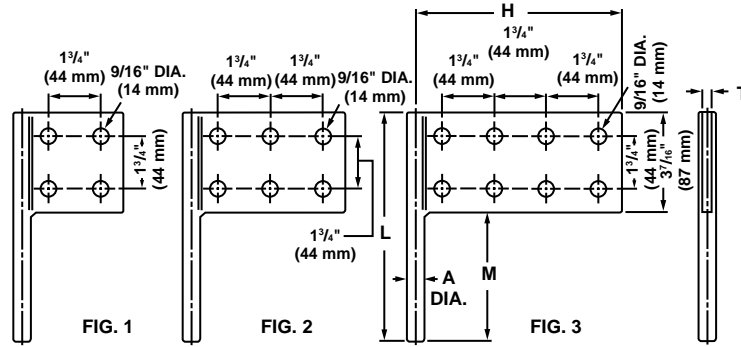


- Cast from copper alloy.
- Reversible, range taking, high strength cap.
- Front or side entrance available by rotating cap 90°.
- Furnished with silicon bronze bolts, nuts and lockwashers.
- Bolts with sufficient length for mounting to a pad up to 1/2" thick.

| Catalog Number | Conductor Range | Wire Diameter Range‡ | IPS Range |
|----------------|-----------------|----------------------|-----------|
| CTB-100 | 6 Sol.-1000 MCM | .162-1.153 | 1/8-3/4 |

‡For conversion to metric range, see page 175.

COPPER TRANSFORMER ADAPTOR TERMINAL • TYPE FT*



Designed for multiple take-off from the transformer eyebolt secondary connector. Cast from copper and electroplated for use with copper or aluminum connectors.

| Catalog Number | Fig. No. | A Stud Diameter | Approximate Dimensions | | | | | | | |
|----------------|----------|-----------------|------------------------|-----|---------|-----|---------|-----|-----|------|
| | | | M | | H | | L | | T | |
| | | | in | mm | in | mm | in | mm | in | mm |
| FT-4-037 | 1 | 3/8 | 1 3/4 | 44 | 3 5/8 | 92 | 5 3/16 | 132 | 1/4 | 6.35 |
| FT-4-056 | 1 | 9/16 | 2 | 51 | 3 3/32 | 79 | 5 7/16 | 138 | 3/8 | 9.52 |
| FT-4-075 | 1 | 3/4 | 2 1/2 | 64 | 3 13/16 | 97 | 5 15/16 | 151 | 3/8 | 9.52 |
| FT-4-087 | 1 | 7/8 | 3 3/4 | 95 | 3 7/8 | 98 | 7 3/16 | 183 | 3/8 | 9.52 |
| FT-4-118 | 1 | 1 3/16 | 4 1/4 | 108 | 4 1/16 | 103 | 7 11/16 | 195 | 3/8 | 9.52 |
| FT-6-037 | 2 | 3/8 | 1 3/4 | 44 | 5 3/8 | 137 | 5 3/16 | 132 | 1/4 | 6.35 |
| FT-6-056 | 2 | 9/16 | 2 | 51 | 5 15/32 | 139 | 5 7/16 | 138 | 3/8 | 9.52 |
| FT-6-075 | 2 | 3/4 | 2 1/2 | 64 | 5 9/16 | 141 | 5 15/16 | 151 | 3/8 | 9.52 |
| FT-6-087 | 2 | 7/8 | 3 3/4 | 95 | 5 5/8 | 143 | 7 3/16 | 183 | 3/8 | 9.52 |
| FT-6-118 | 2 | 1 3/16 | 4 1/4 | 108 | 5 13/16 | 148 | 7 11/16 | 195 | 3/8 | 9.52 |
| FT-8-037 | 3 | 3/8 | 1 3/4 | 44 | 7 1/8 | 181 | 5 3/16 | 132 | 1/4 | 6.35 |
| FT-8-056 | 3 | 9/16 | 2 | 51 | 7 7/32 | 183 | 5 7/16 | 138 | 3/8 | 9.52 |
| FT-8-075 | 3 | 3/4 | 2 1/2 | 64 | 7 5/16 | 186 | 5 15/16 | 151 | 3/8 | 9.52 |
| FT-8-087 | 3 | 7/8 | 3 3/4 | 95 | 7 3/8 | 187 | 7 3/16 | 183 | 3/8 | 9.52 |
| FT-8-118 | 3 | 1 3/16 | 4 1/4 | 108 | 7 9/16 | 192 | 7 11/16 | 195 | 3/8 | 9.52 |

*We recommend using Penn-Union Cual-Aid, an oxide inhibiting compound with these connectors. When connecting aluminum or ACSR wire, wire brush the conductor with Cual-Aid #11.

BRONZE GROUND ROD CLAMPS • TYPES CAB & CEB



UL US
467 LISTED
SUITABLE FOR
DIRECT BURIAL

RUS
ACCEPTED

Made from corrosion resistant cast aluminum bronze. Furnished with silicon bronze hexagon head bolt. Socket head screws can be furnished by suffixing catalog number with "-S". For example: CAB-4-S.

Type CEB is an economical ground rod clamp made from corrosion resistant cast aluminum bronze. Furnished with silicon bronze hexagon head bolt.

HEAVY DUTY CLAMP

| Catalog Number | Accommodates Rod Size | Conductor Range | Wire Diameter Range† |
|----------------|-----------------------|-----------------|----------------------|
| | in | | in |
| CAB-1M | 1/2 | 10 Sol.-2 Str. | .102-.292 |
| CAB-2M* | 5/8 | 8 Sol.-1/0 Str. | .128-.375 |
| CAB-3M | 3/4 | 8 Sol.-1/0 Str. | .128-.375 |

STANDARD CLAMP

| | | | |
|-------|-----|-----------------|-----------|
| CAB-0 | 3/8 | 14 Sol.-6 Str. | .064-.184 |
| CAB-1 | 1/2 | 10 Sol.-2 Str. | .102-.292 |
| CAB-2 | 5/8 | 8 Sol.-1/0 Str. | .128-.375 |
| CAB-3 | 3/4 | 8 Sol.-1/0 Str. | .128-.375 |
| CAB-4 | 3/4 | 4/0 Str. | .528 |
| CAB-5 | 1 | 8 Sol.-1/0 Str. | .128-.375 |
| CAB-6 | 1 | 4/0 Str. | .528 |

ECONOMY CLAMP

| Catalog Number | Accommodates Rod Size | Conductor Range | Wire Diameter Range† |
|----------------|-----------------------|-----------------|----------------------|
| | in | | in |
| CEB-1† | 1/2 | 8 Sol.-2 Str. | .128-.292 |
| CEB-2† | 5/8 | 8 Sol.-2 Str. | .128-.292 |
| CEB-3* | 3/4 | 8 Sol.-2 Str. | .128-.292 |

†For conversion to metric range, see page 175.

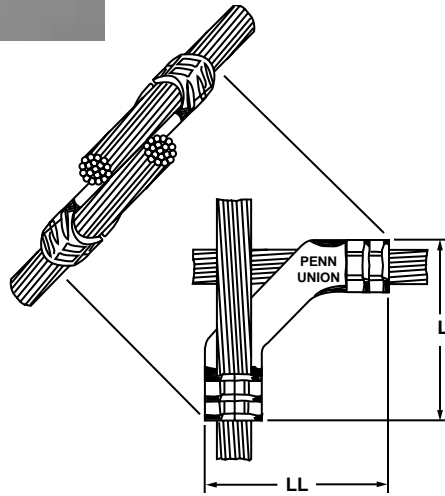
†RUS accepted plain and tin plated.

*RUS accepted tin plated only.

For tin plating, suffix catalog number with "-TN".

* For 1/2 thread bolt and extra long body use CAB 2ML.

COPPER GROUND GRID CONNECTOR • TYPE GGCP



Provides a compression connector for installing a ground grid system in wire sizes from #2 to 750 MCM; it is ideal for installations like generating stations, substations, chemical plants and heavy industrial plants, where fault-current surges must be dissipated quickly and safely.

High-conductivity cast copper.

Faster and safer to install than exothermic welding connections.

Easier to install than similar compression ground grid connectors which require bending of grid wires to install the connector between them.

Installed with standard T & B tools and dies.

EASY TO INSPECT—Easy to inspect for proper installation. Die imprints die number which must correspond to recommendation cast into connector web.

LOW RESISTANCE CONNECTION—Compression joint provides a conducting path of less resistance than an equivalent length of the installed conductor.

UNIQUE DESIGN—Connector installation does not disturb the position of the grid wires.

Can be used in cross-over or tap applications.

Can be imbedded in concrete or used in direct burial systems.

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Conductor Range | Wire Diameter Range‡ | Installation | | | | | | | | | Approximate Dimensions | | | |
|----------------|-------------------|----------------------|-------------------|----------------------|------------------|-------------|------------|--------|-------|------------|---------|----------|------------|------------------------|-----|--------|-----|
| | | | | | T&B | | | Burndy | | | Kearney | | | L | | LL | |
| | | | | | Tool | Die | No. Crimps | Tool | Index | No. Crimps | Tool | Die | No. Crimps | In | mm | In | mm |
| GGCP-1 | 2 Str.-1 Str. | .292-.332 | 2 Str.-1 Str. | .292-.332 | 15 Ton 40 Ton | 54H 54 | 2 1 | Y35+ | BG | 1 | WH-1 | 5/8-1 | 2 | 27/16 | 62 | 27/16 | 62 |
| GGCP-2/0 | 1/0 Str.-2/0 Str. | .375-.419 | 1/0 Str.-2/0 Str. | .375-.419 | 15 Ton 40 Ton | 66 | 1 | Y45L | 251 | 1 | PH-4 | K-3/4 | 1 | 35/8 | 92 | 35/8 | 92 |
| GGCP-025-2/0 | 4/0 Sol.-.250 MCM | .460-.575 | 1/0 Str.-2/0 Str. | .375-.419 | 15 Ton 40 Ton | 87H 87 | 2 1 | Y45L | 299 | 1 | PH-4 | K-1-2 | 1 | 321/32 | 93 | 321/32 | 93 |
| GGCP-025 | 4/0 Sol.-.250 MCM | .460-.575 | 4/0 Sol.-.250 MCM | .460-.575 | 15 Ton 40 Ton | 87H 87 | 2 1 | Y45L | 299 | 1 | PH-4 | K-1-2 | 1 | 321/32 | 93 | 321/32 | 93 |
| GGCP-050-025 | 500 MCM | .815 | 4/0 Sol.-.250 MCM | .460-.575 | 15 Ton 40 Ton | 115H 115 | 2 1 | Y45L | 936 | 2 | PH-4 | K-15/16H | 2 | 45/16 | 110 | 47/16 | 113 |
| GGCP-050 | 500 MCM | .815 | 500 MCM | .815 | 15 Ton 40 Ton | 115H 115 | 2 1 | Y45L | 936 | 2 | PH-4 | K-15/16H | 2 | 41/2 | 114 | 41/2 | 114 |
| GGCP-075-025 | 750 MCM | .990 | 4/0 Str.-.250 MCM | .528-.575 | 40 Ton | 150 | 1 | Y488H | 352 | 1 | PH-4 | K-11/2H | 2 | 45/8 | 117 | 59/32 | 134 |
| GGCP-075-050 | 750 MCM | .990 | 500 MCM | .815 | 40 Ton | 150 | 1 | Y488BH | 352 | 1 | PH-4 | K-11/2H | 2 | 59/32 | 134 | 59/32 | 134 |
| GGCP-075 | 750 MCM | .990 | 750 MCM | .990 | 40 Ton | 150 | 1 | Y488BH | 352 | 1 | PH-4 | K-11/2H | 2 | 51/2 | 140 | 51/2 | 140 |

Type GGCP-2U (Both U-Shaped elements facing in same direction)

| | | | | | | | | | | | | | | | | | |
|-------------|----------|------|----------|------|------------------|-----------|--------|------|-----|---|------|-------|---|--------|----|--------|----|
| GGCP-2U-4/0 | 4/0 Str. | .528 | 4/0 Str. | .528 | 15 Ton 40 Ton | 87H 87 | 2 1 | Y45L | 299 | 1 | PH-4 | K-1-2 | 1 | 343/64 | 93 | 343/64 | 93 |
| GGCP-2U-025 | 250 MCM | .575 | 250 MCM | .575 | 15 Ton 40 Ton | 87H 87 | 2 1 | Y45L | 299 | 1 | PH-4 | K-1-2 | 1 | 321/32 | 93 | 321/32 | 93 |

Type GGCP - GR (Special Design for use with Ground Rod)

| | | | | | | | | | | | | | | | | | |
|---------------|-------------------|-----------|-------------|------|------------------|-----------|--------|------|-----|---|------|-------|---|--------|--------|-------|-------|
| GGCP-0255/8GR | 4/0 Sol.-.250 MCM | .528-.575 | 5/8 GR. ROD | .562 | 15 Ton 40 Ton | 87H 87 | 2 1 | Y45L | 299 | 1 | PH-4 | K-1-2 | 1 | 31/8 | 79 | 31/8 | 79 |
| GGCP-2/05/8GR | 1/0 Str.-2/0 Str. | .375-.419 | | | 15 Ton 40 Ton | 87H 87 | 2 1 | Y45L | 299 | 1 | PH-4 | K-1-2 | 1 | 31/8 | 79 | 31/8 | 79 |
| GGCP-0253/4GR | 4/0 Sol.-.250 MCM | .528-.575 | 3/4 GR. ROD | .683 | 15 Ton 40 Ton | | 2 1 | - | - | - | - | - | - | 419/64 | 109 | 47/16 | 113 |
| GGCP-2/03/4GR | 1/0 Str.-2/0 Str. | .375-.419 | | | 15 Ton 40 Ton | | 2 1 | - | - | - | - | - | - | - | 419/64 | 109 | 47/16 |

‡For conversion to metric range, see page 175.

+Penn-Union's TPU-12B hydraulic hand tool can be used in place of Burndy's Y35.

BRONZE GROUND CLAMPS • TYPES KP, KP-DB, KW, KH & KL

For bonding ground wires to water pipe

Cast from high strength electrical bronze. Furnished with high strength plated steel hardware.



467 LISTED

TYPE KP

For bonding bare copper wire to water pipe or for use as water meter shunt.



KP

| Catalog Number | Water Pipe Range | Conductor Range of Tap | Wire Diameter Range‡ |
|----------------|------------------|------------------------|----------------------|
| | in | | in |
| KP-1 | 1/2-1 | 10 Sol.-2 Str. | .102-.292 |
| KP-2 | 1 1/4-2 | 10 Sol.-2 Str. | .102-.292 |
| KP-4* | 2 1/2-4 | 10 Sol.-1/0 Sol. | .102-.325 |

* Not UL or CSA



467 LISTED SUITABLE FOR DIRECT BURIAL

TYPE KP-DB

For bonding bare copper wire to water pipe or rebar for burial in earth or concrete.



KW

| Catalog Number | Water Pipe Range | Rebar Number | Conductor Range of Tap | Wire Diameter Range‡ |
|----------------|------------------|--------------|------------------------|----------------------|
| | in | | | in |
| KP-1-DB | 1/2-1 | 4-6 | 10 Sol.-2 Str. | .102-.292 |
| KP-2-DB | 1 1/4-2 | — | 10 Sol.-2 Str. | .102-.292 |

TYPE KW

For bonding bare armored or unarmored ground wire, also used with cables or cord. Clamp provides positive grip on armor or outer cable.



KH

| Catalog Number | Water Pipe Range | Conductor Range of Tap | Wire Diameter Range‡ |
|----------------|------------------|------------------------|----------------------|
| | in | | in |
| KW-1 | 1/2-1 | 10 Sol.-6 Sol. | .102-.162 |
| KW-2 | 1 1/4-2 | 10 Sol.-6 Sol. | .102-.162 |
| KW-4 | 2 1/2-4 | 10 Sol.-1/0 Sol. | .102-.325 |

TYPE KH

For use with rigid conduit. Washer provides complete protection for wire.



KH

| Catalog Number | Conduit Hub Size | Water Pipe Range | Conductor Range of Tap | Wire Diameter Range‡ |
|----------------|------------------|------------------|------------------------|----------------------|
| | in | in | | in |
| KH-1 | 1/2 | 1/2-1 | 10 Sol.-4 Str. | .102-.232 |
| KH-2 | 1/2 | 1 1/4-2 | 10 Sol.-4 Str. | .102-.232 |
| KH-4 | 1/2 | 2 1/4-4 | 10 Sol.-1/0 Sol. | .102-.325 |

TYPE KL

For use with rigid conduit. Clamp provides a positive grip on wire. Ground fittings should be attached to water pipe ahead of water meter.



KL

| Catalog Number | Conduit Hub Size | Water Pipe Range | Conductor Range of Tap | Wire Diameter Range‡ |
|----------------|------------------|------------------|------------------------|----------------------|
| | in | in | | in |
| KL-1 | 3/4 | 1/2-1 | 10 Sol.-2/0 Str. | .102-.419 |
| KL-2 | 3/4 | 1 1/4-2 | 10 Sol.-2/0 Str. | .102-.419 |
| KL-4 | 3/4 | 2 1/2-4 | 10 Sol.-2/0 Str. | .102-.419 |
| KL-1A | 1 | 1/2-1 | 10 Sol.-2/0 Str. | .102-.419 |
| KL-2A | 1 | 1 1/4-2 | 10 Sol.-2/0 Str. | .102-.419 |
| KL-4A | 1 | 2 1/2-4 | 10 Sol.-2/0 Str. | .102-.419 |

‡For conversion to metric range, see page 175.

BRONZE GROUND CLAMPS • TYPE KLS

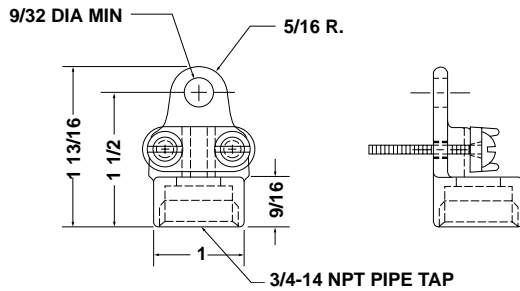


- Cast from high strength electrical bronze.
- Furnished with 3/4" width x .050" thick x 6 7/8" length pure copper contact strip.
- Steel plated hardware.
- Includes clamps and conduit hubs.

| Catalog Number | Conduit Hub Size | Water Pipe Range | Conductor Range of Tap | Wire Diameter Range‡ |
|----------------|------------------|------------------|------------------------|----------------------|
| | in | in | | in |
| KLS-0 | 1/2 | 1/2-1 | 10 Sol.-2/0 Str. | .102-.419 |
| KLS-1 | 3/4 | 1/2-1 | 10 Sol. 2/0 Str. | .102-.419 |
| KLS-2 | 3/4 | 1 1/4-2 | 10 Sol.-2/0 Str. | .102-.419 |
| KLS-4 | 3/4 | 2 1/2-4 | 10 Sol.-2/0 Str. | .102-.419 |
| KLS-1A | 1 | 1/2-1 | 10 Sol.-2/0 Str. | .102-.419 |
| KLS-2A | 1 | 1 1/4-2 | 10 Sol.-2/0 Str. | .102-.419 |
| KLS-4A | 1 | 2 1/2-4 | 10 Sol.-2/0 Str. | .102-.419 |

‡For conversion to metric range, see page 175.

BRONZE CONDUIT HUBS • TYPE KCH



- Cast from high strength electrical bronze.
- Steel plated hardware.
- Can be used with Type KP water pipe clamp.

| Catalog Number | Conduit Size | Conductor Range of Tap | Wire Diameter Range‡ |
|----------------|--------------|------------------------|----------------------|
| | in | | in |
| KCH-12 | 1/2 | 10 Sol. - 6 Sol. | .102-.162 |
| KCH-34 | 3/4 | 10 Sol. - 2/0 Str. | .102-.419 |
| KCH-1 | 1 | 10 Sol. - 3/0 Str. | .102-.470 |

‡For conversion to metric range, see page 175.

ALUMINUM GROUND CLAMP • TYPE GC



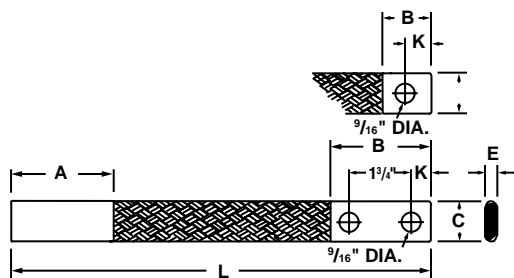
Manufactured from high strength aluminum alloy. For use on water pipe or steel conduit. Can be reversed to accept smaller diameter ground rods. Tin plated for low contact resistance, and corrosion protection. Dual rated for copper or aluminum wire.

| Catalog Number | Water Pipe Range in | Conductor Range of Tap | Wire Diameter Range‡ in |
|----------------|---------------------|------------------------|-------------------------|
| GC-1 | 1/2-1 | 14 Sol.-1/0 Str. | .064-.373 |
| GC-2 | 1 1/4-2 | 6 Sol.-250 MCM | .162-.575 |
| GC-4 | 2 1/2-4 | 6 Sol.-250 MCM | .162-.575 |

‡For conversion to metric range, see page 175.

COPPER GROUND FLEXIBLE BRAID • TYPE GFXB

Tin plated flexible lead



Highly flexible leads suitable for use wherever it is necessary to take up expansion. Made of flat, extra flexible, tinned, pure copper, with tin plated, seamless, pure copper ferrules cold pressed on each end. Inside ends of ferrules are rounded to prevent chafing of strands.

Sizes and combinations not shown readily supplied. Special drilling can be supplied on request. Refer to factory if different ferrule dimensions are desired. For lengths other than 24" change catalog number suffix accordingly.

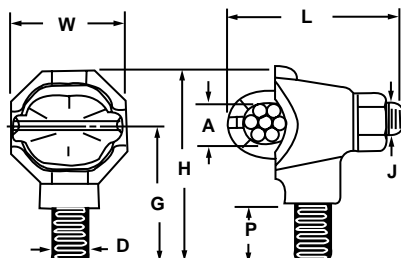
| Catalog Number | Ampere Ratings* | Circular Mils. of Braids | Fig. No. | Approximate Dimensions | | | | | | | | | | | |
|----------------|-----------------|--------------------------|----------|------------------------|----|-------|----|-------|----|------|----|-----|----|----|-----|
| | | | | A | | B | | C | | E | | K | | L | |
| | | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm |
| GFXBA-24-S1 | 200 | 77,184 | 1 | 2 | 51 | 1 1/2 | 38 | 1 | 25 | 5/32 | 4 | 3/4 | 19 | 24 | 610 |
| GFXBA-24-D1 | 200 | 77,184 | 2 | 2 | 51 | 3 | 76 | 1 | 25 | 5/32 | 4 | 5/8 | 16 | 24 | 610 |
| GFXBC-24-S1 | 350 | 168,840 | 1 | 2 | 51 | 1 1/2 | 38 | 1 1/2 | 38 | 3/16 | 5 | 3/4 | 19 | 24 | 610 |
| GFXBC-24-D1 | 350 | 168,840 | 2 | 2 | 51 | 3 | 76 | 1 1/2 | 38 | 3/16 | 5 | 5/8 | 16 | 24 | 610 |
| GFXBC-24-S | 350 | 168,840 | 1 | 3 | 76 | 1 1/2 | 38 | 1 1/2 | 38 | 3/16 | 5 | 3/4 | 19 | 24 | 610 |
| GFXBC-24-D | 350 | 168,840 | 2 | 3 | 76 | 3 | 76 | 1 1/2 | 38 | 3/16 | 5 | 5/8 | 16 | 24 | 610 |

*Ampere ratings are suggested for use as a guide only. Actual values used for a given application will depend on such factors as permissible temperature rise, permissible voltage drop, number of cables together and other conditions of service. For outdoor use, these ratings may be increased from 22% to 40% depending upon the size and position of the bus bars being joined.

TRANSFORMER GROUND CLAMPS • TYPES GSE AND HGSE



Eye bolt style



Bodies are cast from high conductivity, high strength copper alloy with cast high strength bronze eyebolts. Steel nuts and lockwashers are standard on all clamps. For silicon bronze hardware, suffix catalog number with "-SBH." Example: GSE-C1-SBH. The HGSE provides a hex or square shoulder for wrench tightening. Its flat surface also acts as a seal to the tank. The GSE may be tightened by using a wrench on the body.

| Catalog Number | A Copper Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | | |
|----------------|--------------------------|----------------------|------------------------|---------|----|---------|----|----------------|---------|----|-------|----|-------|----|
| | | | D Stud Size | G | | H | | J (Eyebolt) in | L | | P | | W | |
| | | | | in | mm | in | mm | | in | mm | in | mm | in | mm |
| GSE-C1† | 10 Sol.-1 Str. | .102-.332 | 1/2-13 | 13/16 | 21 | 1 1/4 | 32 | 3/8-16 | 1 1/2 | 38 | 7/16 | 11 | 7/8 | 22 |
| GSE-020 | 8 Sol.-2/0 Str. | .128-.419 | 1/2-13 | 1 | 25 | 1 7/16 | 37 | 3/8-16 | 1 31/32 | 50 | 7/16 | 11 | 7/8 | 22 |
| GSE-025 | 6 Sol.-250 MCM | .162-.575 | 1/2-13 | 1 11/16 | 43 | 1 15/16 | 49 | 1/2-13 | 2 9/16 | 65 | 5/16 | 8 | 1 1/4 | 32 |
| HGSE-C1* | 10 Sol.-1 Str. | .102-.332 | 1/2-13 | 1 3/16 | 30 | 1 3/4 | 44 | 3/8-16 | 1 31/32 | 50 | 7/16 | 11 | 1 1/8 | 28 |
| HGSE-020* | 8 Sol.-2/0 Str. | .128-.419 | 1/2-13 | 1 5/16 | 33 | 1 15/16 | 49 | 3/8-16 | 2 | 51 | 7/16 | 11 | 1 1/4 | 32 |
| HGSE-250* | 6 Sol.-250 MCM | .162-.575 | 1/2-13 | 1 3/16 | 30 | 2 1/8 | 54 | 1/2-13 | 2 5/8 | 67 | 15/32 | 12 | 1 7/8 | 48 |

‡For conversion to metric range, see page 175.

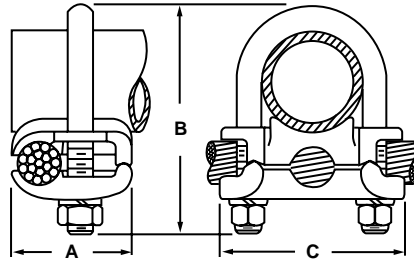
*Designates two-way basket.

†For tin plating, suffix catalog number with "-TN." Example: GSE-C1-TN.

‡RUS accepted plain and tin plated.

BRONZE GROUND CLAMP CONNECTOR • TYPE GPL

Universal parallel or 90° cable connection to rod or pipe



Made from high copper content alloy. Furnished with silicon bronze bolt, nuts and lockwashers.

| Catalog Number | Accommodates | | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | |
|----------------|--------------|------------|------------------|----------------------|------------------------|----|-------|-----|-------|-----|------------|
| | Rod | IPS | | | A | | B | | C | | Bolt Dia.† |
| | | | | in | in | mm | in | mm | in | mm | |
| GPL-1 * | 1/2 | 1/4 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 2 1/2 | 64 | 1 7/8 | 47 | 3/8 |
| GPL-2 * | 1/2 | 1/4 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 2 1/2 | 64 | 1 7/8 | 47 | 3/8 |
| GPL-3 * | 1/2 | 1/4 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 2 1/2 | 64 | 1 7/8 | 47 | 3/8 |
| GPL-4 | 5/8 or 3/4 | 3/8 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 2 3/4 | 70 | 2 | 51 | 3/8 |
| GPL-5 | 5/8 or 3/4 | 3/8 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 2 3/4 | 70 | 2 | 51 | 3/8 |
| GPL-6 | 5/8 or 3/4 | 3/8 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 2 3/4 | 70 | 2 | 51 | 3/8 |
| GPL-7 • | 5/8 or 1 | 3/8 or 3/4 | 300-500 MCM | .634- .815 | 2 1/4 | 57 | 3 1/2 | 89 | 2 3/8 | 60 | 1/2 |
| GPL-8 | 7/8 or 1 | 1/2 or 3/4 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 2 5/8 | 67 | 2 3/8 | 60 | 3/8 |
| GPL-9 | 7/8 or 1 | 1/2 or 3/4 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 2 5/8 | 67 | 2 3/8 | 60 | 3/8 |
| GPL-10 | 7/8 or 1 | 1/2 or 3/4 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 3 | 76 | 2 3/8 | 60 | 3/8 |
| GPL-12 • | 7/8 or 1 | 1/2 or 3/4 | 500-750 MCM | .815- .999 | 2 5/8 | 67 | 3 3/4 | 95 | 2 3/4 | 70 | 1/2 |
| GPL-13 • | 7/8 or 1 | 1/2 or 3/4 | 750-1000 MCM | .999-1.153 | 3 | 76 | 4 | 102 | 3 1/2 | 89 | 1/2 |
| GPL-14 | — | 1 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 2 3/4 | 70 | 2 5/8 | 67 | 3/8 |
| GPL-15 | — | 1 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 2 3/4 | 70 | 2 5/8 | 67 | 3/8 |
| GPL-16 | — | 1 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 3 1/4 | 82 | 2 5/8 | 67 | 3/8 |
| GPL-17 • | — | 1 | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 4 1/2 | 115 | 3 | 76 | 1/2 |
| GPL-18 • | — | 1 | 500-750 MCM | .815- .999 | 2 5/8 | 67 | 4 1/2 | 115 | 3 | 76 | 1/2 |
| GPL-19 • | — | 1 | 750-1000 MCM | .999-1.153 | 3 | 76 | 4 3/4 | 121 | 3 1/2 | 89 | 1/2 |
| GPL-20 | — | 1 1/4 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 3 1/2 | 89 | 3 | 76 | 3/8 |
| GPL-21 | — | 1 1/4 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 3 1/2 | 89 | 3 | 76 | 3/8 |
| GPL-22 | — | 1 1/4 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 3 1/2 | 89 | 3 | 76 | 3/8 |
| GPL-23 • | — | 1 1/4 | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 4 1/4 | 108 | 3 3/8 | 85 | 1/2 |
| GPL-24 • | — | 1 1/4 | 500-750 MCM | .815- .999 | 2 3/4 | 70 | 5 | 127 | 3 3/4 | 95 | 1/2 |
| GPL-25 • | — | 1 1/4 | 750-1000 MCM | .999-1.153 | 3 | 76 | 5 1/2 | 140 | 4 1/4 | 108 | 1/2 |
| GPL-26 | — | 1 1/2 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 4 | 102 | 3 1/4 | 82 | 3/8 |
| GPL-27 | — | 1 1/2 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 4 | 102 | 3 1/4 | 82 | 3/8 |
| GPL-28 | — | 1 1/2 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 4 | 102 | 3 1/4 | 82 | 3/8 |
| GPL-29 • | — | 1 1/2 | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 4 5/8 | 118 | 3 5/8 | 92 | 1/2 |
| GPL-30 • | — | 1 1/2 | 500-750 MCM | .815- .999 | 2 3/4 | 70 | 5 1/4 | 133 | 4 | 102 | 1/2 |
| GPL-31 • | — | 1 1/2 | 750-1000 MCM | .999-1.153 | 3 | 76 | 5 3/4 | 146 | 4 1/2 | 115 | 1/2 |
| GPL-32 | — | 2 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 4 1/4 | 108 | 3 3/4 | 95 | 3/8 |
| GPL-33 | — | 2 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 4 1/4 | 108 | 3 3/4 | 95 | 3/8 |
| GPL-34 | — | 2 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 4 1/4 | 108 | 3 3/4 | 95 | 3/8 |
| GPL-35 • | — | 2 | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 5 1/4 | 133 | 4 | 102 | 1/2 |
| GPL-36 • | — | 2 | 500-750 MCM | .815- .999 | 2 3/4 | 70 | 5 1/2 | 140 | 4 1/2 | 115 | 1/2 |
| GPL-37 • | — | 2 | 750-1000 MCM | .999-1.153 | 3 | 76 | 6 | 152 | 5 | 127 | 1/2 |

‡For conversion to metric range, see page 175.

•UL listing is limited to a maximum wire size of 250 MCM.

*Not UL listed for 1/4" Pipe.

†3/8" U-Bolt threaded as shown above, add suffix "FT" for full thread. 1/2" U-Bolt standard is full thread.

Chart continued next page

BRONZE GROUND CLAMP CONNECTOR • TYPE GPL

Continued from preceding page

| Catalog Number | Accommodates | | Conductor Range | Wire Diameter Range ‡ | Approximate Dimensions | | | | | | |
|----------------|--------------|-------|------------------|-----------------------|------------------------|----|--------|-----|---------|-----|-------------|
| | Rod | IPS | | | A | | B | | C | | Bolt Dia. † |
| | | | | in | in | mm | in | mm | in | mm | |
| GPL-38 | — | 2 1/2 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 5 | 127 | 4 1/4 | 108 | 3/8 |
| GPL-39 | — | 2 1/2 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 5 | 127 | 4 1/4 | 108 | 3/8 |
| GPL-40 | — | 2 1/2 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 5 | 127 | 4 1/4 | 108 | 3/8 |
| GPL-41• | — | 2 1/2 | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 5 5/8 | 143 | 4 1/2 | 115 | 1/2 |
| GPL-42• | — | 2 1/2 | 500-750 MCM | .815- .999 | 2 3/4 | 70 | 6 | 152 | 5 | 127 | 1/2 |
| GPL-43• | — | 2 1/2 | 750-1000 MCM | .999-1.153 | 3 | 76 | 6 1/2 | 165 | 5 1/2 | 140 | 1/2 |
| GPL-44 | — | 3 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 5 1/2 | 140 | 4 3/4 | 121 | 3/8 |
| GPL-45 | — | 3 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 5 1/2 | 140 | 4 3/4 | 121 | 3/8 |
| GPL-46 | — | 3 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 5 1/2 | 140 | 4 3/4 | 121 | 3/8 |
| GPL-47• | — | 3 | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 6 1/4 | 158 | 5 1/4 | 133 | 1/2 |
| GPL-48• | — | 3 | 500-750 MCM | .815- .999 | 2 3/4 | 70 | 6 3/4 | 171 | 5 1/2 | 140 | 1/2 |
| GPL-49• | — | 3 | 750-1000 MCM | .999-1.153 | 3 | 76 | 7 1/4 | 184 | 6 | 152 | 1/2 |
| GPL-50 | — | 3 1/2 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 6 1/4 | 158 | 5 1/4 | 133 | 3/8 |
| GPL-51 | — | 3 1/2 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 6 1/4 | 158 | 5 1/4 | 133 | 3/8 |
| GPL-52 | — | 3 1/2 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 6 1/4 | 158 | 5 1/4 | 133 | 3/8 |
| GPL-53• | — | 3 1/2 | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 6 3/4 | 171 | 5 3/4 | 146 | 1/2 |
| GPL-54• | — | 3 1/2 | 500-750 MCM | .815- .999 | 2 3/4 | 70 | 7 1/2 | 191 | 6 | 152 | 1/2 |
| GPL-55• | — | 3 1/2 | 750-1000 MCM | .999-1.153 | 3 | 76 | 8 | 203 | 6 1/2 | 165 | 1/2 |
| GPL-56 | — | 4 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 6 3/8 | 161 | 5 3/4 | 146 | 3/8 |
| GPL-57 | — | 4 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 6 3/8 | 161 | 5 3/4 | 146 | 3/8 |
| GPL-58 | — | 4 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 6 3/8 | 161 | 5 3/4 | 146 | 3/8 |
| GPL-59• | — | 4 | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 6 3/4 | 171 | 6 1/4 | 158 | 1/2 |
| GPL-60• | — | 4 | 500-750 MCM | .815- .999 | 2 3/4 | 70 | 8 | 203 | 6 1/2 | 165 | 1/2 |
| GPL-61• | — | 4 | 750-1000 MCM | .999-1.153 | 3 | 76 | 8 1/2 | 216 | 7 | 178 | 1/2 |
| GPL-68 | — | 5 | 8 Sol.-4 Str. | .128- .232 | 1 3/8 | 34 | 6 3/8 | 161 | 6 3/4 | 171 | 3/8 |
| GPL-69 | — | 5 | 4 Sol.-2/0 Str. | .204- .419 | 1 7/32 | 38 | 5 5/8 | 143 | 6 13/16 | 173 | 3/8 |
| GPL-70 | — | 5 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 6 1/8 | 155 | 6 13/16 | 173 | 3/8 |
| GPL-71• | — | 5 | 300-500 MCM | .634- .815 | 2 5/16 | 59 | 6 1/8 | 155 | 7 1/8 | 181 | 1/2 |
| GPL-75 | — | 6 | 4 Sol.-2/0 Str. | .204- .419 | 1 17/32 | 38 | 5 7/8 | 149 | 7 7/8 | 200 | 3/8 |
| GPL-76 | — | 6 | 2/0 Sol.-250 MCM | .365- .575 | 1 7/8 | 47 | 7 1/8 | 181 | 7 13/16 | 199 | 3/8 |
| GPL-77• | — | 6 | 300-500 MCM | .634- .815 | 2 5/16 | 59 | 6 3/16 | 157 | 8 3/16 | 208 | 1/2 |
| GPL-87 | — | 8 | 4 Sol. 2/0 Str. | .204- .419 | 1 17/32 | 38 | 7 1/8 | 181 | 9 7/8 | 251 | 3/8 |

†For conversion to metric range, see page 175.

•UL listing is limited to a maximum wire size of 250 MCM by UL467.

‡3/8" U-Bolt threaded as shown above, add suffix "FT" for full thread. 1/2" U-Bolt standard is full thread.

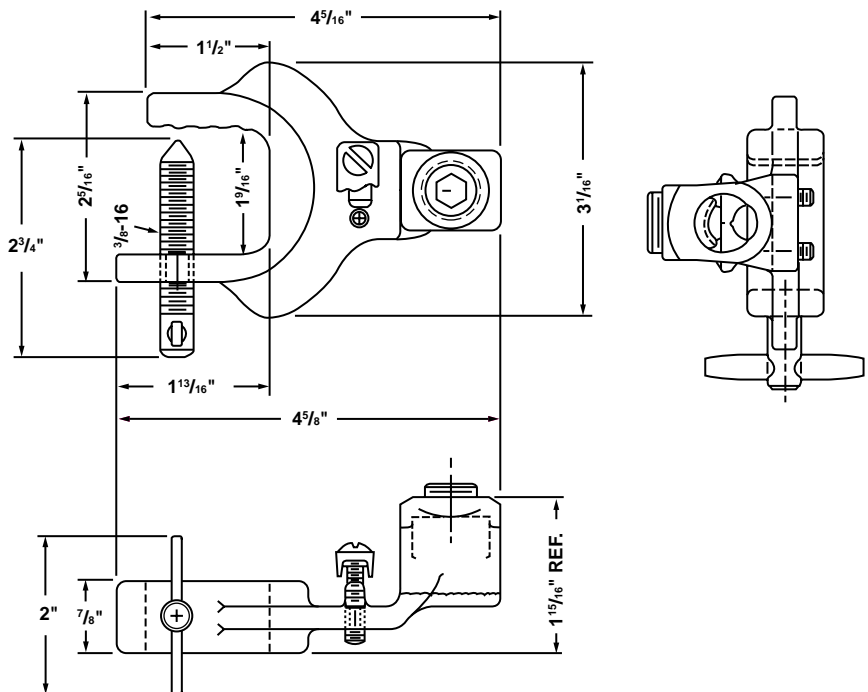
CAST COPPER TANKER STATIC GROUND CLAMPS • CATALOG NO. TSGC-030

For #6 – #2 conductor



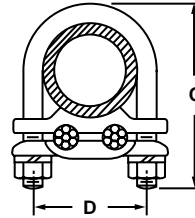
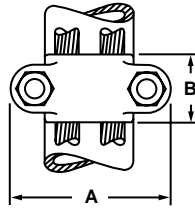
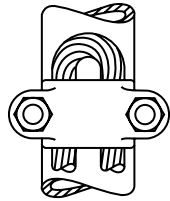
Made of high strength cast copper alloy. Ribs provide multiple contact with the tank car. Clamp is secured to the vehicle by means of a low carbon steel, case hardened, wing screw designed to lock and penetrate the vehicle surface to insure a positive contact with the tanker or tank car.

Designed to accommodate flexible rubber sheath cable ranging from #6-#2 conductor.



BRONZE GROUND CLAMP CONNECTOR • TYPE GU

For clamping two cables or a looped cable or wire to pipe



Made from high copper content alloy. Furnished with silicon bronze bolt, nuts and lockwashers.

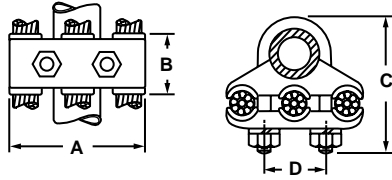
| Catalog Number | IPS | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | Bolt Dia.† |
|----------------|-------|------------------|----------------------|------------------------|-----|-------|----|-------|-----|---------|-----|------------|
| | | | | A | | B | | C | | D | | |
| | | | in | in | mm | in | mm | in | mm | in | mm | |
| GU-0 | 3/4 | 8 Sol.-4 Str. | .128-.232 | 2 1/2 | 64 | 7/8 | 22 | 2 5/8 | 67 | 1 1/2 | 38 | 3/8 |
| GU-00 | 3/4 | 4 Sol.-2/0 Str. | .204-.419 | 2 1/2 | 64 | 7/8 | 22 | 2 5/8 | 67 | 1 1/2 | 38 | 3/8 |
| GU-1 | 1 | 8 Sol.-4 Str. | .128-.232 | 2 3/4 | 70 | 1 1/8 | 28 | 3 | 76 | 1 3/4 | 44 | 3/8 |
| GU-2 | 1 | 4 Sol.-2/0 Str. | .204-.419 | 2 3/4 | 70 | 1 1/8 | 28 | 3 1/4 | 82 | 1 3/4 | 44 | 3/8 |
| GU-3 | 1 | 2/0 Sol.-250 MCM | .365-.575 | 2 3/4 | 70 | 1 1/4 | 32 | 3 1/2 | 89 | 1 3/4 | 44 | 3/8 |
| GU-4 | 1 1/4 | 8 Sol.-4 Str. | .128-.232 | 3 | 76 | 1 1/8 | 28 | 3 1/4 | 82 | 2 1/16 | 53 | 3/8 |
| GU-5 | 1 1/4 | 4 Sol.-2/0 Str. | .204-.419 | 3 | 76 | 1 1/4 | 32 | 3 1/2 | 89 | 2 1/16 | 53 | 3/8 |
| GU-6 | 1 1/4 | 2/0 Sol.-250 MCM | .365-.575 | 3 | 76 | 1 3/8 | 34 | 3 3/4 | 95 | 2 1/16 | 53 | 3/8 |
| GU-7 | 1 1/2 | 8 Sol.-4 Str. | .128-.232 | 3 3/8 | 85 | 1 1/4 | 32 | 3 1/2 | 89 | 2 3/8 | 60 | 3/8 |
| GU-8 | 1 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 3 3/8 | 85 | 1 3/8 | 34 | 3 5/8 | 92 | 2 3/8 | 60 | 3/8 |
| GU-9 | 1 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 3 3/8 | 85 | 1 1/2 | 38 | 3 3/4 | 95 | 2 3/8 | 60 | 3/8 |
| GU-10 | 2 | 8 Sol.-4 Str. | .128-.232 | 3 3/4 | 95 | 1 3/8 | 34 | 3 7/8 | 98 | 2 13/16 | 71 | 3/8 |
| GU-11 | 2 | 4 Sol.-2/0 Str. | .204-.419 | 3 3/4 | 95 | 1 3/8 | 34 | 4 1/8 | 105 | 2 13/16 | 71 | 3/8 |
| GU-12 | 2 | 2/0 Sol.-250 MCM | .365-.575 | 3 3/4 | 95 | 1 3/8 | 34 | 4 1/4 | 108 | 2 13/16 | 71 | 3/8 |
| GU-13 | 2 | 300-500 MCM | .634-.815 | 4 | 102 | 1 1/2 | 38 | 4 5/8 | 118 | 2 15/16 | 75 | 1/2 |
| GU-14 | 2 1/2 | 8 Sol.-4 Str. | .128-.232 | 4 1/4 | 108 | 1 3/8 | 34 | 5 | 127 | 3 5/16 | 84 | 3/8 |
| GU-15 | 2 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 4 1/4 | 108 | 1 3/8 | 34 | 5 1/8 | 130 | 3 5/16 | 84 | 3/8 |
| GU-16 | 2 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 4 1/4 | 108 | 1 3/8 | 34 | 5 1/4 | 133 | 3 5/16 | 84 | 3/8 |
| GU-17 | 2 1/2 | 300-500 MCM | .634-.815 | 4 1/2 | 115 | 1 1/2 | 38 | 5 1/2 | 140 | 3 7/16 | 87 | 1/2 |
| GU-18 | 2 1/2 | 500-750 MCM | .815-.999 | 4 1/2 | 115 | 1 1/2 | 38 | 5 3/4 | 146 | 3 7/16 | 87 | 1/2 |
| GU-19 | 3 | 8 Sol.-4 Str. | .128-.232 | 5 | 127 | 1 3/8 | 34 | 5 1/4 | 133 | 3 15/16 | 100 | 3/8 |
| GU-20 | 3 | 4 Sol.-2/0 Str. | .204-.419 | 5 | 127 | 1 3/8 | 34 | 5 1/2 | 140 | 3 15/16 | 100 | 3/8 |
| GU-21 | 3 | 2/0 Sol.-250 MCM | .365-.575 | 5 | 127 | 1 3/8 | 34 | 5 3/4 | 146 | 3 15/16 | 100 | 3/8 |
| GU-22 | 3 | 300-500 MCM | .634-.815 | 5 1/4 | 133 | 1 1/2 | 38 | 6 | 152 | 4 1/16 | 104 | 1/2 |
| GU-23 | 3 | 500-750 MCM | .815-.999 | 5 1/2 | 140 | 1 3/4 | 44 | 6 3/8 | 161 | 4 3/16 | 107 | 5/8 |
| GU-25 | 3 1/2 | 8 Sol.-4 Str. | .128-.232 | 5 1/2 | 140 | 1 1/2 | 38 | 6 | 152 | 4 7/16 | 113 | 3/8 |
| GU-26 | 3 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 5 1/2 | 140 | 1 1/2 | 38 | 6 1/8 | 155 | 4 7/16 | 113 | 3/8 |
| GU-27 | 3 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 5 1/2 | 140 | 1 1/2 | 38 | 6 1/4 | 158 | 4 7/16 | 113 | 3/8 |
| GU-28 | 3 1/2 | 300-500 MCM | .634-.815 | 5 3/4 | 146 | 1 3/4 | 44 | 6 3/8 | 161 | 4 9/16 | 116 | 1/2 |
| GU-29 | 3 1/2 | 500-750 MCM | .815-.999 | 6 | 152 | 1 7/8 | 47 | 6 5/8 | 168 | 4 11/16 | 119 | 5/8 |
| GU-30 | 3 1/2 | 750-1000 MCM | .999-1.153 | 6 | 152 | 2 1/8 | 54 | 7 | 178 | 4 11/16 | 119 | 5/8 |
| GU-31 | 4 | 8 Sol.-4 Str. | .128-.232 | 6 | 152 | 1 1/2 | 38 | 6 1/2 | 165 | 4 15/16 | 126 | 3/8 |
| GU-32 | 4 | 4 Sol.-2/0 Str. | .204-.419 | 6 | 152 | 1 1/2 | 38 | 6 3/4 | 171 | 4 15/16 | 126 | 3/8 |
| GU-33 | 4 | 2/0 Sol.-250 MCM | .365-.575 | 6 | 152 | 1 5/8 | 41 | 7 | 178 | 4 15/16 | 126 | 3/8 |
| GU-34 | 4 | 300-500 MCM | .634-.815 | 6 1/4 | 158 | 1 5/8 | 41 | 7 1/4 | 184 | 5 1/16 | 129 | 1/2 |
| GU-35 | 4 | 500-750 MCM | .815-.999 | 6 1/2 | 165 | 1 7/8 | 47 | 7 1/2 | 191 | 5 3/16 | 132 | 5/8 |
| GU-36 | 4 | 750-1000 MCM | .999-1.153 | 6 1/2 | 165 | 2 1/8 | 54 | 7 3/4 | 197 | 5 3/16 | 132 | 5/8 |
| GU-37 | 4 | 1250-1500 MCM | 1.290-1.412 | 6 1/2 | 165 | 2 3/8 | 60 | 8 1/8 | 206 | 5 3/16 | 132 | 5/8 |

†For conversion to metric range, see page 175.

‡3/8" U-Bolt threaded as shown above, add suffix "FT" for full thread. 1/2" U-Bolt standard is full thread.

BRONZE GROUND CLAMP CONNECTOR • TYPE GR

For clamping three equal size cables to pipe or rod



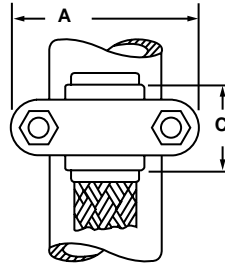
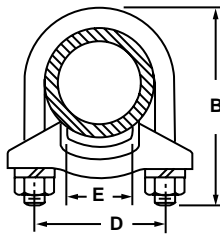
Made from high copper content alloy. Furnished with silicon bronze bolt, nuts and lockwashers.

| Catalog Number | Accommodates | | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | Bolt Dia.† |
|----------------|--------------|------------|------------------|----------------------|------------------------|-----|-------|----|-------|-----|---------|-----|------------|
| | Rod | IPS | | | A | | B | | C | | D | | |
| | | | | in | in | mm | in | mm | in | mm | in | mm | |
| GR-1 | 1/2 | 1/4 | 8 Sol.-4 Str. | .128-.232 | 2 1/2 | 64 | 1 1/2 | 38 | 2 1/4 | 57 | 1 | 25 | 3/8 |
| GR-2 | 1/2 | 1/4 | 4 Sol.-2/0 Str. | .204-.419 | 3 | 76 | 1 1/2 | 38 | 2 1/2 | 64 | 1 | 25 | 3/8 |
| GR-3 | 1/2 | 1/4 | 2/0 Sol.-250 MCM | .365-.575 | 3 5/8 | 92 | 1 1/2 | 38 | 2 3/4 | 70 | 1 | 25 | 3/8 |
| GR-4 | 5/8 or 3/4 | 3/8 | 8 Sol.-4 Str. | .128-.232 | 2 3/4 | 70 | 1 1/2 | 38 | 2 1/2 | 64 | 1 1/8 | 28 | 3/8 |
| GR-5 | 5/8 or 3/4 | 3/8 | 4 Sol.-2/0 Str. | .204-.419 | 3 | 76 | 1 1/2 | 38 | 2 3/4 | 70 | 1 1/8 | 28 | 3/8 |
| GR-6 | 5/8 or 3/4 | 3/8 | 2/0 Sol.-250 MCM | .365-.575 | 3 1/2 | 89 | 1 5/8 | 41 | 3 | 76 | 1 1/8 | 28 | 3/8 |
| GR-7 | 5/8 or 3/4 | 3/8 | 300-500 MCM | .634-.815 | 4 | 102 | 1 5/8 | 41 | 3 1/4 | 82 | 1 1/8 | 28 | 1/2 |
| GR-8 | 7/8 or 1 | 1/2 or 3/4 | 8 Sol.-4 Str. | .128-.232 | 2 7/8 | 73 | 1 1/2 | 38 | 3 | 76 | 1 1/2 | 38 | 3/8 |
| GR-9 | 7/8 or 1 | 1/2 or 3/4 | 4 Sol.-2/0 Str. | .204-.419 | 3 1/2 | 89 | 1 1/2 | 38 | 3 1/4 | 82 | 1 1/2 | 38 | 3/8 |
| GR-10 | 7/8 or 1 | 1/2 or 3/4 | 2/0 Sol.-250 MCM | .365-.575 | 3 7/8 | 98 | 1 5/8 | 41 | 3 3/8 | 85 | 1 1/2 | 38 | 1/2 |
| GR-11 | 7/8 or 1 | 1/2 or 3/4 | 300-500 MCM | .634-.815 | 4 3/8 | 111 | 1 5/8 | 41 | 3 1/2 | 89 | 1 1/2 | 38 | 1/2 |
| GR-12 | 7/8 or 1 | 1/2 or 3/4 | 500-750 MCM | .815-.999 | 5 | 127 | 1 3/4 | 44 | 4 | 102 | 1 5/8 | 41 | 1/2 |
| GR-13 | - | 1 | 8 Sol.-4 Str. | .128-.232 | 3 1/4 | 82 | 1 1/2 | 38 | 3 | 76 | 1 3/4 | 44 | 3/8 |
| GR-14 | - | 1 | 4 Sol.-2/0 Str. | .204-.419 | 3 5/8 | 92 | 1 1/2 | 38 | 3 1/4 | 82 | 1 3/4 | 44 | 3/8 |
| GR-15 | - | 1 | 2/0 Sol.-250 MCM | .365-.575 | 4 1/8 | 105 | 1 5/8 | 41 | 3 1/2 | 89 | 1 3/4 | 44 | 3/8 |
| GR-16 | - | 1 | 300-500 MCM | .634-.815 | 4 1/2 | 115 | 1 5/8 | 41 | 3 3/4 | 95 | 1 3/4 | 44 | 1/2 |
| GR-17 | - | 1 | 500-750 MCM | .815-.999 | 5 1/8 | 130 | 1 3/4 | 44 | 4 1/4 | 108 | 1 7/8 | 47 | 1/2 |
| GR-18 | - | 1 | 750-1000 MCM | .999-1.153 | 5 1/2 | 140 | 1 3/4 | 44 | 4 1/2 | 115 | 1 7/8 | 47 | 1/2 |
| GR-19 | - | 1 1/4 | 8 Sol.-4 Str. | .128-.232 | 3 1/2 | 89 | 1 1/2 | 38 | 3 1/2 | 89 | 2 1/16 | 53 | 3/8 |
| GR-20 | - | 1 1/4 | 4 Sol.-2/0 Str. | .204-.419 | 4 | 102 | 1 1/2 | 38 | 3 3/4 | 95 | 2 1/16 | 53 | 3/8 |
| GR-21 | - | 1 1/4 | 2/0 Sol.-250 MCM | .365-.575 | 4 1/2 | 115 | 1 5/8 | 41 | 3 7/8 | 98 | 2 1/16 | 53 | 3/8 |
| GR-22 | - | 1 1/4 | 300-500 MCM | .634-.815 | 5 1/8 | 130 | 1 3/4 | 44 | 4 3/8 | 111 | 2 3/16 | 56 | 1/2 |
| GR-23 | - | 1 1/4 | 500-750 MCM | .815-.999 | 5 3/4 | 146 | 2 | 51 | 5 1/8 | 130 | 2 5/16 | 59 | 5/8 |
| GR-24 | - | 1 1/4 | 750-1000 MCM | .999-1.153 | 6 1/4 | 158 | 2 | 51 | 5 3/8 | 136 | 2 5/16 | 59 | 5/8 |
| GR-25 | - | 1 1/2 | 8 Sol.-4 Str. | .128-.232 | 3 3/4 | 95 | 1 1/2 | 38 | 3 3/4 | 95 | 2 3/8 | 60 | 3/8 |
| GR-26 | - | 1 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 4 1/4 | 108 | 1 1/2 | 38 | 4 | 102 | 2 3/8 | 60 | 3/8 |
| GR-27 | - | 1 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 4 3/4 | 121 | 1 3/4 | 44 | 4 1/4 | 108 | 2 3/8 | 60 | 3/8 |
| GR-28 | - | 1 1/2 | 300-500 MCM | .634-.815 | 5 1/2 | 140 | 2 | 51 | 4 3/4 | 121 | 2 1/2 | 64 | 1/2 |
| GR-29 | - | 1 1/2 | 500-750 MCM | .815-.999 | 6 1/4 | 158 | 2 1/4 | 57 | 5 1/4 | 133 | 2 5/8 | 67 | 5/8 |
| GR-30 | - | 1 1/2 | 750-1000 MCM | .999-1.153 | 6 1/2 | 165 | 2 1/4 | 57 | 5 1/2 | 140 | 2 5/8 | 67 | 5/8 |
| GR-31 | - | 2 | 8 Sol.-4 Str. | .128-.232 | 4 3/8 | 111 | 1 1/2 | 38 | 4 1/4 | 108 | 2 13/16 | 71 | 3/8 |
| GR-32 | - | 2 | 4 Sol.-2/0 Str. | .204-.419 | 4 7/8 | 124 | 1 1/2 | 38 | 4 1/2 | 115 | 2 13/16 | 71 | 3/8 |
| GR-33 | - | 2 | 2/0 Sol.-250 MCM | .365-.575 | 5 1/4 | 133 | 1 3/4 | 44 | 5 | 127 | 2 13/16 | 71 | 1/2 |
| GR-34 | - | 2 | 300-500 MCM | .634-.815 | 5 3/4 | 140 | 2 | 51 | 5 | 127 | 2 15/16 | 75 | 1/2 |
| GR-35 | - | 2 | 500-750 MCM | .815-.999 | 6 3/8 | 168 | 2 1/4 | 57 | 5 3/4 | 146 | 3 1/16 | 78 | 1/2 |
| GR-36 | - | 2 | 750-1000 MCM | .999-1.153 | 7 | 178 | 2 1/4 | 57 | 6 | 152 | 3 1/16 | 78 | 5/8 |
| GR-37 | - | 2 1/2 | 8 Sol.-4 Str. | .128-.232 | 4 7/8 | 124 | 1 1/2 | 38 | 4 5/8 | 118 | 3 5/16 | 84 | 3/8 |
| GR-38 | - | 2 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 5 3/8 | 136 | 1 1/2 | 38 | 5 | 127 | 3 5/16 | 84 | 3/8 |
| GR-39 | - | 2 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 5 7/8 | 149 | 1 3/4 | 44 | 5 1/4 | 133 | 3 5/16 | 84 | 1/2 |
| GR-40 | - | 2 1/2 | 300-500 MCM | .634-.815 | 6 1/2 | 165 | 2 | 51 | 5 3/4 | 146 | 3 7/16 | 87 | 1/2 |
| GR-41 | - | 2 1/2 | 500-750 MCM | .815-.999 | 7 1/4 | 184 | 2 1/4 | 57 | 6 1/4 | 158 | 3 9/16 | 90 | 5/8 |
| GR-42 | - | 2 1/2 | 750-1000 MCM | .999-1.153 | 7 1/2 | 191 | 2 1/4 | 57 | 6 1/2 | 185 | 3 9/16 | 90 | 5/8 |
| GR-43 | - | 3 | 8 Sol.-4 Str. | .128-.232 | 5 1/2 | 140 | 1 1/2 | 38 | 5 1/4 | 133 | 3 15/16 | 100 | 3/8 |
| GR-44 | - | 3 | 4 Sol.-2/0 Str. | .204-.419 | 6 | 152 | 1 1/2 | 38 | 5 5/8 | 143 | 3 15/16 | 100 | 3/8 |
| GR-45 | - | 3 | 2/0 Sol.-250 MCM | .365-.575 | 6 3/8 | 161 | 1 3/4 | 44 | 5 3/4 | 146 | 3 15/16 | 100 | 1/2 |
| GR-46 | - | 3 | 300-500 MCM | .634-.815 | 6 7/8 | 174 | 2 | 51 | 6 1/4 | 158 | 4 1/16 | 104 | 1/2 |
| GR-47 | - | 3 | 500-750 MCM | .815-.999 | 7 1/2 | 191 | 2 1/4 | 57 | 6 5/8 | 168 | 4 3/16 | 107 | 5/8 |
| GR-48 | - | 3 | 750-1000 MCM | .999-1.153 | 8 1/8 | 206 | 2 1/4 | 57 | 6 7/8 | 174 | 4 3/16 | 107 | 5/8 |
| GR-49 | - | 3 1/2 | 8 Sol.-4 Str. | .128-.232 | 6 | 152 | 1 1/2 | 38 | 5 5/8 | 143 | 4 7/16 | 113 | 3/8 |
| GR-50 | - | 3 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 6 3/8 | 161 | 1 1/2 | 38 | 5 7/8 | 149 | 4 7/16 | 113 | 1/2 |
| GR-51 | - | 3 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 6 3/4 | 171 | 1 3/4 | 44 | 6 3/8 | 161 | 4 7/16 | 113 | 1/2 |
| GR-60 | - | 4 | 8 Sol.-4 Str. | .128-.232 | 6 3/8 | 161 | 1 1/2 | 38 | 6 3/8 | 161 | 4 15/16 | 120 | 3/8 |
| GR-61 | - | 4 | 4 Sol.-2/0 Str. | .204-.419 | 6 11/16 | 169 | 1 1/2 | 38 | 6 3/8 | 161 | 4 15/16 | 126 | 1/2 |
| GR-62 | - | 4 | 2/0 Sol.-250 MCM | .365-.575 | 7 1/4 | 184 | 1 3/4 | 44 | 6 3/4 | 171 | 4 15/16 | 126 | 1/2 |

‡For conversion to metric range, see page 175. †3/8" U-Bolt threaded as shown above, add suffix "FT" for full thread. 1/2" U-Bolt standard is full thread.

BRONZE GROUND CLAMP CONNECTORS • TYPE GO

For clamping braid, cable or strip copper to pipe



Made from high copper content alloy. Furnished with silicon bronze bolt, nuts and lockwashers.

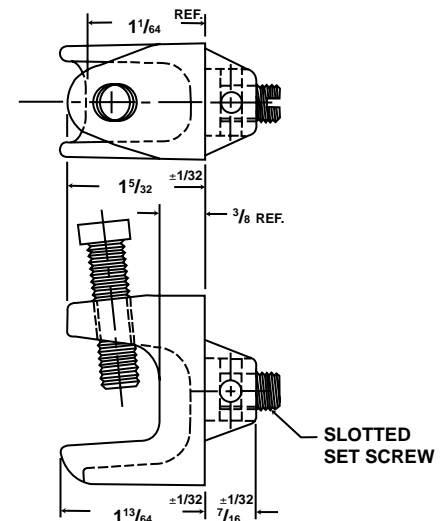
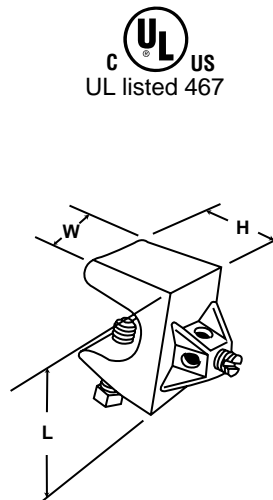
| Catalog Number | IPS | Approximate Dimensions | | | | | | | | | | Bolt Dia.† |
|----------------|-------|------------------------|-----|-------|-----|-------|----|---------|-----|-------|----|------------|
| | | A | | B | | C | | D | | E | | |
| | | in | mm | in | mm | in | mm | in | mm | in | mm | |
| GO-0 | 3/4 | 2 1/2 | 64 | 2 1/2 | 64 | 1 1/8 | 28 | 1 1/2 | 38 | 1 | 25 | 3/8 |
| GO-1 | 1 | 2 3/4 | 70 | 3 1/4 | 82 | 1 1/4 | 32 | 1 3/4 | 44 | 1 | 25 | 3/8 |
| GO-2 | 1 1/4 | 3 | 76 | 3 1/2 | 89 | 1 3/8 | 34 | 2 1/16 | 53 | 1 | 25 | 3/8 |
| GO-3 | 1 1/2 | 3 3/8 | 85 | 3 1/2 | 89 | 1 1/2 | 38 | 2 3/8 | 60 | 1 | 25 | 3/8 |
| GO-4 | 1 1/2 | 3 3/8 | 85 | 3 1/2 | 89 | 1 1/2 | 38 | 2 3/8 | 60 | 1 1/2 | 38 | 3/8 |
| GO-4A | 1 1/2 | 3 3/8 | 85 | 3 1/2 | 89 | 1 1/2 | 38 | 2 3/8 | 60 | 2 | 51 | 1/2 |
| GO-5 | 2 | 3 3/4 | 95 | 4 1/4 | 108 | 1 1/2 | 38 | 2 13/16 | 71 | 1 | 25 | 3/8 |
| GO-6 | 2 | 3 3/4 | 95 | 4 1/4 | 108 | 1 1/2 | 38 | 2 13/16 | 71 | 1 1/2 | 38 | 3/8 |
| GO-7 | 2 | 4 | 102 | 4 3/8 | 111 | 1 3/4 | 44 | 2 15/16 | 75 | 2 | 51 | 1/2 |
| GO-7A | 2 1/2 | 4 1/2 | 115 | 5 | 127 | 1 3/4 | 44 | 3 7/16 | 87 | 1 1/2 | 38 | 1/2 |
| GO-8 | 2 1/2 | 4 1/2 | 115 | 5 | 127 | 1 7/8 | 47 | 3 7/16 | 87 | 2 | 51 | 1/2 |
| GO-9 | 2 1/2 | 4 1/2 | 115 | 5 | 127 | 2 | 51 | 3 7/16 | 87 | 2 1/2 | 84 | 1/2 |
| GO-10 | 3 | 5 1/4 | 133 | 6 1/4 | 158 | 2 | 51 | 4 1/16 | 104 | 2 | 51 | 1/2 |
| GO-11 | 3 | 5 1/4 | 133 | 6 1/4 | 158 | 2 | 51 | 4 1/16 | 104 | 2 1/2 | 64 | 1/2 |
| GO-12 | 3 | 5 1/4 | 133 | 6 1/4 | 158 | 2 | 51 | 4 1/16 | 104 | 3 | 76 | 1/2 |
| GO-13 | 3 1/2 | 5 3/4 | 146 | 5 7/8 | 149 | 2 1/4 | 57 | 4 9/16 | 116 | 2 | 51 | 1/2 |
| GO-14 | 3 1/2 | 5 3/4 | 146 | 5 7/8 | 149 | 2 1/4 | 57 | 4 9/16 | 116 | 2 1/2 | 64 | 1/2 |
| GO-15 | 3 1/2 | 5 3/4 | 146 | 5 7/8 | 149 | 2 1/4 | 57 | 4 9/16 | 116 | 3 | 76 | 1/2 |
| GO-16 | 4 | 6 1/4 | 158 | 6 1/2 | 165 | 2 1/4 | 57 | 5 1/16 | 129 | 2 | 51 | 1/2 |
| GO-17 | 4 | 6 1/4 | 158 | 6 1/2 | 165 | 2 3/8 | 60 | 5 1/16 | 129 | 2 1/2 | 64 | 1/2 |
| GO-18 | 4 | 6 1/4 | 158 | 6 1/2 | 165 | 2 1/2 | 64 | 5 1/16 | 129 | 3 | 76 | 1/2 |
| GO-19 | 4 | 6 1/4 | 158 | 6 1/2 | 165 | 2 3/4 | 70 | 5 1/16 | 129 | 3 1/2 | 89 | 1/2 |

3/8" U-Bolt threaded as shown above, add suffix "FT" for full thread. 1/2" U-Bolt standard is full thread.

TRAILER GROUND CLAMPS • TYPE GBC AND GBCH

Grounds Trailer Frames, Cable Trays, Pedestals - Connects #6-#14 solid copper conductor to metal frames where continuity of grounding can be assured. Ground wire may be installed on clamp prior to mounting the clamp on metal frame, reducing installation time. High strength copper alloy (91% nominal) provides conductivity, durability and excellent corrosion resistant characteristics. High strength steel zinc plated anchoring bolt penetrates paint or metal oxide. Hex head bolt installs with can wrench, socket or crescent wrench. Square head bolt allows clamp to be installed with pliers when tighter ground connection is needed.

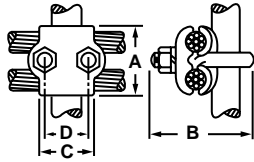
| Catalog Number | Wire Range | Beam Bolt | L | W | H |
|----------------|------------|-------------------|-------|----|--------|
| GBC-6 | #6-#14 | Sq HD 5/16-18 | 1 5/8 | 1" | 1 3/16 |
| GBCH-6 | | Hex HD 5/16-18 | | | |



BRONZE GROUND CLAMP CONNECTOR • TYPE GT



For clamping parallel cables or wires to pipe or rod



Made from high copper content alloy. Furnished with silicon bronze bolt, nuts and lockwashers.

| Catalog Number | Accommodates | | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | Bolt Dia.† |
|----------------|--------------|------------|------------------|----------------------|------------------------|-----|-------|-----|-------|-----|---------|-----|------------|
| | Rod | IPS | | | A | | B | | C | | D | | |
| | | | | in | in | mm | in | mm | in | mm | in | mm | |
| GT-1 | 1/2 | 1/4 | 8 Sol.-4 Str. | .128-.232 | 1 5/8 | 41 | 2 | 51 | 1 5/8 | 41 | 1 | 25 | 3/8 |
| GT-2 | 1/2 | 1/4 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 2 1/8 | 54 | 1 3/4 | 44 | 1 | 25 | 3/8 |
| GT-3 | 1/2 | 1/4 | 2/0 Sol.-250 MCM | .365-.575 | 2 1/2 | 64 | 2 1/4 | 57 | 1 7/8 | 47 | 1 | 25 | 3/8 |
| GT-4 | 5/8 or 3/4 | 3/8 | 8 Sol.-4 Str. | .128-.232 | 1 5/8 | 41 | 2 1/8 | 54 | 1 5/8 | 41 | 1 1/8 | 28 | 3/8 |
| GT-5 | 5/8 or 3/4 | 3/8 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 2 1/2 | 64 | 1 3/4 | 44 | 1 1/8 | 28 | 3/8 |
| GT-6 | 5/8 or 3/4 | 3/8 | 2/0 Sol.-250 MCM | .365-.575 | 2 1/2 | 64 | 2 5/8 | 67 | 1 7/8 | 47 | 1 1/8 | 28 | 3/8 |
| GT-7 | 5/8 or 3/4 | 3/8 | 300-500 MCM | .634-.815 | 2 3/4 | 70 | 2 3/4 | 70 | 2 | 51 | 1 1/8 | 28 | 3/8 |
| GT-8 | 7/8 or 1 | 1/2 or 3/4 | 8 Sol.-4 Str. | .128-.232 | 1 5/8 | 41 | 2 1/2 | 64 | 1 5/8 | 41 | 1 1/2 | 38 | 3/8 |
| GT-9 | 7/8 or 1 | 1/2 or 3/4 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 2 3/4 | 70 | 1 3/4 | 44 | 1 1/2 | 38 | 3/8 |
| GT-10 | 7/8 or 1 | 1/2 or 3/4 | 2/0 Sol.-250 MCM | .365-.575 | 2 1/2 | 64 | 2 7/8 | 73 | 1 7/8 | 47 | 1 1/2 | 38 | 3/8 |
| GT-11 | 7/8 or 1 | 1/2 or 3/4 | 300-500 MCM | .634-.815 | 2 3/4 | 70 | 3 | 76 | 2 | 51 | 1 1/2 | 38 | 3/8 |
| GT-12 | 7/8 or 1 | 1/2 or 3/4 | 500-750 MCM | .815-.999 | 3 1/8 | 79 | 3 3/4 | 95 | 2 1/4 | 57 | 1 5/8 | 41 | 1/2 |
| GT-13 | - | 1 | 8 Sol.-4 Str. | .128-.232 | 1 5/8 | 41 | 2 3/4 | 70 | 1 5/8 | 41 | 1 3/4 | 44 | 3/8 |
| GT-14 | - | 1 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 3 | 76 | 1 3/4 | 44 | 1 3/4 | 44 | 3/8 |
| GT-15 | - | 1 | 2/0 Sol.-250 MCM | .365-.575 | 2 1/2 | 64 | 3 7/8 | 98 | 3 1/8 | 79 | 1 3/4 | 44 | 3/8 |
| GT-16 | - | 1 | 300-500 MCM | .634-.815 | 2 3/4 | 70 | 3 3/4 | 95 | 2 | 51 | 1 3/4 | 44 | 3/8 |
| GT-17 | - | 1 | 500-750 MCM | .815-.999 | 3 1/8 | 79 | 4 1/8 | 105 | 2 1/4 | 57 | 1 7/8 | 47 | 1/2 |
| GT-18 | - | 1 1/4 | 8 Sol.-4 Str. | .128-.232 | 1 5/8 | 41 | 3 | 76 | 1 7/8 | 47 | 2 1/16 | 53 | 3/8 |
| GT-19 | - | 1 1/4 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 3 1/4 | 82 | 2 | 51 | 2 1/16 | 53 | 3/8 |
| GT-20 | - | 1 1/4 | 2/0 Sol.-250 MCM | .365-.575 | 2 1/2 | 64 | 3 1/2 | 89 | 2 1/8 | 54 | 2 1/16 | 53 | 3/8 |
| GT-21 | - | 1 1/4 | 300-500 MCM | .634-.815 | 2 3/4 | 70 | 4 1/8 | 105 | 2 1/4 | 57 | 2 3/16 | 56 | 1/2 |
| GT-22 | - | 1 1/4 | 500-750 MCM | .815-.999 | 3 3/4 | 95 | 4 3/8 | 111 | 2 1/2 | 64 | 2 5/16 | 59 | 5/8 |
| GT-23 | - | 1 1/4 | 750-1000 MCM | .999-1.153 | 4 | 102 | 4 5/8 | 118 | 2 3/4 | 70 | 2 5/16 | 59 | 5/8 |
| GT-24 | - | 1 1/2 | 8 Sol.-4 Str. | .128-.232 | 1 5/8 | 41 | 3 1/4 | 82 | 2 1/4 | 57 | 2 3/8 | 60 | 3/8 |
| GT-25 | - | 1 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 3 1/2 | 89 | 2 3/8 | 60 | 2 3/8 | 60 | 3/8 |
| GT-26 | - | 1 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 2 1/2 | 64 | 3 7/8 | 98 | 2 1/2 | 64 | 2 3/8 | 60 | 3/8 |
| GT-27 | - | 1 1/2 | 300-500 MCM | .634-.815 | 2 3/4 | 70 | 4 3/8 | 111 | 2 5/8 | 67 | 2 1/2 | 64 | 1/2 |
| GT-28 | - | 1 1/2 | 500-750 MCM | .815-.999 | 3 3/4 | 95 | 4 3/4 | 121 | 2 3/4 | 70 | 2 5/8 | 67 | 5/8 |
| GT-29 | - | 1 1/2 | 750-1000 MCM | .999-1.153 | 4 | 102 | 5 | 127 | 2 7/8 | 73 | 2 5/8 | 67 | 5/8 |
| GT-30 | - | 2 | 8 Sol.-4 Str. | .128-.282 | 1 3/4 | 44 | 3 7/8 | 98 | 2 3/4 | 70 | 2 13/16 | 71 | 3/8 |
| GT-31 | - | 2 | 4 Sol. 2/0 Str. | .204-.419 | 2 | 51 | 4 1/8 | 105 | 2 7/8 | 73 | 2 13/16 | 71 | 3/8 |
| GT-32 | - | 2 | 2/0 Sol.-250 MCM | .365-.575 | 2 5/8 | 67 | 4 1/4 | 108 | 3 | 76 | 2 13/16 | 71 | 3/8 |
| GT-33 | - | 2 | 300-500 MCM | .634-.815 | 2 7/8 | 73 | 4 3/8 | 118 | 3 1/8 | 79 | 2 15/16 | 75 | 1/2 |
| GT-34 | - | 2 | 500-750 MCM | .815-.999 | 3 3/4 | 95 | 5 1/4 | 133 | 3 1/4 | 82 | 3 1/16 | 78 | 5/8 |
| GT-35 | - | 2 | 750-1000 MCM | .999-1.153 | 4 | 102 | 5 1/2 | 140 | 3 1/4 | 82 | 3 1/16 | 78 | 5/8 |
| GT-36 | - | 2 1/2 | 8 Sol.-4 Str. | .128-.232 | 1 3/4 | 44 | 4 3/8 | 111 | 3 3/8 | 85 | 3 5/8 | 92 | 3/8 |
| GT-37 | - | 2 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 4 1/2 | 115 | 3 3/8 | 85 | 3 5/16 | 84 | 3/8 |
| GT-38 | - | 2 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 2 5/8 | 67 | 4 3/4 | 121 | 3 1/2 | 89 | 3 5/16 | 84 | 3/8 |
| GT-39 | - | 2 1/2 | 300-500 MCM | .634-.815 | 2 7/8 | 73 | 5 1/8 | 130 | 3 3/8 | 92 | 3 7/16 | 87 | 1/2 |
| GT-40 | - | 2 1/2 | 500-750 MCM | .815-.999 | 3 3/4 | 95 | 5 5/8 | 143 | 3 3/4 | 95 | 3 9/16 | 90 | 5/8 |
| GT-41 | - | 2 1/2 | 750-1000 MCM | .999-1.153 | 4 | 102 | 5 3/4 | 146 | 3 3/4 | 95 | 3 9/16 | 90 | 5/8 |
| GT-42 | - | 3 | 8 Sol.-4 Str. | .128-.232 | 1 3/4 | 44 | 5 | 127 | 3 5/8 | 92 | 3 15/16 | 100 | 3/8 |
| GT-43 | - | 3 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 5 1/4 | 133 | 3 3/4 | 95 | 3 15/16 | 100 | 3/8 |
| GT-44 | - | 3 | 2/0 Sol.-250 MCM | .365-.575 | 2 5/8 | 67 | 5 1/2 | 140 | 3 3/4 | 95 | 3 15/16 | 100 | 3/8 |
| GT-45 | - | 3 | 300-500 MCM | .634-.815 | 2 7/8 | 73 | 5 7/8 | 149 | 3 7/8 | 98 | 4 1/16 | 104 | 1/2 |
| GT-46 | - | 3 | 500-750 MCM | .815-.999 | 3 3/4 | 95 | 6 1/2 | 165 | 4 1/8 | 105 | 4 3/16 | 107 | 5/8 |
| GT-47 | - | 3 | 750-1000 MCM | .999-1.153 | 4 | 102 | 6 3/4 | 171 | 4 1/8 | 105 | 4 3/16 | 107 | 5/8 |
| GT-48 | - | 3 1/2 | 8 Sol.-4 Str. | .128-.232 | 1 3/4 | 44 | 5 1/2 | 140 | 3 7/8 | 98 | 4 7/16 | 113 | 3/8 |
| GT-49 | - | 3 1/2 | 4 Sol.-2/0 Str. | .204-.419 | 2 | 51 | 5 7/8 | 149 | 3 7/8 | 98 | 4 7/16 | 113 | 3/8 |
| GT-50 | - | 3 1/2 | 2/0 Sol.-250 MCM | .365-.575 | 2 5/8 | 67 | 6 1/8 | 155 | 4 | 102 | 4 7/16 | 113 | 3/8 |
| GT-51 | - | 3 1/2 | 300-500 MCM | .634-.815 | 2 7/8 | 73 | 6 1/2 | 165 | 4 1/4 | 105 | 4 9/16 | 116 | 1/2 |
| GT-52 | - | 3 1/2 | 500-750 MCM | .815-.999 | 3 3/4 | 95 | 7 1/8 | 181 | 4 5/8 | 118 | 4 11/16 | 119 | 5/8 |
| GT-53 | - | 3 1/2 | 750-1000 MCM | .999-1.153 | 4 | 102 | 7 3/8 | 187 | 4 5/8 | 118 | 4 11/16 | 119 | 5/8 |
| GT-54 | - | 3 1/2 | 1250-1500 MCM | 1.290-1.412 | 4 1/4 | 108 | 7 5/8 | 194 | 4 3/4 | 121 | 4 11/16 | 119 | 5/8 |
| GT-55 | - | 4 | 2/0 Sol.-250 MCM | .365-.575 | 2 5/8 | 67 | 6 1/2 | 165 | 4 3/4 | 121 | 4 15/16 | 126 | 3/8 |
| GT-56 | - | 4 | 300-500 MCM | .634-.815 | 2 7/8 | 73 | 7 | 178 | 5 | 127 | 5 1/16 | 129 | 1/2 |

BRONZE GROUND CLAMP CONNECTORS • TYPES GM, GMS & GWL

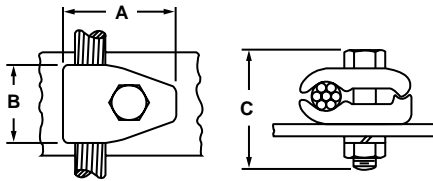
For clamping cable or wire to flat surface

Made from high copper content alloy. Furnished with silicon bronze bolt, nut and lockwasher. Standard catalog items for 1/4" bar, for other applications, specify bar thickness.



TYPE GM

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Bolt Dia. |
|----------------|------------------|----------------------|------------------------|----|-------|----|-------|----|-----------|
| | | | A | | B | | C | | |
| | | in | in | mm | in | mm | in | mm | |
| GM-1 | 8 Sol.-4 Str. | .128- .232 | 1 1/4 | 32 | 1 | 25 | 1 5/8 | 41 | 3/8 |
| GM-2 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 1 1/8 | 28 | 1 3/4 | 44 | 3/8 |
| GM-3 | 2/0 Sol.-250 MCM | .365- .575 | 2 1/8 | 54 | 1 1/2 | 38 | 2 | 51 | 1/2 |
| GM-4• | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 1 5/8 | 41 | 2 1/2 | 64 | 1/2 |
| GM-5• | 500-750 MCM | .815- .999 | 3 | 76 | 1 3/4 | 44 | 3 | 76 | 5/8 |
| GM-6• | 750-1000 MCM | .999-1.153 | 3 1/2 | 89 | 1 7/8 | 47 | 3 1/8 | 79 | 5/8 |

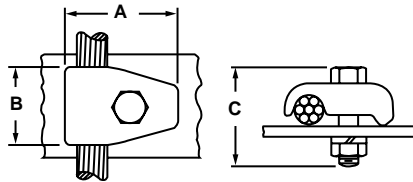


‡For conversion to metric range, see page 175.
•UL listing is limited to a maximum wire size of 250 MCM by UL467.



TYPE GMS

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Bolt Dia. |
|----------------|------------------|----------------------|------------------------|----|-------|----|-------|----|-----------|
| | | | A | | B | | C | | |
| | | in | in | mm | in | mm | in | mm | |
| GMS-1 | 8 Sol.-4 Str. | .128- .232 | 1 1/4 | 32 | 1 | 25 | 1 5/8 | 41 | 3/8 |
| GMS-2 | 4 Sol.-2/0 Str. | .204- .419 | 1 5/8 | 41 | 1 1/8 | 28 | 1 3/4 | 44 | 3/8 |
| GMS-3 | 2/0 Sol.-250 MCM | .365- .575 | 2 1/8 | 54 | 1 1/2 | 38 | 2 | 51 | 1/2 |
| GMS-4• | 300-500 MCM | .634- .815 | 2 3/8 | 60 | 1 5/8 | 41 | 2 1/2 | 64 | 1/2 |
| GMS-5• | 500-750 MCM | .815- .999 | 3 | 76 | 1 3/4 | 44 | 3 | 76 | 5/8 |
| GMS-6• | 750-1000 MCM | .999-1.153 | 3 1/2 | 89 | 1 7/8 | 47 | 3 1/8 | 79 | 5/8 |

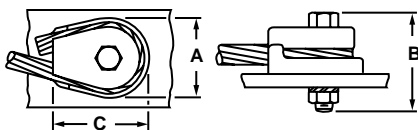


‡For conversion to metric range, see page 175.
•UL listing is limited to a maximum wire size of 250 MCM by UL467.



TYPE GWL

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Bolt Dia. |
|----------------|------------------|----------------------|------------------------|----|-------|----|-------|----|-----------|
| | | | A | | B | | C | | |
| | | in | in | mm | in | mm | in | mm | |
| GWL-1 | 8 Str.-4 Str. | .146- .232 | 1 1/8 | 28 | 1 1/2 | 38 | 1 3/8 | 34 | 3/8 |
| GWL-2 | 8 Str.-4 Str. | .146- .232 | 1 3/4 | 44 | 1 3/4 | 44 | 1 7/8 | 47 | 1/2 |
| GWL-3 | 3 Str.-2/0 Str. | .260- .419 | 1 11/16 | 42 | 2 | 51 | 1 7/8 | 47 | 3/8 |
| GWL-4 | 3 Str.-2/0 Str. | .260- .419 | 1 13/16 | 46 | 2 1/8 | 54 | 1 7/8 | 47 | 1/2 |
| GWL-5 | 3/0 Str.-250 MCM | .470- .575 | 2 1/4 | 57 | 2 1/4 | 57 | 2 3/8 | 60 | 3/8 |
| GWL-6 | 3/0 Str.-250 MCM | .470- .575 | 2 1/4 | 57 | 2 3/8 | 60 | 2 3/8 | 60 | 1/2 |
| GWL-7 | 3/0 Str.-250 MCM | .470- .575 | 2 1/4 | 57 | 2 1/2 | 64 | 2 3/8 | 60 | 5/8 |



‡For conversion to metric range, see page 175.

BRONZE GROUND CLAMP CONNECTORS • TYPES GH, GHS, GJ & GJS

For clamping cable or wires to flat bar

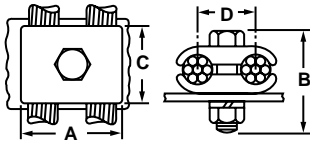
Made from high copper content alloy. Furnished with silicon bronze bolt, nut and lockwasher. Standard catalog items for 1/4" bar, for other applications specify bar thickness.



TYPE GH

| Cat. No. | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | Bolt Dia. |
|----------|------------------|----------------------|------------------------|-----|-------|-----|-------|----|-------|----|-----------|
| | | | A | | B | | C | | D | | |
| | | | in | mm | in | mm | in | mm | in | mm | |
| GH-1 | 8 Sol.-4 Str. | .128- .232 | 1 1/4 | 32 | 1 1/2 | 38 | 1 3/8 | 34 | 3/4 | 19 | 3/8 |
| GH-2 | 4 Sol.-2/0 Str. | .204- .419 | 1 1/2 | 38 | 2 | 51 | 1 5/8 | 41 | 1 | 25 | 3/8 |
| GH-3 | 2/0 Sol.-250 MCM | .365- .575 | 2 | 51 | 2 1/4 | 57 | 1 3/4 | 44 | 1 1/4 | 32 | 1/2 |
| GH-4 | 300-500 MCM | .634- .815 | 2 1/2 | 64 | 2 7/8 | 73 | 2 | 51 | 1 1/2 | 38 | 1/2 |
| GH-5 | 500-750 MCM | .815- .999 | 3 1/4 | 82 | 3 3/8 | 85 | 2 3/8 | 60 | 1 3/4 | 44 | 5/8 |
| GH-6 | 750-1000 MCM | .999-1.153 | 3 5/8 | 92 | 3 3/4 | 95 | 2 1/2 | 64 | 2 | 51 | 5/8 |
| GH-7 | 1000-1250 MCM | 1.153-1.290 | 4 | 102 | 4 | 102 | 2 3/4 | 70 | 2 1/4 | 57 | 5/8 |

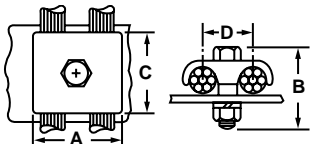
‡For conversion to metric range, see page 175.



TYPE GHS

| Cat. No. | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | Bolt Dia. |
|----------|------------------|----------------------|------------------------|-----|-------|----|-------|----|-------|----|-----------|
| | | | A | | B | | C | | D | | |
| | | | in | mm | in | mm | in | mm | in | mm | |
| GHS-1 | 8 Sol.-4 Str. | .128- .232 | 1 1/4 | 32 | 1 3/8 | 34 | 1 3/8 | 34 | 3/4 | 19 | 3/8 |
| GHS-2 | 4 Sol.-2/0 Str. | .204- .419 | 1 1/2 | 38 | 1 1/2 | 38 | 1 5/8 | 41 | 1 | 25 | 3/8 |
| GHS-3 | 2/0 Sol.-250 MCM | .365- .575 | 2 | 51 | 1 7/8 | 47 | 1 3/4 | 44 | 1 1/4 | 32 | 1/2 |
| GHS-4 | 300-500 MCM | .634- .815 | 2 1/2 | 64 | 2 3/8 | 60 | 2 | 51 | 1 1/2 | 38 | 1/2 |
| GHS-5 | 500-750 MCM | .815- .999 | 3 1/4 | 82 | 2 3/4 | 70 | 2 3/8 | 60 | 1 3/4 | 44 | 5/8 |
| GHS-6 | 750-1000 MCM | .999-1.153 | 3 5/8 | 92 | 2 7/8 | 73 | 2 1/2 | 64 | 2 | 51 | 5/8 |
| GHS-7 | 1000-1250 MCM | 1.153-1.290 | 4 | 102 | 3 | 76 | 2 3/4 | 70 | 2 1/4 | 57 | 5/8 |

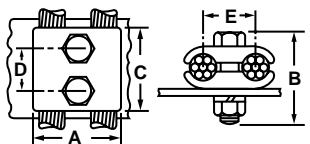
‡For conversion to metric range, see page 175.



TYPE GJ

| Cat. No. | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | Bolt Dia. |
|----------|------------------|----------------------|------------------------|-----|-------|-----|-------|----|--------|----|--------|----|-----------|
| | | | A | | B | | C | | D | | E | | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | |
| GJ-1 | 8 Sol.-4 Str. | .128- .232 | 1 1/4 | 32 | 1 1/2 | 38 | 2 | 51 | 1 5/16 | 24 | 3/4 | 19 | 3/8 |
| GJ-2 | 4 Sol.-2/0 Str. | .204- .419 | 1 1/2 | 38 | 2 | 51 | 2 | 51 | 1 | 25 | 1 | 25 | 3/8 |
| GJ-3 | 2/0 Sol.-250 MCM | .365- .575 | 2 | 51 | 2 1/4 | 57 | 2 1/2 | 64 | 1 5/16 | 33 | 1 5/16 | 33 | 1/2 |
| GJ-4 | 300-500 MCM | .634- .815 | 2 1/2 | 64 | 2 7/8 | 73 | 2 1/2 | 64 | 1 3/8 | 34 | 1 1/2 | 38 | 1/2 |
| GJ-5 | 500-750 MCM | .815- .999 | 3 1/4 | 82 | 3 3/8 | 85 | 3 | 76 | 1 9/16 | 39 | 1 3/4 | 44 | 5/8 |
| GJ-6 | 750-1000 MCM | .999-1.153 | 3 5/8 | 92 | 3 3/4 | 95 | 3 | 76 | 1 9/16 | 39 | 2 | 51 | 5/8 |
| GJ-7 | 1000-1250 MCM | 1.153-1.290 | 4 | 102 | 4 | 102 | 3 1/2 | 89 | 1 3/4 | 44 | 2 1/4 | 57 | 5/8 |

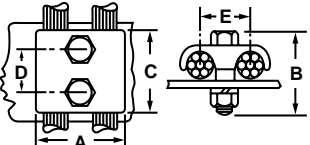
‡For conversion to metric range, see page 175.



TYPE GJS

| Cat. No. | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | | | | | Bolt Dia. |
|----------|------------------|----------------------|------------------------|-----|-------|----|-------|----|--------|----|--------|----|-----------|
| | | | A | | B | | C | | D | | E | | |
| | | | in | mm | in | mm | in | mm | in | mm | in | mm | |
| GJS-1 | 8 Sol.-4 Str. | .128- .232 | 1 1/4 | 32 | 1 3/8 | 34 | 2 | 51 | 1 5/16 | 24 | 3/4 | 19 | 3/8 |
| GJS-2 | 4 Sol.-2/0 Str. | .204- .419 | 1 1/2 | 38 | 1 1/2 | 38 | 2 | 51 | 1 | 25 | 1 | 25 | 3/8 |
| GJS-3 | 2/0 Sol.-250 MCM | .365- .575 | 2 | 51 | 1 7/8 | 47 | 2 1/2 | 64 | 1 5/16 | 33 | 1 5/16 | 33 | 1/2 |
| GJS-4 | 300-500 MCM | .634- .815 | 2 1/2 | 64 | 2 3/8 | 60 | 2 1/2 | 64 | 1 3/8 | 34 | 1 1/2 | 38 | 1/2 |
| GJS-5 | 500-750 MCM | .815- .999 | 3 1/4 | 82 | 2 3/4 | 70 | 3 | 76 | 1 9/16 | 39 | 1 3/4 | 44 | 5/8 |
| GJS-6 | 750-1000 MCM | .999-1.153 | 3 5/8 | 92 | 2 7/8 | 73 | 3 | 76 | 1 9/16 | 39 | 2 | 51 | 5/8 |
| GJS-7 | 1000-1250 MCM | 1.153-1.290 | 4 | 102 | 3 | 76 | 3 1/2 | 89 | 1 3/4 | 44 | 2 1/4 | 57 | 5/8 |

‡For conversion to metric range, see page 175.



BRONZE STUD CONNECTOR • TYPE SLB & SSLB

Stud to single or multiple bus bar vertical take off

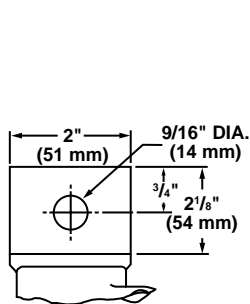
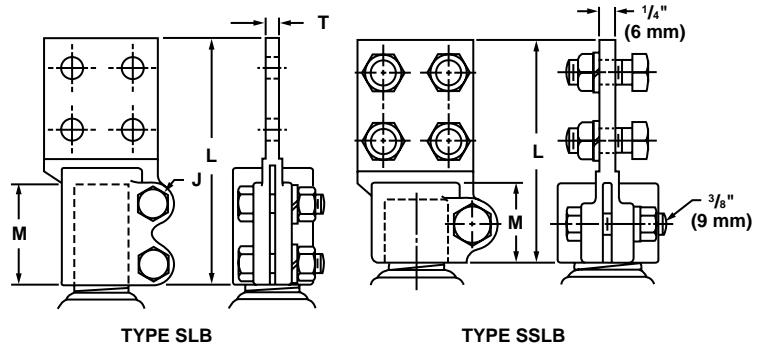
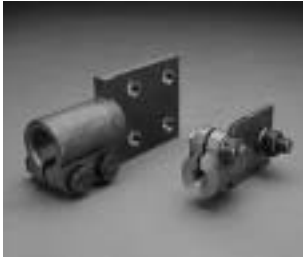


FIG. 1
(SUFFIX-S)

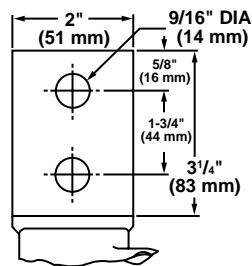


FIG. 2
(SUFFIX-D)

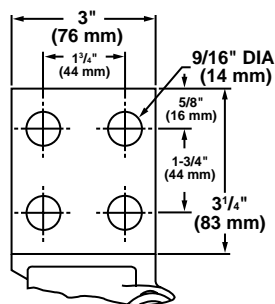


FIG. 3
(SUFFIX-F)

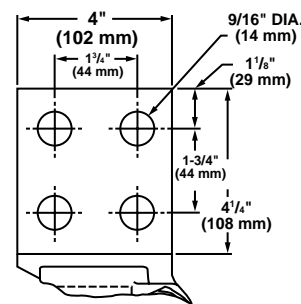
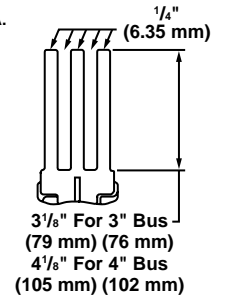


FIG. 4
(SUFFIX-E)



MULTI-TONGUE
(ILLUSTRATION 3 BAR)

TYPE SLB

Double bolt clamping.

Complete connector cast in one piece from high copper content alloy.

Furnished with silicon bronze bolts, nuts and lockwashers.

TYPE SSLB

Single bolt clamping of stud is suitable for normal requirements.

Pads are 1/4 inch thick and mounting holes are to NEMA standards.

Mounting hardware is supplied for mounting bars to pad of connector.

| Catalog Number | Stud Diameter No. Threads | No. Bars | Fig. No. | Approximate Dimensions | | | | | | |
|----------------|------------------------------|----------|----------|------------------------|-----|-----|------|-----|-------|----|
| | | | | L | | T | | J | M | |
| | | | | in | mm | in | mm | in | in | mm |
| SLB-0513-D | 1/2-13 | 1 | 2 | 5 1/4 | 133 | 1/4 | 6.35 | 3/8 | 1 3/4 | 44 |
| SLB-0513-F | 1/2-13 | 1 | 3 | 5 1/4 | 133 | 1/4 | 6.35 | 3/8 | 1 3/4 | 44 |
| SLB-0611-D | 5/8-11 | 1 | 2 | 5 1/4 | 133 | 1/4 | 6.35 | 3/8 | 1 3/4 | 44 |
| SLB-0611-F | 5/8-11 | 1 | 3 | 5 1/4 | 133 | 1/4 | 6.35 | 3/8 | 1 3/4 | 44 |
| SLB-0716-D | 3/4-16 | 1 | 2 | 5 1/4 | 133 | 1/4 | 6.35 | 3/8 | 1 3/4 | 44 |
| SLB-0716-F | 3/4-16 | 1 | 3 | 5 1/4 | 133 | 1/4 | 6.35 | 3/8 | 1 3/4 | 44 |
| SLB-1014-D | 1 -14 | 1 | 2 | 6 | 152 | 3/8 | 9.52 | 1/2 | 2 1/4 | 57 |
| SLB-1014-F | 1 -14 | 1 | 3 | 6 | 152 | 3/8 | 9.52 | 1/2 | 2 1/4 | 57 |
| SLB-1014-E | 1 -14 | 1 | 4 | 7 | 178 | 3/8 | 9.52 | 1/2 | 2 1/4 | 57 |
| SLB-1014-2D | 1 -14 | 2 | 2 | 5 7/8 | 149 | 1/4 | 6.35 | 1/2 | 2 1/4 | 57 |
| SLB-1014-2F | 1 -14 | 2 | 3 | 5 7/8 | 149 | 1/4 | 6.35 | 1/2 | 2 1/4 | 57 |
| SLB-1014-2E | 1 -14 | 2 | 4 | 6 7/8 | 174 | 1/4 | 6.35 | 1/2 | 2 1/4 | 57 |
| SLB-1112-D | 1 1/8-12 | 1 | 2 | 6 | 152 | 3/8 | 9.52 | 1/2 | 2 1/4 | 57 |
| SLB-1112-F | 1 1/8-12 | 1 | 3 | 6 | 152 | 3/8 | 9.52 | 1/2 | 2 1/4 | 57 |
| SLB-1112-E | 1 1/8-12 | 1 | 4 | 7 | 178 | 3/8 | 9.52 | 1/2 | 2 1/4 | 57 |
| SLB-1112-2D | 1 1/8-12 | 2 | 2 | 5 7/8 | 149 | 1/4 | 6.35 | 1/2 | 2 1/4 | 57 |
| SLB-1112-2F | 1 1/8-12 | 2 | 3 | 5 7/8 | 149 | 1/4 | 6.35 | 1/2 | 2 1/4 | 57 |
| SLB-1112-2E | 1 1/8-12 | 2 | 4 | 6 7/8 | 174 | 1/4 | 6.35 | 1/2 | 2 1/4 | 57 |

BRONZE STUD CONNECTOR • TYPE SLB

Continued from preceding page

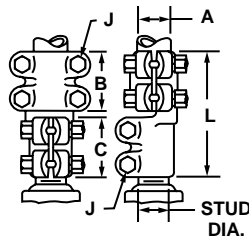
| Catalog Number | Stud Diameter No. Threads in | No. Bars | Fig. No. | Approximate Dimensions | | | | | | |
|----------------|------------------------------------|----------|----------|------------------------|-----|-----|-------|-----|---------|----|
| | | | | L | | T | | J | M | |
| | | | | in | mm | in | mm | in | in | mm |
| SLB-1212-D | 1 1/4-12 | 1 | 2 | 6 1/2 | 165 | 3/8 | 9.52 | 1/2 | 2 3/4 | 70 |
| SLB-1212-F | 1 1/4-12 | 1 | 3 | 6 1/2 | 165 | 3/8 | 9.52 | 1/2 | 2 3/4 | 70 |
| SLB-1212-E | 1 1/4-12 | 1 | 4 | 7 1/2 | 191 | 3/8 | 9.52 | 1/2 | 2 3/4 | 70 |
| SLB-1212-2D | 1 1/4-12 | 2 | 2 | 6 3/8 | 161 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-1212-2F | 1 1/4-12 | 2 | 3 | 6 3/8 | 161 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-1212-2E | 1 1/4-12 | 2 | 4 | 7 3/8 | 187 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-1512-D | 1 1/2-12 | 1 | 2 | 6 1/2 | 165 | 3/8 | 9.52 | 1/2 | 2 3/4 | 70 |
| SLB-1512-F | 1 1/2-12 | 1 | 3 | 6 1/2 | 165 | 3/8 | 9.52 | 1/2 | 2 3/4 | 70 |
| SLB-1512-E | 1 1/2-12 | 1 | 4 | 7 1/2 | 191 | 3/8 | 9.52 | 1/2 | 2 3/4 | 70 |
| SLB-1512-2D | 1 1/2-12 | 2 | 2 | 6 3/8 | 161 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-1512-2F | 1 1/2-12 | 2 | 3 | 6 3/8 | 161 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-1512-2E | 1 1/2-12 | 2 | 4 | 7 3/8 | 187 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-1512-3D | 1 1/2-12 | 3 | 2 | 6 3/8 | 161 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-1512-3F | 1 1/2-12 | 3 | 3 | 6 3/8 | 161 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-1512-3E | 1 1/2-12 | 3 | 4 | 7 3/8 | 187 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-2012-F | 2 -12 | 1 | 3 | 6 3/8 | 161 | 1/2 | 12.70 | 1/2 | 2 11/16 | 68 |
| SLB-2012-E | 2 -12 | 1 | 4 | 7 3/8 | 187 | 1/2 | 12.70 | 1/2 | 2 11/16 | 68 |
| SLB-2012-2F | 2 -12 | 2 | 3 | 6 1/4 | 158 | 1/4 | 6.35 | 1/2 | 2 11/16 | 68 |
| SLB-2012-2E | 2 -12 | 2 | 4 | 7 1/4 | 184 | 1/4 | 6.35 | 1/2 | 2 11/16 | 68 |
| SLB-2012-3F | 2 -12 | 3 | 3 | 6 1/4 | 158 | 1/4 | 6.35 | 1/2 | 2 11/16 | 68 |
| SLB-2012-3E | 2 -12 | 3 | 4 | 7 1/4 | 184 | 1/4 | 6.35 | 1/2 | 2 11/16 | 68 |
| SLB-2512-F | 2 1/2-12 | 1 | 3 | 6 5/8 | 168 | 1/2 | 12.70 | 1/2 | 2 3/4 | 70 |
| SLB-2512-E | 2 1/2-12 | 1 | 4 | 7 5/8 | 194 | 1/2 | 12.70 | 1/2 | 2 3/4 | 70 |
| SLB-2512-2F | 2 1/2-12 | 2 | 3 | 6 1/2 | 165 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-2512-2E | 2 1/2-12 | 2 | 4 | 7 1/2 | 191 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-2512-3F | 2 1/2-12 | 3 | 3 | 6 1/2 | 165 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-2512-3E | 2 1/2-12 | 3 | 4 | 7 1/2 | 191 | 1/4 | 6.35 | 1/2 | 2 3/4 | 70 |
| SLB-3012-F | 3 -12 | 1 | 3 | 7 1/8 | 181 | 3/4 | 19.05 | 5/8 | 3 1/4 | 83 |
| SLB-3012-E | 3 -12 | 1 | 4 | 8 1/8 | 206 | 3/4 | 19.05 | 5/8 | 3 1/4 | 83 |
| SLB-3012-2F | 3 -12 | 2 | 3 | 7 | 178 | 1/4 | 6.35 | 5/8 | 3 1/4 | 83 |
| SLB-3012-2E | 3 -12 | 2 | 4 | 8 | 203 | 1/4 | 6.35 | 5/8 | 3 1/4 | 83 |
| SLB-3012-3F | 3 -12 | 3 | 3 | 7 | 178 | 1/4 | 6.35 | 5/8 | 3 1/4 | 83 |
| SLB-3012-3E | 3 -12 | 3 | 4 | 8 | 203 | 1/4 | 6.35 | 5/8 | 3 1/4 | 83 |
| SLB-3512-F | 3 1/2-12 | 1 | 3 | 7 1/8 | 181 | 3/4 | 19.05 | 5/8 | 3 1/4 | 83 |
| SLB-3512-E | 3 1/2-12 | 1 | 4 | 8 1/8 | 206 | 3/4 | 19.05 | 5/8 | 3 1/4 | 83 |
| SLB-3512-2F | 3 1/2-12 | 2 | 3 | 7 | 178 | 1/4 | 6.35 | 5/8 | 3 1/4 | 83 |
| SLB-3512-2E | 3 1/2-12 | 2 | 4 | 8 | 203 | 1/4 | 6.35 | 5/8 | 3 1/4 | 83 |
| SLB-3512-3F | 3 1/2-12 | 3 | 3 | 7 | 178 | 1/4 | 6.35 | 5/8 | 3 1/4 | 83 |
| SLB-3512-3E | 3 1/2-12 | 3 | 4 | 8 | 203 | 1/4 | 6.35 | 5/8 | 3 1/4 | 83 |
| SLB-4012-2E | 4 -12 | 2 | 4 | 9 1/4 | 235 | 1/4 | 6.35 | 5/8 | 3 3/4 | 95 |
| SLB-4012-3F | 4 -12 | 3 | 3 | 8 1/4 | 209 | 1/4 | 6.35 | 5/8 | 3 3/4 | 95 |
| SLB-4012-3E | 4 -12 | 3 | 4 | 9 1/4 | 235 | 1/4 | 6.35 | 5/8 | 3 3/4 | 95 |
| SLB-4012-4E | 4 -12 | 4 | 4 | 9 1/4 | 235 | 1/4 | 6.35 | 5/8 | 3 3/4 | 95 |

TYPE SSLB • SINGLE BOLT CLAMPING

| Catalog Number | Stud Diameter No. Threads in | Fig. No. | Approximate Dimensions | | | |
|----------------|------------------------------------|----------|------------------------|-----|-------|----|
| | | | L | | M | |
| | | | in | mm | in | mm |
| SSLB-0513-S | 1/2-13 | 1 | 4 | 102 | 1 1/2 | 38 |
| SSLB-0513-D | 1/2-13 | 2 | 5 1/4 | 133 | 1 1/2 | 38 |
| SSLB-0611-S | 5/8-11 | 1 | 4 1/4 | 108 | 1 1/2 | 38 |
| SSLB-0611-D | 5/8-11 | 2 | 5 1/4 | 133 | 1 1/2 | 38 |
| SSLB-0716-S | 3/4-16 | 1 | 3 7/8 | 98 | 1 1/2 | 38 |
| SSLB-0716-D | 3/4-16 | 2 | 5 | 127 | 1 1/2 | 38 |
| SSLB-1014-S | 1 -14 | 1 | 4 | 102 | 1 1/2 | 38 |
| SSLB-1014-D | 1 -14 | 2 | 5 | 127 | 1 1/2 | 38 |
| SSLB-1112-D | 1 1/8-12 | 2 | 5 3/8 | 136 | 1 1/2 | 38 |
| SSLB-1112-F | 1 1/8-12 | 3 | 5 1/4 | 133 | 1 1/2 | 38 |
| SSLB-1212-D | 1 1/4-12 | 2 | 5 1/8 | 130 | 1 1/2 | 38 |
| SSLB-1212-F | 1 1/4-12 | 3 | 5 1/4 | 133 | 1 1/2 | 38 |
| SSLB-1512-D | 1 1/2-12 | 2 | 5 1/4 | 133 | 1 1/2 | 38 |
| SSLB-1512-F | 1 1/2-12 | 3 | 5 1/8 | 130 | 1 1/2 | 38 |

BRONZE STUD CONNECTOR • TYPE TS

Stud to tube vertical take off



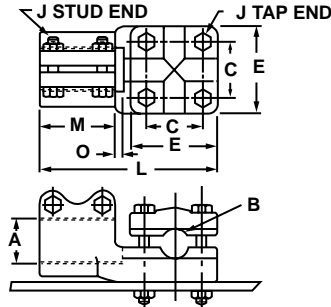
Made from high copper content alloy.

Stud contact tapped, but can be supplied plain and bored to size.
Number of threads other than listed supplied at no extra cost.
Furnished with silicon bronze bolts, nuts and lockwashers.

| Catalog Number | Stud Diameter No. Threads | Approximate Dimensions | | | | | | | | |
|----------------|------------------------------|------------------------|---------------------------------|----|---------------------------------|----|-----|---------------------------------|-----|----|
| | | A IPS | | B | | C | | J | L | |
| | | in | in | in | mm | in | mm | in | in | mm |
| TS-0513-05 | 1/2-13 | 1/2 | 1 ¹⁵ / ₁₆ | 49 | 1 ³ / ₈ | 34 | 3/8 | 3 1/2 | 89 | |
| TS-0513-07 | 1/2-13 | 3/4 | 1 ¹⁵ / ₁₆ | 49 | 1 ⁷ / ₈ | 47 | 3/8 | 3 ¹⁵ / ₁₆ | 100 | |
| TS-0513-10 | 1/2-13 | 1 | 1 ¹⁵ / ₁₆ | 49 | 1 ⁷ / ₈ | 47 | 3/8 | 3 ¹⁵ / ₁₆ | 100 | |
| TS-0716-05 | 3/4-16 | 1/2 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 3 ¹⁵ / ₁₆ | 100 | |
| TS-0716-07 | 3/4-16 | 3/4 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ¹ / ₁₆ | 104 | |
| TS-0716-10 | 3/4-16 | 1 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ¹ / ₁₆ | 104 | |
| TS-0716-12 | 3/4-16 | 1 1/4 | 2 ³ / ₁₆ | 56 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ⁵ / ₁₆ | 110 | |
| TS-1014-05 | 1 -14 | 1/2 | 1 ¹⁵ / ₁₆ | 49 | 1 ⁷ / ₈ | 47 | 3/8 | 4 ¹ / ₈ | 105 | |
| TS-1014-07 | 1 -14 | 3/4 | 1 ¹⁵ / ₁₆ | 49 | 1 ⁷ / ₈ | 47 | 3/8 | 4 | 102 | |
| TS-1014-10 | 1 -14 | 1 | 1 ¹⁵ / ₁₆ | 49 | 1 ⁷ / ₈ | 47 | 3/8 | 4 | 102 | |
| TS-1014-12 | 1 -14 | 1 1/4 | 2 ¹ / ₈ | 54 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ³ / ₈ | 111 | |
| TS-1014-15 | 1 -14 | 1 1/2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ⁵ / ₈ | 143 | |
| TS-1014-20 | 1 -14 | 2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ⁵ / ₈ | 143 | |
| TS-1112-05 | 1 1/8-12 | 1/2 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ³ / ₁₆ | 107 | |
| TS-1112-07 | 1 1/8-12 | 3/4 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ¹ / ₈ | 105 | |
| TS-1112-10 | 1 1/8-12 | 1 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ¹ / ₄ | 108 | |
| TS-1112-12 | 1 1/8-12 | 1 1/4 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ¹ / ₂ | 140 | |
| TS-1112-15 | 1 1/8-12 | 1 1/2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ⁵ / ₈ | 143 | |
| TS-1112-20 | 1 1/8-12 | 2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ⁷ / ₈ | 149 | |
| TS-1212-05 | 1 1/4-12 | 1/2 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ³ / ₁₆ | 107 | |
| TS-1212-07 | 1 1/4-12 | 3/4 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ¹ / ₈ | 105 | |
| TS-1212-10 | 1 1/4-12 | 1 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ¹ / ₄ | 108 | |
| TS-1212-12 | 1 1/4-12 | 1 1/4 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ¹ / ₂ | 140 | |
| TS-1212-15 | 1 1/4-12 | 1 1/2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ⁵ / ₈ | 143 | |
| TS-1212-20 | 1 1/4-12 | 2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ⁷ / ₈ | 149 | |
| TS-1512-07 | 1 1/2-12 | 3/4 | 1 ¹⁵ / ₁₆ | 49 | 2 | 51 | 3/8 | 4 ¹ / ₄ | 108 | |
| TS-1512-10 | 1 1/2-12 | 1 | 1 ¹⁵ / ₁₆ | 49 | 2 | 51 | 3/8 | 4 ¹ / ₄ | 108 | |
| TS-1512-12 | 1 1/2-12 | 1 1/4 | 2 ⁵ / ₈ | 67 | 2 ⁵ / ₈ | 67 | 1/2 | 5 ¹ / ₂ | 140 | |
| TS-1512-15 | 1 1/2-12 | 1 1/2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ⁵ / ₈ | 143 | |
| TS-1512-20 | 1 1/2-12 | 2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ⁵ / ₈ | 143 | |
| TS-1512-25 | 1 1/2-12 | 2 1/2 | 2 ³ / ₄ | 70 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ¹¹ / ₁₆ | 144 | |
| TS-2012-07 | 2 -12 | 3/4 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ⁵ / ₁₆ | 110 | |
| TS-2012-10 | 2 -12 | 1 | 1 ¹⁵ / ₁₆ | 49 | 1 ¹⁵ / ₁₆ | 49 | 3/8 | 4 ⁵ / ₁₆ | 110 | |
| TS-2012-12 | 2 -12 | 1 1/4 | 2 ⁵ / ₈ | 67 | 2 ³ / ₄ | 70 | 1/2 | 5 ⁵ / ₈ | 143 | |
| TS-2012-15 | 2 -12 | 1 1/2 | 2 ¹¹ / ₁₆ | 68 | 2 ¹¹ / ₁₆ | 68 | 1/2 | 5 ¹¹ / ₁₆ | 144 | |
| TS-2012-20 | 2 -12 | 2 | 2 ¹¹ / ₁₆ | 68 | 2 ³ / ₄ | 70 | 1/2 | 5 ¹¹ / ₁₆ | 144 | |
| TS-2012-25 | 2 -12 | 2 1/2 | 2 ³ / ₄ | 70 | 2 ³ / ₄ | 70 | 1/2 | 5 ³ / ₄ | 146 | |
| TS-2212-10 | 2 1/4-12 | 1 | 1 ¹⁵ / ₁₆ | 49 | 2 ³ / ₁₆ | 56 | 3/8 | 4 ¹ / ₂ | 115 | |
| TS-2212-12 | 2 1/4-12 | 1 1/4 | 2 ⁵ / ₈ | 67 | 2 ³ / ₄ | 70 | 1/2 | 5 ⁷ / ₈ | 149 | |
| TS-2212-15 | 2 1/4-12 | 1 1/2 | 2 ¹¹ / ₁₆ | 68 | 2 ³ / ₄ | 70 | 1/2 | 6 | 152 | |
| TS-2212-20 | 2 1/4-12 | 2 | 2 ¹¹ / ₁₆ | 68 | 2 ³ / ₄ | 70 | 1/2 | 6 | 152 | |
| TS-2212-25 | 2 1/4-12 | 2 1/2 | 2 ³ / ₄ | 70 | 2 ³ / ₄ | 70 | 1/2 | 5 ³ / ₄ | 146 | |
| TS-2512-10 | 2 1/2-12 | 1 | 1 ¹⁵ / ₁₆ | 49 | 2 ³ / ₁₆ | 56 | 3/8 | 4 ¹¹ / ₁₆ | 119 | |
| TS-2512-12 | 2 1/2-12 | 1 1/4 | 2 ⁵ / ₈ | 67 | 2 ³ / ₄ | 70 | 1/2 | 5 ¹³ / ₁₆ | 148 | |
| TS-2512-15 | 2 1/2-12 | 1 1/2 | 2 ⁵ / ₈ | 67 | 2 ³ / ₄ | 70 | 1/2 | 5 ¹³ / ₁₆ | 148 | |
| TS-2512-20 | 2 1/2-12 | 2 | 2 ¹¹ / ₁₆ | 68 | 2 ³ / ₄ | 70 | 1/2 | 5 ⁷ / ₈ | 149 | |
| TS-2512-25 | 2 1/2-12 | 2 1/2 | 2 ³ / ₄ | 70 | 2 ³ / ₄ | 70 | 1/2 | 5 ¹³ / ₁₆ | 148 | |
| TS-2512-30 | 2 1/2-12 | 3 | 3 ³ / ₈ | 85 | 3 ¹ / ₄ | 82 | 5/8 | 7 | 178 | |
| TS-3010-15 | 3 -10 | 1 1/2 | 2 ³ / ₄ | 70 | 2 ³ / ₄ | 70 | 1/2 | 6 ¹ / ₁₆ | 154 | |
| TS-3010-20 | 3 -10 | 2 | 2 ³ / ₄ | 70 | 2 ³ / ₄ | 70 | 1/2 | 6 ¹ / ₁₆ | 154 | |
| TS-3010-25 | 3 -10 | 2 1/2 | 2 ³ / ₄ | 70 | 2 ³ / ₄ | 70 | 1/2 | 6 ¹ / ₁₆ | 154 | |
| TS-3010-30 | 3 -10 | 3 | 3 ³ / ₈ | 85 | 3 ¹ / ₄ | 82 | 5/8 | 7 | 178 | |
| TS-3010-35 | 3 -10 | 3 1/2 | 3 ¹ / ₄ | 82 | 3 ¹ / ₄ | 82 | 5/8 | 7 | 178 | |
| TS-3010-40 | 3 -10 | 4 | 3 ¹ / ₄ | 82 | 3 ¹ / ₄ | 82 | 5/8 | 7 | 178 | |

BRONZE STUD CONNECTOR • TYPE CSR

Stud to cable, tube, or flat bar vertical or horizontal take off



Made from high copper content alloy.

Furnished with silicon bronze bolts, nuts and lock washers.

Cap on tap end can be rotated to utilize two grooves which accommodate a wide range of cable and a limited range of IPS.

Connector may be mounted directly to flat bar, if necessary, as shown in line drawing at right.

Stud contact is tapped, but can be supplied plain and bored to size.

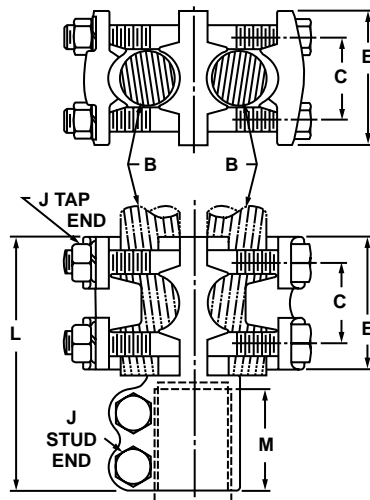
| Catalog Number | A | | B Conductor Range | | | |
|----------------|------------------------------|--------------|-----------------------|-------------------------|------------------|-------------------------|
| | Stud Diameter No. Threads | IPS Range | Small Groove Range | Wire Diameter Range‡ | | Wire Diameter Range‡ |
| | | | | Large Groove Range | | |
| in | in | | in | | in | |
| CSR-0513-025 | 1/2-13 | - | 6 Sol.-1 Str. | .162- .332 | 1 Str.-250 MCM | .332- .575 |
| CSR-0716-025 | 3/4-16 | - | 6 Sol.-1 Str. | .162- .332 | 1 Str.-250 MCM | .332- .575 |
| CSR-0716-050 | 3/4-16 | 3/8-1/2 | 6 Sol.-4/0 Str. | .162- .528 | 4/0 Str.-500 MCM | .528- .815 |
| CSR-0716-100 | 3/4-16 | 3/8-3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1014-025 | 1 -14 | - | 6 Sol.-1 Str. | .162- .332 | 1 Str.-250 MCM | .332- .575 |
| CSR-1014-050 | 1 -14 | 3/8-1/2 | 6 Sol.-4/0 Str. | .162- .528 | 4/0 Str.-500 MCM | .528- .815 |
| CSR-1014-100 | 1 -14 | 3/8-3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1112-025 | 1 1/8-12 | - | 6 Sol.-1 Str. | .162- .332 | 1 Str.-250 MCM | .332- .575 |
| CSR-1112-050 | 1 1/8-12 | 3/8-1/2 | 6 Sol.-4/0 Str. | .162- .528 | 4/0 Str.-500 MCM | .528- .815 |
| CSR-1112-100 | 1 1/8-12 | 3/8-3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1212-100 | 1 1/4-12 | 3/8-3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1512-025 | 1 1/2-12 | - | 6 Sol.-1 Str. | .162- .332 | 1 Str.-250 MCM | .332- .575 |
| CSR-1512-050 | 1 1/2-12 | 3/8-1/2 | 6 Sol.-4/0 Str. | .162- .528 | 4/0 Str.-500 MCM | .528- .815 |
| CSR-1512-100 | 1 1/2-12 | 3/8-3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1512-200 | 1 1/2-12 | 3/8-1 1/4 | 4/0 Str.-900 MCM | .528-1.094 | 900-2000 MCM | 1.094-1.632 |
| CSR-2012-100 | 2 -12 | 3/8-3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-2012-200 | 2 -12 | 3/8-1 1/4 | 4/0 Str.-900 MCM | .528-1.094 | 900-2000 MCM | 1.094-1.632 |
| CSR-2512-200 | 2 1/2-12 | 3/8-1 1/4 | 4/0 Str.-900 MCM | .528-1.094 | 900-2000 MCM | 1.094-1.632 |
| CSR-3012-200 | 3 -12 | 3/8-1 1/4 | 4/0 Str.-900 MCM | .528-1.094 | 900-2000 MCM | 1.094-1.632 |

‡For conversion to metric range, see page 175.

| Catalog Number | Approximate Dimensions | | | | | | | | | | | |
|----------------|------------------------|----|-------|----|------------|-----------|---------|-----|-------|----|------|----|
| | C | | E | | J Stud End | J Tap End | L | | M | | O | |
| | in | mm | in | mm | in | in | in | mm | in | mm | in | mm |
| CSR-0513-025 | 1 1/8 | 28 | 1 7/8 | 47 | 3/8 | 3/8 | 3 7/8 | 98 | 1 3/4 | 44 | 1/8 | 3 |
| CSR-0716-025 | 1 1/8 | 28 | 1 7/8 | 47 | 3/8 | 3/8 | 3 7/8 | 98 | 1 3/4 | 44 | 1/8 | 3 |
| CSR-0716-050 | 1 3/8 | 34 | 2 1/8 | 54 | 3/8 | 3/8 | 4 1/8 | 105 | 1 3/4 | 44 | 1/8 | 3 |
| CSR-0716-100 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 3/8 | 136 | 2 1/4 | 57 | 1/8 | 3 |
| CSR-1014-025 | 1 1/8 | 28 | 1 7/8 | 47 | 3/8 | 3/8 | 3 7/8 | 98 | 1 3/4 | 44 | 1/8 | 3 |
| CSR-1014-050 | 1 3/8 | 34 | 2 1/8 | 54 | 3/8 | 3/8 | 4 1/8 | 105 | 1 3/4 | 44 | 1/8 | 3 |
| CSR-1014-100 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 3/8 | 136 | 2 1/4 | 57 | 1/8 | 3 |
| CSR-1112-025 | 1 1/8 | 28 | 1 7/8 | 47 | 3/8 | 3/8 | 4 7/16 | 113 | 2 1/4 | 57 | 3/16 | 5 |
| CSR-1112-050 | 1 3/8 | 34 | 2 1/8 | 54 | 3/8 | 3/8 | 4 11/16 | 119 | 2 1/4 | 57 | 3/16 | 5 |
| CSR-1112-100 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 7/16 | 138 | 2 1/4 | 57 | 3/16 | 5 |
| CSR-1212-100 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 7/16 | 138 | 2 1/4 | 57 | 3/16 | 5 |
| CSR-1512-025 | 1 1/8 | 28 | 1 7/8 | 47 | 1/2 | 3/8 | 4 7/16 | 113 | 2 1/4 | 57 | 3/16 | 5 |
| CSR-1512-050 | 1 3/8 | 34 | 2 1/8 | 54 | 1/2 | 3/8 | 4 11/16 | 119 | 2 1/4 | 57 | 3/16 | 5 |
| CSR-1512-100 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 7/16 | 138 | 2 1/4 | 57 | 3/16 | 5 |
| CSR-1512-200 | 2 3/8 | 60 | 3 3/8 | 85 | 1/2 | 1/2 | 5 15/16 | 151 | 2 1/4 | 57 | 3/16 | 5 |
| CSR-2012-100 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 15/16 | 151 | 2 3/4 | 70 | 3/16 | 5 |
| CSR-2012-200 | 2 3/8 | 60 | 3 3/8 | 85 | 1/2 | 1/2 | 6 7/16 | 163 | 2 3/4 | 70 | 3/16 | 5 |
| CSR-2512-200 | 2 3/8 | 60 | 3 3/8 | 85 | 1/2 | 1/2 | 6 7/16 | 163 | 2 3/4 | 70 | 3/16 | 5 |
| CSR-3012-200 | 2 3/8 | 60 | 3 3/8 | 85 | 1/2 | 1/2 | 6 7/16 | 163 | 2 3/4 | 70 | 3/16 | 5 |

BRONZE STUD CONNECTOR • TYPE CSR-2

Stud to two cables or two tubes vertical or horizontal take off



Made from high copper content alloy.

Furnished with silicon bronze bolts, nuts and lockwashers.

Caps on tap end can be rotated to utilize two grooves which accommodate a wide range of cable and a limited range of IPS.

The reversible caps can be rotated 90 degrees to provide straight or horizontal take-off.

Stud contact is tapped, but can be supplied plain and bored to size.

| Catalog Number | A Stud Diameter No. Threads in | B Conductor Range | | | | |
|----------------|-----------------------------------------|--------------------|-----------------------|-------------------------|------------------|-------------------------------|
| | | IPS Range in | Small Groove Range | Wire Diameter Range† | | Wire Diameter Range† in |
| | | | | Large Groove Range | | |
| CSR-0716-050-2 | 3/4-16 | 3/8- 1/2 | 6 Sol.-4/0 Str. | .162- .528 | 4/0 Str.-500 MCM | .528- .815 |
| CSR-0716-100-2 | 3/4-16 | 3/8- 3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1014-050-2 | 1 -14 | 3/8- 1/2 | 6 Sol.-4/0 Str. | .162- .528 | 4/0 Str.-500 MCM | .528- .815 |
| CSR-1014-100-2 | 1 -14 | 3/8- 3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1112-050-2 | 1 1/8-12 | 3/8- 1/2 | 6 Sol.-4/0 Str. | .162- .525 | 4/0 Str.-500 MCM | .528- .815 |
| CSR-1112-100-2 | 1 1/8-12 | 3/8- 3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1212-100-2 | 1 1/4-12 | 3/8- 3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1512-050-2 | 1 1/2-12 | 3/8- 1/2 | 6 Sol.-4/0 Str. | .162- .528 | 4/0 Str.-500 MCM | .528- .815 |
| CSR-1512-100-2 | 1 1/2-12 | 3/8- 3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-1512-200-2 | 1 1/2-12 | 3/8-1 1/4 | 4/0 Str.-900 MCM | .528-1.094 | 900-2000 MCM | 1.094-1.632 |
| CSR-2012-100-2 | 2 -12 | 3/8- 3/4 | 2 Sol.-350 MCM | .258- .682 | 350-1000 MCM | .682-1.153 |
| CSR-2012-200-2 | 2 -12 | 3/8-1 1/4 | 4/0 Str.-900 MCM | .528-1.094 | 900-2000 MCM | 1.094-1.632 |
| CSR-2512-200-2 | 2 1/2-12 | 3/8-1 1/4 | 4/0 Str.-900 MCM | .528-1.094 | 900-2000 MCM | 1.094-1.632 |
| CSR-3012-200-2 | 3 -12 | 3/8-1 1/4 | 4/0 Str.-900 MCM | .528-1.094 | 900-2000 MCM | 1.094-1.632 |

†For conversion to metric range, see page 175.

| Catalog Number | Approximate Dimensions | | | | | | | | | | | |
|----------------|------------------------|----|-------|----|------------|-----|-----------|-----|-------|----|----|----|
| | C | | E | | J Stud End | | J Tap End | | L | | M | |
| | in | mm | in | mm | in | in | in | in | in | mm | in | mm |
| CSR-0716-050-2 | 1 3/8 | 34 | 2 1/8 | 54 | 3/8 | 3/8 | 4 3/8 | 111 | 1 3/4 | 44 | | |
| CSR-0716-100-2 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 5/8 | 143 | 2 1/4 | 57 | | |
| CSR-1014-050-2 | 1 3/8 | 34 | 2 1/8 | 54 | 3/8 | 3/8 | 4 3/8 | 111 | 1 3/4 | 44 | | |
| CSR-1014-100-2 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 5/8 | 143 | 2 1/4 | 57 | | |
| CSR-1112-050-2 | 1 3/8 | 34 | 2 1/8 | 54 | 3/8 | 3/8 | 5 | 127 | 2 1/4 | 57 | | |
| CSR-1112-100-2 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 3/4 | 146 | 2 1/4 | 57 | | |
| CSR-1212-100-2 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 3/4 | 146 | 2 1/4 | 57 | | |
| CSR-1512-050-2 | 1 3/8 | 34 | 2 1/8 | 54 | 1/2 | 3/8 | 5 | 127 | 2 1/4 | 57 | | |
| CSR-1512-100-2 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 3/4 | 146 | 2 1/4 | 57 | | |
| CSR-1512-200-2 | 2 3/8 | 60 | 3 3/8 | 85 | 1/2 | 1/2 | 6 1/8 | 155 | 2 1/4 | 57 | | |
| CSR-2012-100-2 | 1 7/8 | 47 | 2 7/8 | 73 | 1/2 | 1/2 | 5 3/4 | 146 | 2 3/4 | 70 | | |
| CSR-2012-200-2 | 2 3/8 | 60 | 3 3/8 | 85 | 1/2 | 1/2 | 6 3/8 | 161 | 2 3/4 | 70 | | |
| CSR-2512-200-2 | 2 3/8 | 60 | 3 3/8 | 85 | 1/2 | 1/2 | 6 3/8 | 161 | 2 3/4 | 70 | | |
| CSR-3012-200-2 | 2 3/8 | 60 | 3 3/8 | 85 | 1/2 | 1/2 | 6 3/4 | 171 | 2 3/4 | 70 | | |

BRONZE TEE CONNECTOR • TYPES ABR AND ABRE

For tubing range to cable range

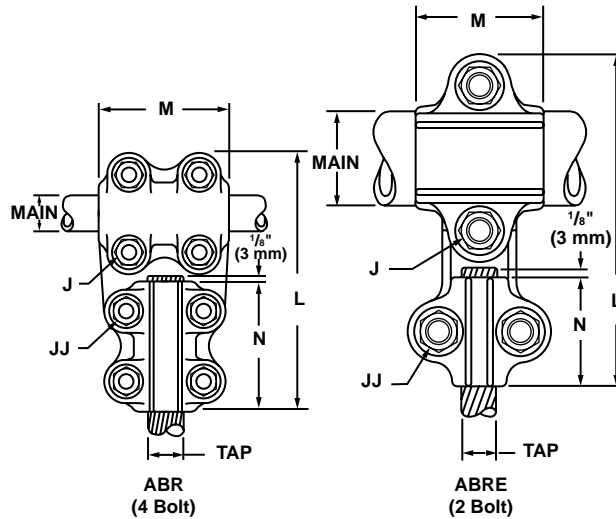


Cast of high copper content alloy. Furnished with silicon bronze bolts, nuts and lockwashers.

Bolt heads pocketed for single wrench installation. Rounded contours.

Independent clamping action on run and tap.

Reversible, range taking, high strength clamping elements.



FOUR BOLT CLAMPING

| Catalog Number | IPS Range (Main) | Cable Range (Tap) | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Bolt Diameter | | | |
|------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------|--------------------------|
| | | | | L | | M | | N | | J | JJ | | |
| | | | | in | mm | in | mm | in | mm | | | | |
| ABR-10-025 ABR-10-050 ABR-10-100 ABR-10-200 | 3/8-1 | 6 Sol.-250 MCM 1/0 Sol.-500 MCM 4/0 Sol.-1000 MCM 500-2000 MCM | .162-.575 .325-.815 .460-1.153 .815-1.632 | 5 ⁹ / ₁₆ 5 ⁹ / ₁₆ 6 ¹ / ₁₆ 6 ¹ / ₁₆ | 141 141 154 154 | 2 ¹ / ₄ 2 ¹ / ₄ 2 ¹ / ₄ 2 ¹ / ₄ | 57 57 57 57 | 2 ¹ / ₂ 2 ¹ / ₂ 3 3 | 64 64 76 76 | 1/2 1/2 1/2 1/2 | 1/2 1/2 1/2 1/2 | | |
| ABR-12-025 ABR-12-050 ABR-12-100 ABR-12-200 | | 1 ¹ / ₄ | 6 Sol.-250 MCM 1/0 Sol.-500 MCM 4/0 Sol.-1000 MCM 500-2000 MCM | .162-.575 .325-.815 .460-1.153 .815-1.632 | 6 6 6 ¹ / ₂ 6 ¹ / ₂ | 152 152 165 165 | 2 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄ | 70 70 70 70 | 2 ¹ / ₂ 2 ¹ / ₂ 3 3 | 64 64 76 76 | 1/2 1/2 1/2 1/2 | 1/2 1/2 1/2 1/2 | |
| ABR-15-025 ABR-15-050 ABR-15-100 ABR-15-200 | | | 1 ¹ / ₂ | 6 Sol.-250 MCM 1/0 Sol.-500 MCM 4/0 Sol.-1000 MCM 500-2000 MCM | .162-.575 .325-.815 .460-1.153 .815-1.632 | 6 ³ / ₄ 6 ³ / ₄ 7 ¹ / ₄ 7 ¹ / ₄ | 171 171 184 184 | 2 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄ | 70 70 70 70 | 2 ¹ / ₂ 2 ¹ / ₂ 3 3 | 64 64 76 76 | 1/2 1/2 1/2 1/2 | 1/2 1/2 1/2 1/2 |
| ABR-20-025 ABR-20-050 ABR-20-100 ABR-20-200 | | | | 2 | 6 Sol.-250 MCM 1/0 Sol.-500 MCM 4/0 Sol.-1000 MCM 500-2000 MCM | .162-.575 .325-.815 .460-1.153 .815-1.632 | 7 ³ / ₁₆ 7 ³ / ₁₆ 7 ¹¹ / ₁₆ 7 ¹¹ / ₁₆ | 183 183 195 195 | 2 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄ | 70 70 70 70 | 2 ¹ / ₂ 2 ¹ / ₂ 3 3 | 64 64 76 76 | 1/2 1/2 1/2 1/2 |
| ABR-25-025 ABR-25-050 ABR-25-100 ABR-25-200 | 2 ¹ / ₂ | | | | 6 Sol.-250 MCM 1/0 Sol.-500 MCM 4/0 Sol.-1000 MCM 500-2000 MCM | .163-.575 .325-.815 .460-1.153 .815-1.632 | 7 ¹¹ / ₁₆ 7 ¹¹ / ₁₆ 8 ³ / ₁₆ 8 ³ / ₁₆ | 195 195 208 208 | 2 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄ 2 ³ / ₄ | 70 70 70 70 | 2 ¹ / ₂ 2 ¹ / ₂ 3 3 | 64 64 76 76 | 1/2 1/2 1/2 1/2 |
| ABR-30-025 ABR-30-050 ABR-30-100 ABR-30-200 | | 3 | | | 6 Sol.-250 MCM 1/0 Sol.-500 MCM 4/0 Sol.-1000 MCM 500-2000 MCM | .162-.575 .325-.815 .460-1.153 .815-1.632 | 8 ³ / ₈ 8 ³ / ₈ 8 ⁷ / ₈ 8 ⁷ / ₈ | 213 213 225 225 | 3 ¹ / ₄ 3 ¹ / ₄ 3 ¹ / ₄ 3 ¹ / ₄ | 83 83 83 83 | 2 ¹ / ₂ 2 ¹ / ₂ 3 3 | 64 64 76 76 | 1/2 1/2 1/2 1/2 |

TWO BOLT CLAMPING

| | | | | | | | | | | | |
|-------------|-------|----------------|-----------|-------------------------------|-----|-------------------------------|----|-------------------------------|----|-----|-----|
| ABRE-10-025 | 3/8-1 | 6 Sol.-250 MCM | .162-.575 | 4 ¹ / ₈ | 105 | 1 ¹ / ₂ | 38 | 1 ¹ / ₂ | 38 | 3/8 | 3/8 |
|-------------|-------|----------------|-----------|-------------------------------|-----|-------------------------------|----|-------------------------------|----|-----|-----|

‡For conversion to metric range, see page 175.

BRONZE TEE CONNECTOR • TYPES ABRR AND ABRRE

For cable range to cable range

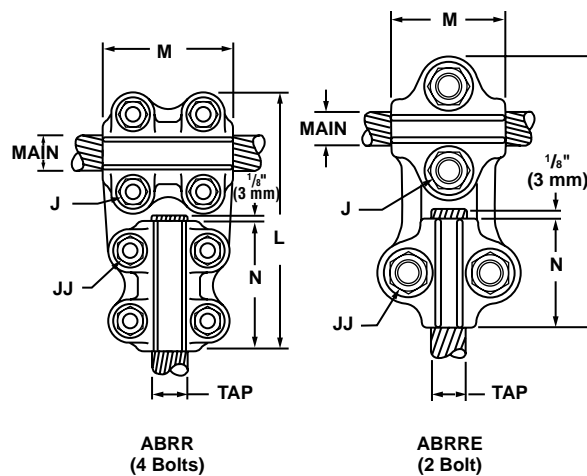


Cast of high copper content alloy. Furnished with silicon bronze bolts, nuts and lockwashers.

Bolt heads pocketed for single wrench installation. Rounded contours.

Independent clamping action on run and tap.

Reversible, range taking, high strength clamping elements.



FOUR BOLT CLAMPING

| Catalog Number | Cable Range (Main) | Wire Diameter Range | Cable Range (Tap) | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Bolt Diameter | |
|-------------------------------------------------------|--------------------|---------------------|--------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------|----------------------|--------------------------|--------------------------|
| | | | | | L | | M | | N | | J | JJ |
| | | | | | in | mm | in | mm | in | mm | | |
| ABRR-025 ABRR-025H | 6 Sol.-250 MCM | .162-.575 | 6 Sol.-250 MCM | .162-.575 | 4 ^{11/16} | 119 | 2 ^{1/2} | 64 | 2 ^{1/2} | 64 | 3/8 | 3/8 |
| | | | | | 5 ^{1/16} | 129 | 2 ^{1/2} | 64 | 2 ^{1/2} | 64 | 1/2 | 1/2 |
| ABRR-050025 ABRR-050025H ABRR-050 ABRR-050H | 1/0 Sol.-500 MCM | .325-.815 | 6 Sol.-250 MCM 6 Sol.-250 MCM 1/0 Sol.-500 MCM 1/0 Sol.-500 MCM | .162-.575 .162-.575 .325-.815 .325-.815 | 4 ^{7/8} 5 ^{1/4} 4 ^{7/8} 5 ^{1/4} | 124 133 124 133 | 2 ^{1/2} 2 ^{1/2} 2 ^{1/2} 2 ^{1/2} | 64 64 64 64 | 2 ^{1/2} 2 ^{1/2} 2 ^{1/2} 2 ^{1/2} | 64 64 64 64 | 3/8 1/2 3/8 1/2 | 3/8 1/2 3/8 1/2 |
| ABRR-100025 ABRR-100050 ABRR-100 | 4/0 Sol.-1000 MCM | .460-1.153 | 6 Sol.-250 MCM 1/0 Sol.-500 MCM 4/0 Sol.-1000 MCM | .162-.575 .325-.815 .460-1.153 | 5 ^{7/8} 5 ^{7/8} 6 ^{3/8} | 149 149 162 | 3 3 3 | 76 76 76 | 2 ^{1/2} 2 ^{1/2} 3 | 64 64 76 | 1/2 1/2 1/2 | 1/2 1/2 1/2 |
| ABRR-200025 ABRR-200050 ABRR-200100 ABRR-200 | 500-2000 MCM | .815-1.631 | 6 Sol.-250 MCM 1/0 Sol.-500 MCM 4/0 Sol.-1000 MCM 500-2000 MCM | .162-.575 .325-.815 .460-1.153 .815-1.631 | 6 ^{1/8} 6 ^{1/8} 6 ^{5/8} 6 ^{5/8} | 156 156 168 168 | 3 3 3 3 | 76 76 76 76 | 2 ^{1/2} 2 ^{1/2} 3 3 | 64 64 76 76 | 1/2 1/2 1/2 1/2 | 1/2 1/2 1/2 1/2 |

TWO BOLT CLAMPING

| | | | | | | | | | | | | |
|---------------|------------------|-----------|------------------|-----------|-------------------|-----|------------------|----|------------------|----|-----|-----|
| ABRRE-050 | 1/0 Sol.-500 MCM | .325-.815 | 1/0 Sol.-500 MCM | .325-.815 | 4 ^{5/16} | 110 | 1 ^{3/4} | 44 | 1 ^{3/4} | 44 | 3/8 | 3/8 |
| ABRRE-050-025 | 1/0 Sol.-500 MCM | .325-.815 | 6 Sol.-250 MCM | .162-.575 | 4 ^{1/16} | 103 | 1 ^{3/4} | 44 | 1 ^{1/2} | 38 | 3/8 | 3/8 |

‡For conversion to metric range, see page 175.

BRONZE RANGE TAKING COUPLERS AND REDUCERS • TYPE RM ALL-PURPOSE CONNECTOR

For joining a range of cables, tubing, and solid rod to make tee taps, couplers, elbows and parallel clamps



Cast of high copper content alloy. Furnished with silicon bronze bolts, nuts and lockwashers.

Bolt heads pocketed for single wrench installation.

Rounded contours.

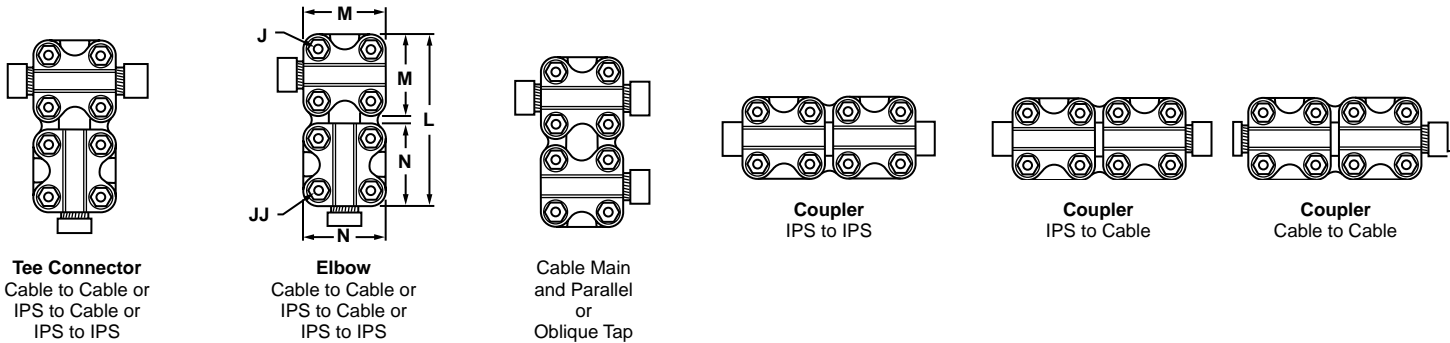
Independent clamping action on run and tap.

Reversible, range taking, high strength clamping elements.

Square clamp members can be mounted in either direction or reversed to take small wire, tubing or rod.

Bolt centers located in a square pattern to allow clamping caps to be placed for holding in either direction.

Cross-Groove design takes conductors from both sides, side and end, or both ends.



Tee Connector
Cable to Cable or
IPS to Cable or
IPS to IPS

Elbow
Cable to Cable or
IPS to Cable or
IPS to IPS

Cable Main
and Parallel
or
Oblique Tap

Coupler
IPS to IPS

Coupler
IPS to Cable

Coupler
Cable to Cable

| Catalog Number | Main | | | Tap | | |
|----------------|-----------|-------------------|----------------------|-----------|-------------------|----------------------|
| | IPS | Cable | Wire Diameter Range‡ | IPS | Cable | Wire Diameter Range‡ |
| | | | in | | | in |
| RM-080 | 1/4-3/4 | 2 Sol.-800 MCM | .258-1.031 | 1/4-3/4 | 2 Sol.-800 MCM | .258-1.031 |
| RM-085 | 1/4-3/4 | 6 Sol.-850 MCM | .162-1.050 | 1/4-3/4 | 6 Sol.-850 MCM | .162-1.050 |
| RM-150085 | 1/2-1 | 4/0 Sol.-1500 MCM | .460-1.412 | 1/4-3/4 | 6 Sol.-850 MCM | .162-1.050 |
| RM-150 | 1/2-1 | 4/0 Sol.-1500 MCM | .460-1.412 | 1/2-1 | 4/0 Sol.-1500 MCM | .460-1.412 |
| RM-200085 | 3/4-1 1/2 | 500-2000 MCM | .815-1.632 | 1/4-3/4 | 6 Sol.-850 MCM | .162-1.050 |
| RM-200150 | 3/4-1 1/2 | 500-2000 MCM | .815-1.632 | 1/2-1 | 4 Sol.-1500 MCM | .204-1.412 |
| RM-200 | 3/4-1 1/2 | 500-2000 MCM | .815-1.632 | 3/4-1 1/2 | 500-2000 MCM | .815-1.632 |

‡For conversion to metric range, see page 175.

| Catalog Number | Approximate Dimensions | | | | | | | |
|----------------|------------------------|-----|-------|----|-------|----|-----|-----|
| | L | | M | | N | | J | JJ |
| | in | mm | in | mm | in | mm | in | in |
| RM-080 | 4 5/8 | 117 | 2 1/4 | 57 | 2 1/4 | 57 | 3/8 | 3/8 |
| RM-085 | 6 1/8 | 156 | 3 | 76 | 3 | 76 | 1/2 | 1/2 |
| RM-150085 | 6 3/8 | 162 | 3 1/4 | 83 | 3 | 76 | 1/2 | 1/2 |
| RM-150 | 6 5/8 | 168 | 3 1/4 | 83 | 3 1/4 | 83 | 1/2 | 1/2 |
| RM-200085 | 6 5/8 | 168 | 3 1/2 | 89 | 3 | 76 | 1/2 | 1/2 |
| RM-200150 | 6 7/8 | 175 | 3 1/2 | 89 | 3 1/4 | 83 | 1/2 | 1/2 |
| RM-200 | 7 3/16 | 183 | 3 1/2 | 89 | 3 1/2 | 89 | 1/2 | 1/2 |

NOTE—Clamping members can be furnished tin or silver plated by adding “-TN” for tin and “-SV” for silver plating.
Example: RM-080-TN.

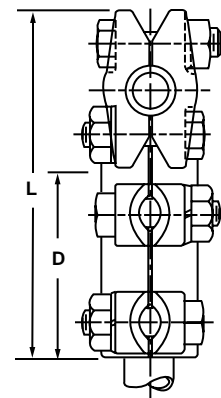
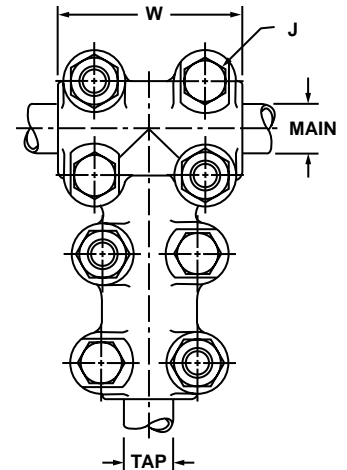
BRONZE TEE CONNECTOR • TYPE ABN

Heavy duty – for tube to tube



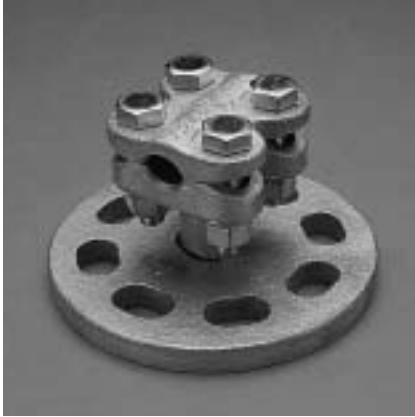
Heavy duty tee connectors with four bolts on both main and tap.
Cast of high copper content alloy. Furnished with silicon bronze bolts, nuts and lockwashers.
Bolt heads pocketed for single wrench installation.
Rounded contours.

| Catalog Number | IPS | | Approximate Dimensions | | | | | | |
|----------------|-------|-------|------------------------|-----|--------|-----|-------|-----|-----|
| | | | W | | L | | D | | J |
| | Main | Tap | in | mm | in | mm | in | mm | in |
| ABN-0707 | 3/4 | 3/4 | 2 1/2 | 64 | 5 3/4 | 146 | 2 1/2 | 64 | 1/2 |
| ABN-1005 | 1 | 1/2 | 2 1/2 | 64 | 6 | 152 | 2 1/2 | 64 | 1/2 |
| ABN-1007 | 1 | 3/4 | 2 1/2 | 64 | 6 | 152 | 2 1/2 | 64 | 1/2 |
| ABN-1010 | 1 | 1 | 2 1/2 | 64 | 6 | 152 | 2 1/2 | 64 | 1/2 |
| ABN-1205 | 1 1/4 | 1/2 | 2 3/4 | 70 | 6 1/8 | 156 | 2 1/2 | 64 | 1/2 |
| ABN-1207 | 1 1/4 | 3/4 | 2 3/4 | 70 | 6 1/8 | 156 | 2 1/2 | 64 | 1/2 |
| ABN-1210 | 1 1/4 | 1 | 2 3/4 | 70 | 6 1/8 | 156 | 2 1/2 | 64 | 1/2 |
| ABN-1212 | 1 1/4 | 1 1/4 | 2 3/4 | 70 | 6 3/8 | 162 | 2 3/4 | 70 | 1/2 |
| ABN-1505 | 1 1/2 | 1/2 | 2 3/4 | 70 | 6 1/2 | 165 | 2 1/2 | 64 | 1/2 |
| ABN-1507 | 1 1/2 | 3/4 | 2 3/4 | 70 | 6 1/2 | 165 | 2 1/2 | 64 | 1/2 |
| ABN-1510 | 1 1/2 | 1 | 2 3/4 | 70 | 6 1/2 | 165 | 2 1/2 | 64 | 1/2 |
| ABN-1512 | 1 1/2 | 1 1/4 | 2 3/4 | 70 | 6 3/4 | 171 | 2 3/4 | 70 | 1/2 |
| ABN-1515 | 1 1/2 | 1 1/2 | 2 3/4 | 70 | 6 3/4 | 171 | 2 3/4 | 70 | 1/2 |
| ABN-2005 | 2 | 1/2 | 2 3/4 | 70 | 6 3/4 | 171 | 2 1/2 | 64 | 1/2 |
| ABN-2007 | 2 | 3/4 | 2 3/4 | 70 | 6 3/4 | 171 | 2 1/2 | 64 | 1/2 |
| ABN-2010 | 2 | 1 | 2 3/4 | 70 | 6 3/4 | 171 | 2 1/2 | 64 | 1/2 |
| ABN-2012 | 2 | 1 1/4 | 2 3/4 | 70 | 7 | 178 | 2 3/4 | 70 | 1/2 |
| ABN-2015 | 2 | 1 1/2 | 2 3/4 | 70 | 7 | 178 | 2 3/4 | 70 | 1/2 |
| ABN-2020 | 2 | 2 | 2 3/4 | 70 | 7 | 178 | 2 3/4 | 70 | 1/2 |
| ABN-2507 | 2 1/2 | 3/4 | 2 3/4 | 70 | 7 1/2 | 191 | 2 1/2 | 64 | 1/2 |
| ABN-2510 | 2 1/2 | 1 | 2 3/4 | 70 | 7 1/2 | 191 | 2 1/2 | 64 | 1/2 |
| ABN-2512 | 2 1/2 | 1 1/4 | 2 3/4 | 70 | 7 3/4 | 197 | 2 3/4 | 70 | 1/2 |
| ABN-2515 | 2 1/2 | 1 1/2 | 2 3/4 | 70 | 7 3/4 | 197 | 2 3/4 | 70 | 1/2 |
| ABN-2520 | 2 1/2 | 2 | 2 3/4 | 70 | 7 3/4 | 197 | 2 3/4 | 70 | 1/2 |
| ABN-2525 | 2 1/2 | 2 1/2 | 3 1/4 | 83 | 8 1/4 | 210 | 3 1/4 | 83 | 1/2 |
| ABN-3007 | 3 | 3/4 | 2 1/2 | 64 | 8 1/4 | 210 | 2 1/2 | 64 | 1/2 |
| ABN-3010 | 3 | 1 | 2 1/2 | 64 | 8 1/4 | 210 | 2 1/2 | 64 | 1/2 |
| ABN-3012 | 3 | 1 1/4 | 2 3/4 | 70 | 8 1/2 | 216 | 2 3/4 | 70 | 1/2 |
| ABN-3015 | 3 | 1 1/2 | 2 3/4 | 70 | 8 1/2 | 216 | 2 3/4 | 70 | 1/2 |
| ABN-3020 | 3 | 2 | 2 3/4 | 70 | 8 1/2 | 216 | 2 3/4 | 70 | 1/2 |
| ABN-3025 | 3 | 2 1/2 | 3 1/4 | 83 | 9 | 229 | 3 1/4 | 83 | 1/2 |
| ABN-3030 | 3 | 3 | 3 1/2 | 89 | 9 3/4 | 248 | 3 1/2 | 89 | 5/8 |
| ABN-3507 | 3 1/2 | 3/4 | 2 1/2 | 64 | 8 3/4 | 222 | 2 1/2 | 64 | 1/2 |
| ABN-3510 | 3 1/2 | 1 | 2 1/2 | 64 | 8 3/4 | 222 | 2 1/2 | 64 | 1/2 |
| ABN-3512 | 3 1/2 | 1 1/4 | 2 3/4 | 70 | 9 | 229 | 2 3/4 | 70 | 1/2 |
| ABN-3515 | 3 1/2 | 1 1/2 | 2 3/4 | 70 | 9 | 229 | 2 3/4 | 70 | 1/2 |
| ABN-3520 | 3 1/2 | 2 | 2 3/4 | 70 | 9 | 229 | 2 3/4 | 70 | 1/2 |
| ABN-3525 | 3 1/2 | 2 1/2 | 3 1/4 | 83 | 9 3/4 | 248 | 3 1/4 | 83 | 1/2 |
| ABN-3530 | 3 1/2 | 3 | 3 1/2 | 89 | 10 | 254 | 3 1/2 | 89 | 5/8 |
| ABN-3535 | 3 1/2 | 3 1/2 | 3 1/2 | 89 | 10 | 254 | 3 1/2 | 89 | 5/8 |
| ABN-4007 | 4 | 3/4 | 2 1/2 | 64 | 9 1/2 | 241 | 2 1/2 | 64 | 1/2 |
| ABN-4010 | 4 | 1 | 2 1/2 | 64 | 9 1/2 | 241 | 2 1/2 | 64 | 1/2 |
| ABN-4012 | 4 | 1 1/4 | 2 3/4 | 70 | 9 3/4 | 248 | 2 3/4 | 70 | 1/2 |
| ABN-4015 | 4 | 1 1/2 | 2 3/4 | 70 | 9 3/4 | 248 | 2 3/4 | 70 | 1/2 |
| ABN-4020 | 4 | 2 | 2 3/4 | 70 | 9 3/4 | 248 | 2 3/4 | 70 | 1/2 |
| ABN-4025 | 4 | 2 1/2 | 3 1/4 | 83 | 10 1/4 | 260 | 3 1/4 | 83 | 1/2 |
| ABN-4030 | 4 | 3 | 3 1/2 | 89 | 11 | 279 | 3 1/2 | 89 | 5/8 |
| ABN-4040 | 4 | 4 | 4 | 102 | 11 1/2 | 292 | 4 | 102 | 5/8 |



BRONZE BUS SUPPORT CLAMP • TYPE BS

Tube to bolt circle



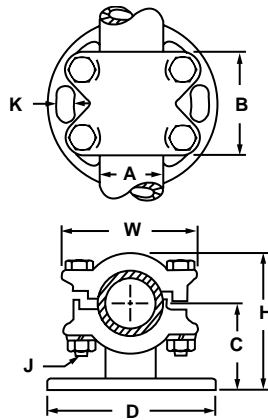
Made from high copper content alloy.

Installed for grip or slide fit by rotating clamping elements 180°.

Oval slots in base permit easy alignment.

Clamping bolts, nuts and lockwashers are of silicon bronze.

Mounting hardware is stainless steel. Cap screws and lockwashers furnished for cap mounting (standard). Bolts, nuts and lockwashers furnished for base mounting (suffix catalog number with "BM". Example: BS-05-3-BM).



3" BOLT CIRCLE BASE

| Catalog Number | IPS Size | Approximate Dimensions | | | | | | | | | | | | | | |
|----------------|----------|------------------------|-----|-------|----|--------|-----|-------|-----|---------|-----|-----|------|----|-------|-----|
| | | A | | B | | C | | D | | H | | J | K | | W | |
| | | in | mm | in | mm | in | mm | in | mm | in | mm | in | in | mm | in | mm |
| BS-05-3 | 1/2 | .840 | 21 | 2 | 51 | 2 | 51 | 4 1/4 | 108 | 2 3/4 | 70 | 3/8 | 9/16 | 14 | 2 3/8 | 60 |
| BS-07-3 | 3/4 | 1.050 | 27 | 2 | 51 | 2 | 51 | 4 1/4 | 108 | 2 3/4 | 70 | 3/8 | 9/16 | 14 | 2 5/8 | 67 |
| BS-10-3 | 1 | 1.315 | 33 | 2 | 51 | 2 1/8 | 54 | 4 1/4 | 108 | 3 | 76 | 3/8 | 9/16 | 14 | 2 7/8 | 73 |
| BS-12-3 | 1 1/4 | 1.660 | 42 | 2 5/8 | 67 | 2 3/8 | 60 | 4 1/4 | 108 | 3 3/8 | 86 | 1/2 | 9/16 | 14 | 3 5/8 | 92 |
| BS-15-3 | 1 1/2 | 1.900 | 48 | 2 3/4 | 70 | 2 7/16 | 62 | 4 1/4 | 108 | 3 5/8 | 92 | 1/2 | 9/16 | 14 | 3 7/8 | 98 |
| BS-20-3 | 2 | 2.375 | 60 | 2 3/4 | 70 | 2 9/16 | 65 | 4 1/4 | 108 | 4 1/16 | 103 | 1/2 | 9/16 | 14 | 4 1/2 | 114 |
| BS-25-3 | 2 1/2 | 2.875 | 73 | 2 3/4 | 70 | 3 1/16 | 78 | 4 1/4 | 108 | 4 3/4 | 121 | 1/2 | 9/16 | 14 | 5 | 127 |
| BS-30-3 | 3 | 3.500 | 89 | 3 1/4 | 83 | 3 5/8 | 92 | 4 1/4 | 108 | 5 11/16 | 144 | 5/8 | 9/16 | 14 | 6 1/8 | 156 |
| BS-35-3 | 3 1/2 | 4.000 | 102 | 3 1/4 | 83 | 4 | 102 | 4 1/4 | 108 | 6 5/16 | 160 | 5/8 | 9/16 | 14 | 6 5/8 | 168 |
| BS-40-3 | 4 | 4.500 | 114 | 3 1/4 | 83 | 4 1/4 | 108 | 4 1/4 | 108 | 6 13/16 | 173 | 5/8 | 9/16 | 14 | 7 1/8 | 181 |

5" BOLT CIRCLE BASE

| | | | | | | | | | | | | | | | | |
|---------|-------|-------|-----|-------|----|--------|-----|-------|-----|---------|-----|-----|--------|----|-------|-----|
| BS-05-5 | 1/2 | .840 | 21 | 2 | 51 | 2 1/16 | 52 | 6 3/8 | 162 | 2 13/16 | 71 | 3/8 | 1 1/16 | 17 | 2 3/8 | 60 |
| BS-07-5 | 3/4 | 1.050 | 27 | 2 | 51 | 2 1/16 | 52 | 6 3/8 | 162 | 2 13/16 | 71 | 3/8 | 1 1/16 | 17 | 2 5/8 | 67 |
| BS-10-5 | 1 | 1.315 | 33 | 2 | 51 | 2 3/16 | 56 | 6 3/8 | 162 | 3 1/16 | 78 | 3/8 | 1 1/16 | 17 | 2 7/8 | 73 |
| BS-12-5 | 1 1/4 | 1.660 | 42 | 2 5/8 | 67 | 2 3/8 | 60 | 6 3/8 | 162 | 3 7/16 | 87 | 1/2 | 1 1/16 | 17 | 3 5/8 | 92 |
| BS-15-5 | 1 1/2 | 1.900 | 48 | 2 3/4 | 70 | 2 7/16 | 62 | 6 3/8 | 162 | 3 11/16 | 94 | 1/2 | 1 1/16 | 17 | 3 7/8 | 98 |
| BS-20-5 | 2 | 2.375 | 60 | 2 3/4 | 70 | 2 5/8 | 67 | 6 3/8 | 162 | 4 1/8 | 105 | 1/2 | 1 1/16 | 17 | 4 1/2 | 114 |
| BS-25-5 | 2 1/2 | 2.875 | 73 | 2 3/4 | 70 | 3 1/16 | 78 | 6 3/8 | 162 | 4 13/16 | 122 | 1/2 | 1 1/16 | 17 | 5 | 127 |
| BS-30-5 | 3 | 3.500 | 89 | 3 1/4 | 83 | 3 5/8 | 92 | 6 3/8 | 162 | 5 3/4 | 146 | 5/8 | 1 1/16 | 17 | 6 1/8 | 156 |
| BS-35-5 | 3 1/2 | 4.000 | 102 | 3 1/4 | 83 | 4 | 102 | 6 3/8 | 162 | 6 3/8 | 162 | 5/8 | 1 1/16 | 17 | 6 5/8 | 168 |
| BS-40-5 | 4 | 4.500 | 114 | 3 1/4 | 83 | 4 1/4 | 108 | 6 3/8 | 162 | 6 7/8 | 175 | 5/8 | 1 1/16 | 17 | 7 1/8 | 181 |

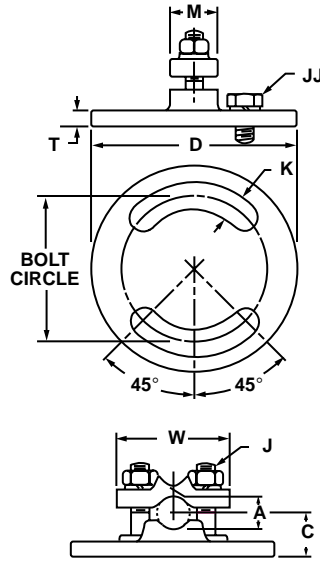
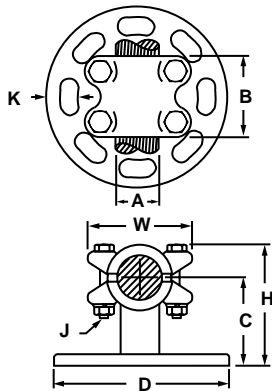
BRONZE BUS SUPPORT CLAMPS • TYPES BSR & BSR2B

Four and two bolt clamping tube or cable to bolt circle



BSR

BSR2B



Made from high copper content alloy.

Oval slots in base permit easy alignment. Type BSR, BSR2B-025-5, BSR2B-050-5 and BSR2B-200-5 have 6 slots as shown in photo. All other Type BSR2B have 2 elongated slots as in line drawing and photo.

Clamping bolts, nuts and lockwashers are of silicon bronze.

Mounting hardware is stainless steel. Cap screws and lockwashers furnished for cap mounting (standard). Bolts, nuts and lockwashers furnished for base mounting (suffix catalog number with "-BM". Example: BSR-1-BM).

| Catalog Number | IPS Range | Conductor Range | Wire Diameter Range† |
|----------------|-----------|-------------------|----------------------|
| | in | | in |
| BSR-1 | 1/8-1/2 | 6 Str.-500 MCM | .184- .840 |
| BSR-2 | 1/8-1/2 | 6 Str.-500 MCM | .184- .840 |
| BSR-5 | 1/4-1 | 4/0 Str.-1250 MCM | .528-1.315 |
| BSR-6 | 1/4-1 | 4/0 Str.-1250 MCM | .528-1.315 |
| BSR-9 | 3/4-1 1/2 | 850-2500 MCM | 1.050-1.900 |
| BSR-10 | 3/4-1 1/2 | 850-2500 MCM | 1.050-1.900 |
| BSR-11 | 1 1/4-2 | - | - |
| BSR-12 | 1 1/4-2 | - | - |

| Catalog Number | Approximate Dimensions | | | | | | | | | | | | | Bolt Circle Dia. | |
|----------------|------------------------|----|----------|----|-------|-----|----------|-----|-----|--------|----|---------|-----|------------------|-----|
| | B | | C (Max.) | | D | | H (Max.) | | J | K | | W | | in | mm |
| | in | mm | in | mm | in | mm | in | mm | in | in | mm | in | mm | | |
| BSR-1 | 2 3/4 | 70 | 2 | 51 | 4 1/4 | 108 | 3 3/16 | 81 | 3/8 | 9/16 | 14 | 2 3/16 | 56 | 3 | 76 |
| BSR-2 | 2 3/4 | 70 | 2 1/16 | 52 | 6 3/8 | 162 | 3 1/4 | 83 | 3/8 | 1 1/16 | 17 | 2 3/16 | 56 | 5 | 127 |
| BSR-5 | 3 | 76 | 2 1/8 | 54 | 4 1/4 | 108 | 3 5/8 | 92 | 3/8 | 9/16 | 14 | 2 11/16 | 68 | 3 | 76 |
| BSR-6 | 3 | 76 | 2 3/16 | 56 | 6 3/8 | 162 | 3 11/16 | 94 | 3/8 | 1 1/16 | 17 | 2 11/16 | 68 | 5 | 127 |
| BSR-9 | 3 7/8 | 98 | 2 7/16 | 62 | 4 1/4 | 108 | 4 3/16 | 106 | 1/2 | 9/16 | 14 | 3 11/16 | 94 | 3 | 76 |
| BSR-10 | 3 7/8 | 98 | 2 1/2 | 64 | 6 3/8 | 162 | 4 1/4 | 108 | 1/2 | 1 1/16 | 17 | 3 11/16 | 94 | 5 | 127 |
| BSR-11 | 2 7/8 | 73 | 2 9/16 | 65 | 4 1/4 | 108 | 4 5/16 | 110 | 1/2 | 9/16 | 14 | 4 3/16 | 108 | 3 | 76 |
| BSR-12 | 2 7/8 | 73 | 2 5/8 | 67 | 6 1/4 | 159 | 4 3/8 | 111 | 1/2 | 1 1/16 | 17 | 4 3/16 | 108 | 5 | 127 |

3" BOLT CIRCLE BASE

TYPE BSR2B

| Catalog Number | IPS Size | Wire Range | Wire Diameter Range† | Approximate Dimensions | | | | | | | | | | | | | |
|----------------|-----------|------------------|----------------------|------------------------|-----|--------|-----|-------|-----|-------|----|------|----|-----|-----|-----------------|----|
| | | | | D | | C | | W | | M | | T | | J | JJ | K Width of Slot | |
| | | | | in | mm | in | mm | in | mm | in | mm | in | mm | in | in | in | mm |
| BSR2B-025-3 | - | 6 Sol.-250 MCM | .162- .575 | 4 1/4 | 108 | 1 3/16 | 21 | 2 1/4 | 57 | 1 | 25 | 5/16 | 8 | 3/8 | 1/2 | 9/16 | 14 |
| BSR2B-050-3 | - | 1/0 Sol.-500 MCM | .325- .815 | 4 1/4 | 108 | 1 3/8 | 35 | 2 1/4 | 57 | 1 3/8 | 35 | 5/16 | 8 | 3/8 | 1/2 | 9/16 | 14 |
| BSR2B-200-3 | 1/2-1 1/2 | 500-2000 MCM | .500-1.824 | 4 1/4 | 108 | 2 3/32 | 53 | 3 7/8 | 98 | 1 1/4 | 32 | 3/8 | 9 | 1/2 | 1/2 | 9/16 | 14 |
| BSR2B-20-3 | 2 | - | - | 4 1/4 | 108 | 2 3/16 | 56 | 4 1/2 | 114 | 1 1/2 | 38 | 3/8 | 9 | 1/2 | 1/2 | 9/16 | 14 |
| BSR2B-25-3 | 2 1/2 | - | - | 4 1/4 | 108 | 2 3/16 | 56 | 4 7/8 | 124 | 1 5/8 | 41 | 3/8 | 9 | 1/2 | 1/2 | 9/16 | 14 |
| BSR2B-30-3 | 3 | - | - | 4 1/4 | 108 | 3 5/8 | 92 | 6 1/8 | 156 | 1 3/4 | 44 | 5/16 | 8 | 5/8 | 1/2 | 9/16 | 14 |
| BSR2B-35-3 | 3 1/2 | - | - | 4 1/4 | 108 | 4 | 102 | 6 5/8 | 168 | 1 3/4 | 44 | 5/16 | 8 | 5/8 | 1/2 | 9/16 | 14 |

5" BOLT CIRCLE BASE

| | | | | | | | | | | | | | | | | | |
|-------------|-----------|------------------|------------|-------|-----|--------|-----|-------|-----|-------|----|-----|---|-----|-----|--------|----|
| BSR2B-025-5 | - | 6 Sol.-250 MCM | .162- .575 | 6 1/4 | 159 | 7/8 | 22 | 2 1/4 | 57 | 1 | 25 | 1/4 | 6 | 3/8 | 5/8 | 1 1/16 | 17 |
| BSR2B-050-5 | - | 1/0 Sol.-500 MCM | .325- .815 | 6 1/4 | 159 | 1 7/16 | 37 | 2 1/4 | 57 | 1 3/8 | 35 | 1/4 | 6 | 3/8 | 5/8 | 1 1/16 | 17 |
| BSR2B-200-5 | 1/2-1 1/2 | 500-2000 MCM | .500-1.824 | 6 3/8 | 162 | 2 3/32 | 53 | 3 7/8 | 98 | 1 1/4 | 32 | 3/8 | 9 | 1/2 | 5/8 | 1 1/16 | 17 |
| BSR2B-20-5 | 2 | - | - | 6 3/8 | 162 | 2 3/16 | 56 | 4 1/2 | 114 | 1 1/2 | 38 | 3/8 | 9 | 1/2 | 5/8 | 1 1/16 | 17 |
| BSR2B-25-5 | 2 1/2 | - | - | 6 3/8 | 162 | 2 3/16 | 56 | 4 7/8 | 124 | 1 5/8 | 41 | 3/8 | 9 | 1/2 | 5/8 | 1 1/16 | 17 |
| BSR2B-30-5 | 3 | - | - | 6 3/8 | 162 | 3 5/8 | 92 | 6 1/8 | 156 | 1 3/4 | 44 | 3/8 | 9 | 5/8 | 5/8 | 1 1/16 | 17 |
| BSR2B-35-5 | 3 1/2 | - | - | 6 3/8 | 162 | 4 | 102 | 6 5/8 | 168 | 1 3/4 | 44 | 3/8 | 9 | 5/8 | 5/8 | 1 1/16 | 17 |

†For conversion to metric range, see page 175.

TIN PLATED COPPER FLEXIBLE BRAID • TYPE FXB

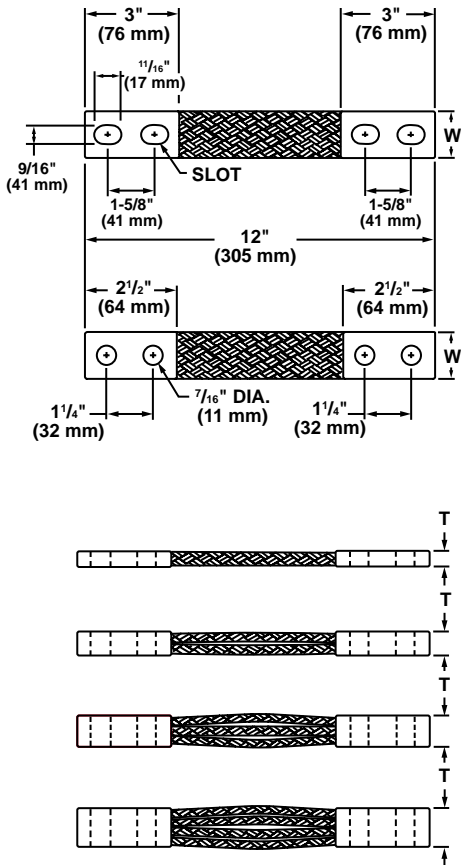


Flexible leads suitable for use wherever it is necessary to take up expansion, allow for misalignment, or take up vibration. Made of flat, extra flexible, tinned, pure copper braid, with tin plated, seamless, pure copper ferrules formed on each end. Inside ends of ferrules are rounded to prevent chafing of strands.

Sizes and combinations not shown readily supplied. Special drilling can be supplied on request. For NEMA drilling, substitute "N" for "S" suffix. Refer to factory if different ferrule dimensions are desired. For lengths other than 12" change catalog number suffix accordingly. For example if an 18" length is desired change -12 to -18.

"S" suffix denotes slotted holes which are suitable for 1/2" or 3/8" mounting hardware on 1 1/2" or 1 3/4" hole centers.

Drop "Q" for silver-plated ferrules.

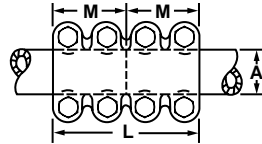


| Catalog Number | No. of Braids in Ferrule | Ampere Rating (Indoors)* | Circular Mils. of Braids | Approximate Dimensions | | | |
|----------------|--------------------------|--------------------------|--------------------------|------------------------|-------|-------|----|
| | | | | T | | W | |
| | | | | in | mm | in | mm |
| FXBA-12-Q | 1 | 200 | 77,184 | 5/32 | 3.96 | 1 | 25 |
| FXB2A-12-Q | 2 | 340 | 154,368 | 7/32 | 5.55 | 1 | 25 |
| FXB3A-12-Q | 3 | 470 | 231,552 | 1/4 | 6.35 | 1 1/8 | 29 |
| FXB4A-12-Q | 4 | 600 | 308,736 | 5/16 | 7.93 | 1 1/8 | 29 |
| FXBA-12S-Q | 1 | 200 | 77,184 | 5/32 | 3.96 | 1 | 25 |
| FXB2A-12S-Q | 2 | 340 | 154,368 | 7/32 | 5.55 | 1 | 25 |
| FXB3A-12S-Q | 3 | 470 | 231,552 | 1/4 | 6.35 | 1 1/8 | 29 |
| FXB4A-12S-Q | 4 | 600 | 308,736 | 5/16 | 7.93 | 1 1/8 | 29 |
| FXBB-12S-Q | 1 | 330 | 135,072 | 1/4 | 6.35 | 1 | 25 |
| FXB2B-12S-Q | 2 | 500 | 270,144 | 1/4 | 6.35 | 1 1/2 | 38 |
| FXB3B-12S-Q | 3 | 650 | 405,216 | 3/8 | 9.52 | 1 1/2 | 38 |
| FXB4B-12S-Q | 4 | 750 | 540,288 | 1/2 | 12.70 | 1 1/2 | 38 |
| FXBC-12S-Q | 1 | 350 | 168,840 | 3/16 | 4.76 | 1 1/2 | 38 |
| FXB2C-12S-Q | 2 | 550 | 337,680 | 1/4 | 6.35 | 1 1/2 | 38 |
| FXB3C-12S-Q | 3 | 720 | 506,520 | 11/32 | 8.73 | 1 1/2 | 38 |
| FXB4C-12S-Q | 4 | 870 | 675,360 | 1/2 | 12.70 | 1 1/2 | 38 |
| FXBD-12S-Q | 1 | 360 | 202,608 | 1/4 | 6.35 | 1 3/8 | 35 |
| FXB2D-12S-Q | 2 | 600 | 405,216 | 13/32 | 10.31 | 1 1/2 | 38 |
| FXB3D-12S-Q | 3 | 780 | 607,824 | 15/32 | 11.90 | 1 1/2 | 38 |
| FXB4D-12S-Q | 4 | 900 | 810,432 | 9/16 | 14.28 | 1 1/2 | 38 |
| FXBE-12S-Q | 1 | 430 | 303,912 | 1/4 | 6.35 | 1 1/2 | 38 |
| FXB2E-12S-Q | 2 | 710 | 607,824 | 1/2 | 12.70 | 1 1/2 | 38 |
| FXB3E-12S-Q | 3 | 980 | 911,736 | 11/16 | 17.46 | 1 1/2 | 38 |
| FXB4E-12S-Q | 4 | 1200 | 1,215,648 | 7/8 | 22.22 | 1 1/2 | 38 |

*Ampere ratings are suggested for use as a guide only. Actual values used for a given application will depend on such factors as permissible temperature rise, permissible voltage drop, number of cables together and other conditions of service. For outdoor use, these ratings may be increased from 22% to 40% depending upon the size and position of the braid.

BRONZE COUPLERS AND REDUCERS • TYPE BA

For joining two conductors of the same size IPS tubing



Made from high copper content alloy. Furnished with silicon bronze bolts, nuts and lockwashers.

| Catalog Number | IPS | Approximate Dimensions | | | | | | Bolt Size | Number of Bolts |
|----------------|-------|------------------------|--------|----|-----|-------|-----|-----------|-----------------|
| | | A | | L | | M | | | |
| | | in | mm | in | mm | in | mm | | |
| BA-0303 | 3/8 | .675 | 17.15 | 3 | 76 | 1 1/2 | 38 | 3/8 | 4 |
| BA-0505 | 1/2 | .840 | 21.34 | 4 | 102 | 2 | 51 | 3/8 | 6 |
| BA-0707 | 3/4 | 1.050 | 26.67 | 4 | 102 | 2 | 51 | 3/8 | 6 |
| BA-1010 | 1 | 1.315 | 33.40 | 6 | 152 | 3 | 76 | 3/8 | 8 |
| BA-1212 | 1 1/4 | 1.660 | 42.16 | 6 | 152 | 3 | 76 | 1/2 | 8 |
| BA-1515 | 1 1/2 | 1.900 | 48.26 | 6 | 152 | 3 | 76 | 1/2 | 8 |
| BA-2020 | 2 | 2.375 | 60.32 | 6 | 152 | 3 | 76 | 1/2 | 8 |
| BA-2525 | 2 1/2 | 2.875 | 73.02 | 7 | 178 | 3 1/2 | 89 | 1/2 | 8 |
| BA-3030 | 3 | 3.500 | 88.90 | 8 | 203 | 4 | 102 | 5/8 | 8 |
| BA-3535 | 3 1/2 | 4.000 | 101.60 | 9 | 229 | 4 1/2 | 114 | 5/8 | 8 |
| BA-4040 | 4 | 4.500 | 114.30 | 10 | 254 | 5 | 127 | 5/8 | 8 |
| BA-5050 | 5 | 5.563 | 141.30 | 12 | 305 | 6 | 162 | 5/8 | 8 |

BRONZE COUPLERS AND REDUCER CONNECTORS • TYPE BDR

For tubing range to cable range



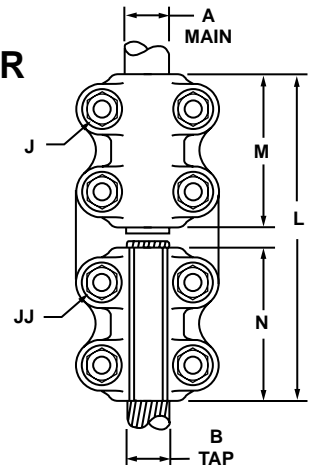
Cast of high copper content alloy. Furnished with silicon bronze bolts, nuts and lockwashers.

Bolt heads pocketed for single wrench installation.

Rounded contours.

Independent clamping action on run and tap.

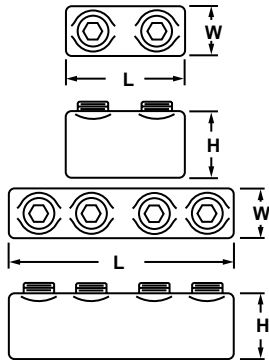
Reversible, range taking, high strength clamping elements.



| Catalog Number | A IPS Main | Conductor Range | | Approximate Dimensions | | | | | | Bolt Dia. | |
|----------------|------------|-------------------|-----------------------|------------------------|-----|-------|----|-------|----|-----------|-----|
| | | B Cable Tap | Wire Diameter Range ‡ | L | | M | | N | | J | JJ |
| | | | in | in | mm | in | mm | in | mm | | |
| BDR-20-025 | 2 | 6 Sol.-250 MCM | .162- .575 | 5 5/8 | 143 | 2 3/4 | 70 | 2 1/2 | 64 | 1/2 | 1/2 |
| BDR-20-050 | 2 | 1/0 Sol.-500 MCM | .325- .815 | 5 5/8 | 143 | 2 3/4 | 70 | 2 1/2 | 64 | 1/2 | 1/2 |
| BDR-20-100 | 2 | 4/0 Sol.-1000 MCM | .460-1.529 | 6 1/8 | 156 | 2 3/4 | 70 | 3 | 76 | 1/2 | 1/2 |
| BDR-20-200 | 2 | 500-2000 MCM | .815-1.632 | 6 1/8 | 156 | 2 3/4 | 70 | 3 | 76 | 1/2 | 1/2 |
| BDR-25-025 | 2 1/2 | 6 Sol.-250 MCM | .162- .575 | 5 5/8 | 143 | 2 3/4 | 70 | 2 1/2 | 64 | 1/2 | 1/2 |
| BDR-25-050 | 2 1/2 | 1/0 Sol.-500 MCM | .325- .815 | 5 5/8 | 143 | 2 3/4 | 70 | 2 1/2 | 64 | 1/2 | 1/2 |
| BDR-25-100 | 2 1/2 | 4/0 Sol.-1000 MCM | .460-1.529 | 6 1/8 | 156 | 2 3/4 | 70 | 3 | 76 | 1/2 | 1/2 |
| BDR-25-200 | 2 1/2 | 500-2000 MCM | .815-1.632 | 6 1/8 | 156 | 2 3/4 | 70 | 3 | 76 | 1/2 | 1/2 |
| BDR-30-025 | 3 | 6 Sol.-250 MCM | .162- .575 | 6 1/8 | 156 | 3 1/4 | 83 | 2 1/2 | 64 | 1/2 | 1/2 |
| BDR-30-050 | 3 | 1/0 Sol.-500 MCM | .325- .815 | 6 1/8 | 156 | 3 1/4 | 83 | 2 1/2 | 64 | 1/2 | 1/2 |
| BDR-30-200 | 3 | 500-2000 MCM | .815-1.632 | 6 5/8 | 168 | 3 1/4 | 83 | 3 | 76 | 1/2 | 1/2 |

‡For conversion to metric range, see page 175.

BRONZE VI-TITE TWO-WAY CONNECTORS • TYPE VC AND VVC



Body is cast from high strength corrosion resistant copper alloy. Screw and saddle are made from bronze. Unique designed protruberances assure higher conductivity and better resistance to pull out. All connectors are provided with cable stops. Hex head screws can be furnished by suffixing catalog numbers with "HH".

TWO SCREW TYPE

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Screw Size | Hex Size |
|----------------|-------------------|----------------------|--------------------------------|----|---------------------------------|----|---------------------------------|----|------------------------------------|--------------------------------|
| | | | L | | H | | W | | | |
| | | | in | mm | in | mm | in | mm | | |
| VC-26010* | 14 Sol.-8 Str. | .064- .146 | 1 ³ / ₈ | 35 | 9 ¹ / ₁₆ | 14 | 15 ¹ / ₃₂ | 12 | 5 ¹ / ₁₆ -24 | 5 ¹ / ₃₂ |
| VC-26000 | 8 Sol.-4 Str. | .128- .232 | 1 ¹ / ₁₆ | 27 | 5 ¹ / ₈ | 16 | 1 ¹ / ₂ | 13 | 5 ¹ / ₁₆ -24 | 5 ¹ / ₃₂ |
| VC-26001 | 4 Sol.-1 Str. | .204- .332 | 1 ⁵ / ₈ | 41 | 7 ¹ / ₈ | 22 | 5 ¹ / ₈ | 16 | 3 ¹ / ₈ -24 | 3 ¹ / ₁₆ |
| VC-26002 | 2 Str.-2/0 Str. | .292- .419 | 1 ⁷ / ₈ | 48 | 1 ¹ / ₃₂ | 26 | 3 ¹ / ₄ | 19 | 1 ¹ / ₂ -20 | 1 ¹ / ₄ |
| VC-26003 | 1/0 Str.-4/0 Str. | .375- .528 | 2 ⁵ / ₁₆ | 59 | 1 ⁹ / ₃₂ | 32 | 7 ¹ / ₈ | 22 | 9 ¹ / ₁₆ -18 | 1 ¹ / ₄ |
| VC-26004 | 3/0 Str.-300 MCM | .470- .634 | 2 ⁹ / ₁₆ | 65 | 1 ³ / ₈ | 35 | 1 | 25 | 3 ¹ / ₄ -16 | 3 ¹ / ₈ |
| VC-26005 | 300-500 MCM | .634- .815 | 2 ⁷ / ₈ | 73 | 1 ¹³ / ₁₆ | 46 | 1 ¹ / ₄ | 32 | 3 ¹ / ₄ -16 | 3 ¹ / ₈ |
| VC-26006 | 500-800 MCM | .815-1.031 | 3 ¹ / ₄ | 83 | 1 ¹³ / ₁₆ | 46 | 1 ⁷ / ₁₆ | 37 | 7 ¹ / ₈ -14 | 3 ¹ / ₈ |
| VC-26007 | 700-1000 MCM | .965-1.529 | 3 ³ / ₄ | 94 | 2 ¹ / ₁₆ | 52 | 1 ⁹ / ₁₆ | 40 | 7 ¹ / ₈ -14 | 3 ¹ / ₈ |

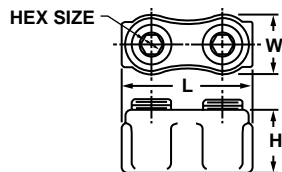
FOUR SCREW TYPE

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Screw Size | Hex Size |
|----------------|-------------------|----------------------|--------------------------------|-----|---------------------------------|----|--------------------------------|----|------------------------------------|--------------------------------|
| | | | L | | H | | W | | | |
| | | | in | mm | in | mm | in | mm | | |
| VVC-26020* | 8 Sol.-4 Str. | .128- .232 | 1 ⁷ / ₈ | 48 | 5 ¹ / ₈ | 16 | 1 ¹ / ₂ | 13 | 5 ¹ / ₁₆ -24 | 5 ¹ / ₃₂ |
| VVC-26021 | 4 Sol.-1 Str. | .204- .332 | 3 | 76 | 7 ¹ / ₈ | 22 | 5 ¹ / ₈ | 16 | 3 ¹ / ₈ -24 | 3 ¹ / ₁₆ |
| VVC-26022 | 2 Str.-2/0 Str. | .292- .419 | 3 ¹ / ₂ | 89 | 1 ¹ / ₃₂ | 25 | 3 ¹ / ₄ | 19 | 1 ¹ / ₂ -20 | 1 ¹ / ₄ |
| VVC-26023 | 1/0 Str.-4/0 Str. | .375- .528 | 4 ³ / ₈ | 111 | 1 ⁹ / ₃₂ | 32 | 7 ¹ / ₈ | 22 | 9 ¹ / ₁₆ -18 | 1 ¹ / ₄ |
| VVC-26024 | 3/0 Str.-300 MCM | .470- .634 | 4 ⁷ / ₈ | 124 | 1 ³ / ₈ | 35 | 1 | 25 | 3 ¹ / ₄ -16 | 3 ¹ / ₈ |
| VVC-26025 | 300-500 MCM | .634- .815 | 5 ⁷ / ₁₆ | 138 | 1 ¹³ / ₁₆ | 46 | 1 ¹ / ₄ | 32 | 3 ¹ / ₄ -16 | 3 ¹ / ₈ |
| VVC-26026 | 500-800 MCM | .815-1.031 | 6 ³ / ₁₆ | 183 | 1 ¹³ / ₁₆ | 46 | 1 ⁷ / ₁₆ | 37 | 7 ¹ / ₈ -14 | 3 ¹ / ₈ |
| VVC-26027 | 700-1000 MCM | .965-1.529 | 7 ³ / ₁₆ | 183 | 2 ¹ / ₁₆ | 52 | 1 ⁹ / ₁₆ | 40 | 7 ¹ / ₈ -14 | 3 ¹ / ₈ |

‡For conversion to metric range, see page 175. For tin plated terminals, suffix catalog number with "-TN". *No saddle.

BRONZE TWO-WAY CONNECTOR • TYPE PNLC

Cable to cable



A low cost two-way connector that gives superior service. Body is cast from high strength copper alloy. Steel, cadmium plated hex socket screws. Annular serrations give higher conductivity and better resistance to pull out.

All connectors are provided with cable stops. Hex head screws can be furnished by suffixing catalog numbers with "HH".

TWO SCREW TYPE

| Catalog Number | Conductor Range | Wire Diameter Range‡ | Approximate Dimensions | | | | | | Screw Size | Hex Size |
|----------------|-----------------|----------------------|-------------------------------|----|---------------------------------|----|--------------------------------|----|------------------------------------|-------------------------------|
| | | | L | | H | | W | | | |
| | | | in | mm | in | mm | in | mm | | |
| PNLC-1/0 | 8 Sol.-1/0 Str. | .128- .375 | 1 ⁵ / ₈ | 41 | 2 ⁷ / ₃₂ | 21 | 2 ³ / ₃₂ | 18 | 1 ¹ / ₂ -20 | 1 ¹ / ₄ |
| PNLC-250 | 6 Sol.-250 MCM | .162- .575 | 2 ¹ / ₈ | 54 | 1 ¹ / ₁₆ | 27 | 3 ¹ / ₃₂ | 25 | 3 ¹ / ₈ -16 | 3 ¹ / ₈ |
| PNLC-500 | 4 Sol.-500 MCM | .204- .815 | 3 | 76 | 1 ¹⁵ / ₃₂ | 37 | 1 ³ / ₈ | 35 | 1 ⁵ / ₁₆ -16 | 3 ¹ / ₈ |
| PNLC-1000 | 500-1000 MCM | .815-1.529 | 3 ³ / ₄ | 94 | 2 | 51 | 1 ³ / ₄ | 44 | 1 ³ / ₈ -14 | 3 ¹ / ₈ |

‡For conversion to metric range, see page 175. †For tin plated terminals, suffix catalog number with "-TN".

BRONZE SERVICE POST CONNECTORS • TYPES SSS, SCS, STS AND SDS



SSS SCS SSS-A1



STS SDS



Body made from high copper content hard drawn rod. Used for connecting one or two conductors to various sizes external stud or tapped hole.

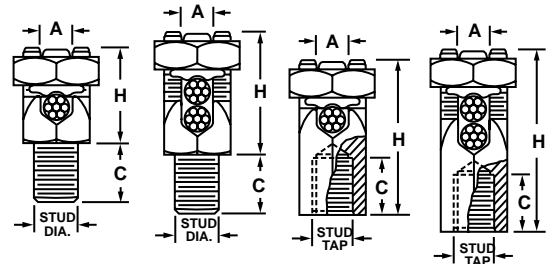


FIG. 1 FIG. 2 FIG. 3 FIG. 4

MALE TYPES SSS AND SCS

| Fig. 1 (One Cable) | | | Fig. 2 (Two Cables) | | | Approximate Dimensions | | | | | | | | | | |
|--------------------|-------------------|-------------------------|---------------------|-------------------|-------------------------|------------------------|----------|----|------|----|--------|----|--------|-----|-----------|----|
| Catalog Number | A Conductor Range | Wire Diameter Range‡ in | Catalog Number | A Conductor Range | Wire Diameter Range‡ in | Stud Size | Nut Hex. | | C | | H | | | | Body Hex. | |
| | | | | | | | in | mm | in | mm | in | mm | in | mm | in | mm |
| SSS-0 | 12 Sol.-8 Str. | .081- .146 | SCS-0 | 12 Sol.-8 Str. | .081- .146 | 1/4-20 | 1/2 | 13 | 1/2 | 13 | 5/8 | 16 | 3/4 | 19 | 3/8 | 9 |
| SSS-0A1 | 12 Sol.-8 Str. | .081- .146 | SCS-0A1 | 12 Sol.-8 Str. | .081- .146 | 1/4-20 | 1/2 | 13 | 1 | 25 | 5/8 | 16 | 3/4 | 19 | 3/8 | 9 |
| SSS-1 | 8 Sol.-7 Str. | .128- .164 | SCS-1 | 10 Sol.-7 Str. | .102- .164 | 1/4-20 | 11/16 | 17 | 1/2 | 13 | 7/8 | 22 | 1 | 25 | 1/2 | 13 |
| SSS-1A1 | 8 Sol.-7 Str. | .128- .164 | SCS-1A1 | 10 Sol.-7 Str. | .102- .164 | 1/4-20 | 11/16 | 17 | 1 | 25 | 7/8 | 22 | 1 | 25 | 1/2 | 13 |
| SSS-2 | 10 Sol.-4 Str. | .102- .232 | SCS-2 | 10 Sol.-4 Str. | .102- .232 | 5/16-18 | 3/4 | 19 | 9/16 | 14 | 15/16 | 24 | 15/32 | 29 | 9/16 | 14 |
| SSS-2A1 | 10 Sol.-4 Str. | .102- .232 | SCS-2A1 | 10 Sol.-4 Str. | .102- .232 | 5/16-18 | 3/4 | 19 | 1 | 25 | 15/16 | 24 | 15/32 | 29 | 9/16 | 14 |
| SSS-3 | 6 Sol.-3 Str. | .162- .260 | SCS-3 | 10 Sol.-3 Str. | .102- .260 | 3/8-16 | 13/16 | 21 | 5/8 | 16 | 11/16 | 27 | 13/32 | 28 | 5/8 | 16 |
| SSS-3A1 | 6 Sol.-3 Str. | .162- .260 | SCS-3A1 | 10 Sol.-3 Str. | .102- .260 | 3/8-16 | 13/16 | 21 | 11/8 | 29 | 11/16 | 27 | 13/32 | 28 | 5/8 | 16 |
| SSS-4 | 4 Str.-2 Str. | .232- .292 | SCS-4 | 10 Sol.-2 Str. | .102- .292 | 3/8-16 | 7/8 | 22 | 5/8 | 16 | 11/16 | 27 | 13/8 | 35 | 11/16 | 17 |
| SSS-4A1 | 4 Str.-2 Str. | .232- .292 | SCS-4A1 | 10 Sol.-2 Str. | .102- .292 | 3/8-16 | 7/8 | 22 | 11/8 | 29 | 11/16 | 27 | 13/32 | 33 | 11/16 | 17 |
| SSS-5 | 6 Sol.-1/0 Str. | .162- .375 | SCS-5 | 2 sol.-1/0 Str. | .258- .375 | 1/2-13 | 1 | 25 | 3/4 | 19 | 15/16 | 33 | 111/16 | 43 | 3/4 | 19 |
| SSS-5A1 | 6 Sol.-1/0 Str. | .162- .375 | SCS-5A1 | 2 Sol.-1/0 Str. | .258- .375 | 1/2-13 | 1 | 25 | 11/4 | 32 | 15/16 | 33 | 111/16 | 43 | 3/4 | 19 |
| SSS-6 | 1 Sol.-2/0 Str. | .289- .419 | SCS-6 | 2 Sol.-2/0 Str. | .258- .419 | 1/2-13 | 11/8 | 29 | 3/4 | 19 | 17/16 | 37 | 17/8 | 48 | 7/8 | 22 |
| SSS-6A1 | 1 Sol.-2/0 Str. | .289- .419 | SCS-6A1 | 2 Sol.-2/0 Str. | .258- .419 | 1/2-13 | 11/8 | 29 | 11/4 | 32 | 17/16 | 37 | 17/8 | 48 | 7/8 | 22 |
| SSS-8 | 3/0 Sol.-4/0 Str. | .410- .528 | SCS-8 | 1 Sol.-4/0 Str. | .289- .528 | 5/8-11 | 13/8 | 35 | 1 | 25 | 111/16 | 43 | 21/4 | 57 | 11/8 | 29 |
| SSS-8A1 | 3/0 Sol.-4/0 Str. | .410- .528 | SCS-8A1 | 1 Sol.-4/0 Str. | .289- .528 | 5/8-11 | 13/8 | 35 | 11/2 | 38 | 111/16 | 43 | 21/4 | 57 | 11/8 | 29 |
| SSS-9 | 4/0 Str.-350 MCM | .528- .682 | SCS-9 | 1 Str.-350 MCM | .332- .682 | 5/8-11 | 11/2 | 38 | 1 | 25 | 2 | 51 | 211/16 | 68 | 11/4 | 32 |
| SSS-9A1 | 4/0 Str.-350 MCM | .528- .682 | SCS-9A1 | 1 Str.-350 MCM | .332- .682 | 5/8-11 | 11/2 | 38 | 11/2 | 38 | 2 | 51 | 211/16 | 68 | 11/4 | 32 |
| SSS-10 | 250-500 MCM | .575- .815 | SCS-10 | 3/0 Str.-500 MCM | .470- .815 | 3/4-10 | 113/16 | 46 | 13/8 | 35 | 25/16 | 59 | 33/16 | 81 | 11/2 | 38 |
| SSS-10A1 | 250-500 MCM | .575- .815 | SCS-10A1 | 3/0 Str.-500 MCM | .470- .815 | 3/4-10 | 113/16 | 46 | 13/4 | 44 | 25/16 | 59 | 33/16 | 81 | 11/2 | 38 |
| * SSS-11 | 300-750 MCM | .634- .999 | SCS-11 | 350-750 MCM | .682- .999 | 3/4-10 | 21/4 | 57 | 13/8 | 35 | 21/2 | 64 | 37/16 | 87 | 17/8 | 48 |
| * SSS-11A1 | 300-750 MCM | .634- .999 | SCS-11A1 | 350-750 MCM | .682- .999 | 3/4-10 | 21/4 | 57 | 17/8 | 48 | 21/2 | 64 | 37/16 | 87 | 17/8 | 48 |
| * SSS-12 | 750-1000 MCM | .999-1.153 | SCS-12 | 500-1000 MCM | .815-1.153 | 1-8 | 25/8 | 67 | 11/2 | 38 | 3 | 76 | 4 | 102 | 23/8 | 60 |
| * SSS-12A1 | 750-1000 MCM | .999-1.153 | SCS-12A1 | 500-1000 MCM | .815-1.153 | 1-8 | 25/8 | 67 | 2 | 51 | 3 | 76 | 4 | 102 | 23/8 | 60 |

FEMALE TYPES STS AND SDS

If nut and lockwasher are required, add suffix "-SMH" to catalog number.

| Fig. 3. (One Cable) | | | Fig. 4 (Two Cables) | | | Approximate Dimensions | | | | | | | | | | |
|---------------------|-------------------|-------------------------|---------------------|-------------------|-------------------------|------------------------|----------|----|------|----|-------|-----|--------|-----|-----------|----|
| Catalog Number | A Conductor Range | Wire Diameter Range‡ in | Catalog Number | A Conductor Range | Wire Diameter Range‡ in | Stud Size | Nut Hex. | | C | | H | | | | Body Hex. | |
| | | | | | | | in | mm | in | mm | in | mm | in | mm | in | mm |
| STS-0 | 12 Sol.-8 Str. | .081- .146 | SDS-0 | 12 Sol.-8 Str. | .081- .146 | 1/4-20 | 1/2 | 13 | 1/4 | 6 | 29/32 | 23 | 11/8 | 29 | 3/8 | 9 |
| STS-1 | 10 Sol.-7 Str. | .102- .164 | SDS-1 | 10 Sol.-7 Str. | .102- .164 | 1/4-20 | 11/16 | 17 | 1/4 | 6 | 11/8 | 29 | 17/16 | 37 | 1/2 | 13 |
| STS-2 | 8 Sol.-4 Str. | .128- .232 | SDS-2 | 10 Sol.-4 Str. | .102- .232 | 5/16-18 | 3/4 | 19 | 5/16 | 8 | 17/16 | 37 | 19/16 | 40 | 9/16 | 14 |
| STS-3 | 6 Str.-3 Str. | .184- .260 | SDS-3 | 10 Sol.-3 Str. | .102- .260 | 3/8-16 | 13/16 | 21 | 3/8 | 9 | 11/2 | 38 | 15/8 | 41 | 5/8 | 16 |
| STS-4 | 6 Str.-2 Str. | .184- .292 | SDS-4 | 10 Sol.-2 Str. | .102- .292 | 3/8-16 | 7/8 | 22 | 3/8 | 9 | 15/8 | 41 | 151/16 | 49 | 11/16 | 17 |
| STS-5 | 2 Sol.-1/0 Str. | .258- .375 | SDS-5 | 2 Sol.-1/0 Str. | .258- .375 | 1/2-13 | 1 | 25 | 7/16 | 11 | 17/8 | 48 | 21/8 | 54 | 3/4 | 19 |
| STS-6 | 1 Sol.-2/0 Str. | .289- .419 | SDS-6 | 2 Sol.-2/0 Str. | .258- .419 | 1/2-13 | 11/8 | 29 | 1/2 | 13 | 21/16 | 52 | 25/16 | 59 | 7/8 | 22 |
| STS-8 | 1/0 Str.-4/0 Str. | .375- .528 | SDS-8 | 1 Sol.-4/0 Str. | .289- .528 | 5/8-11 | 13/8 | 35 | 5/8 | 16 | 23/8 | 60 | 21/2 | 64 | 11/8 | 29 |
| STS-9 | 4/0 Str.-350 MCM | .528- .682 | SDS-9 | 1 Str.-350 MCM | .332- .682 | 5/8-11 | 11/2 | 38 | 5/8 | 16 | 25/8 | 67 | 211/16 | 68 | 11/4 | 32 |
| STS-10 | 300-500 MCM | .634- .815 | SDS-10 | 3/0 Str.500 MCM | .470- .815 | 3/4-10 | 113/16 | 46 | 3/4 | 19 | 33/8 | 79 | 35/16 | 84 | 11/2 | 38 |
| * STS-11 | 600-750 MCM | .893- .999 | SDS-11 | 350-750 MCM | .682- .999 | 3/4-10 | 21/4 | 57 | 7/8 | 22 | 31/2 | 89 | 31/2 | 89 | 2 | 51 |
| * STS-12 | 750-1000 MCM | .964-1.153 | SDS-12 | 500-1000 MCM | .815-1.153 | 1-8 | 25/8 | 67 | 11/8 | 29 | 41/8 | 105 | 4 | 102 | 23/8 | 60 |

‡For conversion to metric range, see page 175. *UL listing is limited to 500 MCM.

COPPER COMPRESSION TERMINALS • TYPE TLU

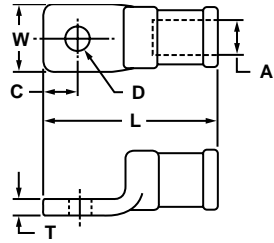


FIG. 1

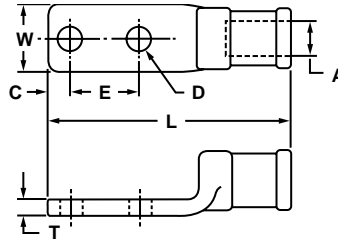


FIG. 2

These heavy duty compression lugs are cast out of high conductivity copper and can be installed with existing crimping tools.

Entire connector is electro-tin plated.

| Catalog Number | A Conductor Range | Wire Diam. Range | D Bolt Size | Fig. No. | Approximate Dimensions | | | | | | | | | | T & B Die Size |
|----------------|-------------------|------------------|-------------|----------|------------------------|-----|--------|----|-------|----|--------|----|-------|----|----------------|
| | | | | | L | | W | | T | | C | | E | | |
| | | | | | in | mm | in | mm | in | mm | in | mm | in | mm | |
| TLU-W8S | 8 Str. | .146 | 10 | 1 | 17/16 | 37 | 1/2 | 13 | 1/8 | 3 | 5/16 | 8 | - | - | 29 |
| TLU-W8D | 8 Str. | .146 | 1/4 | 2 | 2 | 51 | 1/2 | 13 | 1/8 | 3 | 11/32 | 9 | 5/8 | 16 | 29 |
| TLU-W6S | 6 Str. | .184 | 1/4 | 1 | 17/16 | 37 | 1/2 | 13 | 1/8 | 3 | 5/16 | 8 | - | - | 29 |
| TLU-W6D | 6 Str. | .184 | 1/4 | 2 | 2 | 51 | 1/2 | 13 | 1/8 | 3 | 11/32 | 9 | 5/8 | 16 | 29 |
| TLU-W4S | 4 Str. | .232 | 1/4 | 1 | 17/16 | 37 | 1/2 | 13 | 1/8 | 3 | 5/16 | 8 | - | - | 29 |
| TLU-W4D | 4 Str. | .232 | 1/4 | 2 | 2 | 51 | 1/2 | 13 | 1/8 | 3 | 11/32 | 9 | 5/8 | 16 | 29 |
| TLU-W2S | 2 Str. | .292 | 1/4 | 1 | 2 | 51 | 3/4 | 19 | 1/4 | 6 | 7/16 | 11 | - | - | 45 |
| TLU-W2D | 2 Str. | .292 | 1/4 | 2 | 3 | 76 | 3/4 | 19 | 1/4 | 6 | 1/2 | 13 | 3/4 | 19 | 45 |
| TLU-W1S | 1 Str. | .332 | 1/4 | 1 | 2 | 51 | 3/4 | 19 | 1/4 | 6 | 7/16 | 11 | - | - | 45 |
| TLU-W1D | 1 Str. | .332 | 1/4 | 2 | 3 | 76 | 3/4 | 19 | 1/4 | 6 | 1/2 | 13 | 1 | 25 | 45 |
| TLU-1/0S | 1/0 Str. | .368 | 3/8 | 1 | 2 | 51 | 3/4 | 19 | 1/4 | 6 | 7/16 | 11 | - | - | 45 |
| TLU-1/0D | 1/0 Str. | .368 | 3/8 | 2 | 3 | 76 | 3/4 | 19 | 1/4 | 6 | 1/2 | 13 | 1 | 25 | 45 |
| TLU-2/0S | 2/0 Str. | .419 | 3/8 | 1 | 2 5/8 | 67 | 1 | 25 | 9/32 | 7 | 9/16 | 14 | - | - | 66 |
| TLU-2/0D | 2/0 Str. | .419 | 3/8 | 2 | 4 5/8 | 117 | 1 | 25 | 9/32 | 7 | 5/8 | 16 | 1 3/4 | 44 | 66 |
| TLU-3/0S | 3/0 Str. | .470 | 3/8 | 1 | 2 5/8 | 67 | 1 | 25 | 9/32 | 7 | 9/16 | 14 | - | - | 66 |
| TLU-3/0D | 3/0 Str. | .470 | 1/2 | 2 | 4 5/8 | 117 | 1 | 25 | 9/32 | 7 | 5/8 | 16 | 1 3/4 | 44 | 66 |
| TLU-4/0S | 4/0 Str. | .528 | 3/8 | 1 | 2 5/8 | 67 | 1 | 25 | 9/32 | 7 | 9/16 | 14 | - | - | 66 |
| TLU-4/0D | 4/0 Str. | .528 | 1/2 | 2 | 4 5/8 | 117 | 1 | 25 | 9/32 | 7 | 5/8 | 16 | 1 3/4 | 44 | 66 |
| TLU-025S | 250 MCM | .575 | 1/2 | 1 | 3 1/4 | 83 | 1 3/16 | 30 | 5/16 | 8 | 3/4 | 19 | - | - | 76 |
| TLU-025D | 250 MCM | .575 | 1/2 | 2 | 4 7/8 | 124 | 1 3/16 | 30 | 5/16 | 8 | 5/8 | 16 | 1 3/4 | 44 | 76 |
| TLU-030S | 300 MCM | .634 | 1/2 | 1 | 3 1/4 | 83 | 1 3/16 | 30 | 5/16 | 8 | 3/4 | 19 | - | - | 76 |
| TLU-030D | 300 MCM | .634 | 1/2 | 2 | 4 7/8 | 124 | 1 3/16 | 30 | 5/16 | 8 | 5/8 | 16 | 1 3/4 | 44 | 76 |
| TLU-035S | 350 MCM | .682 | 1/2 | 1 | 3 3/4 | 95 | 1 3/8 | 35 | 3/8 | 10 | 3/4 | 19 | - | - | 99 |
| TLU-035D | 350 MCM | .682 | 1/2 | 2 | 5 3/8 | 137 | 1 3/8 | 35 | 3/8 | 10 | 5/8 | 16 | 1 3/4 | 44 | 99 |
| TLU-040S | 400 MCM | .728 | 1/2 | 1 | 3 3/4 | 95 | 1 3/8 | 35 | 3/8 | 10 | 3/4 | 19 | - | - | 99 |
| TLU-040D | 400 MCM | .728 | 1/2 | 2 | 5 3/8 | 137 | 1 3/8 | 35 | 3/8 | 10 | 5/8 | 16 | 1 3/4 | 44 | 99 |
| TLU-050S | 500 MCM | .815 | 1/2 | 1 | 3 3/4 | 95 | 1 3/8 | 35 | 3/8 | 10 | 3/4 | 19 | - | - | 99 |
| TLU-050D | 500 MCM | .815 | 1/2 | 2 | 5 3/8 | 137 | 1 3/8 | 35 | 3/8 | 10 | 5/8 | 16 | 1 3/4 | 44 | 99 |
| TLU-060S | 600 MCM | .893 | 1/2 | 1 | 3 3/4 | 95 | 1 5/8 | 41 | 7/16 | 11 | 3/4 | 19 | - | - | 112 |
| TLU-060D | 600 MCM | .893 | 1/2 | 2 | 5 3/8 | 137 | 1 5/8 | 41 | 7/16 | 11 | 5/8 | 16 | 1 3/4 | 44 | 112 |
| TLU-070S | 700 MCM | .965 | 1/2 | 1 | 3 3/4 | 95 | 1 5/8 | 41 | 7/16 | 11 | 3/4 | 19 | - | - | 112 |
| TLU-070D | 700 MCM | .965 | 1/2 | 2 | 5 3/8 | 137 | 1 5/8 | 41 | 7/16 | 11 | 5/8 | 16 | 1 3/4 | 44 | 112 |
| TLU-075S | 750 MCM | .999 | 1/2 | 1 | 3 3/4 | 95 | 1 5/8 | 41 | 7/16 | 11 | 3/4 | 19 | - | - | 112 |
| TLU-075D | 750 MCM | .999 | 1/2 | 2 | 5 3/8 | 137 | 1 5/8 | 41 | 7/16 | 11 | 5/8 | 16 | 1 3/4 | 44 | 112 |
| TLU-080S | 800 MCM | 1.031 | 1/2 | 1 | 4 1/2 | 114 | 1 7/8 | 48 | 15/32 | 12 | 15/16 | 24 | - | - | 130 |
| TLU-080D | 800 MCM | 1.031 | 1/2 | 2 | 5 3/4 | 146 | 1 7/8 | 48 | 15/32 | 12 | 5/8 | 16 | 1 3/4 | 44 | 130 |
| TLU-090S | 900 MCM | 1.094 | 5/8 | 1 | 4 1/2 | 114 | 1 7/8 | 48 | 15/32 | 12 | 15/16 | 24 | - | - | 130 |
| TLU-090D | 900 MCM | 1.094 | 1/2 | 2 | 5 3/4 | 146 | 1 7/8 | 48 | 15/32 | 12 | 5/8 | 16 | 1 3/4 | 44 | 130 |
| TLU-100S | 1000 MCM | 1.153 | 5/8 | 1 | 4 1/2 | 114 | 1 7/8 | 48 | 15/32 | 12 | 15/16 | 24 | - | - | 130 |
| TLU-100D | 1000 MCM | 1.153 | 1/2 | 2 | 5 3/4 | 146 | 1 7/8 | 48 | 15/32 | 12 | 5/8 | 16 | 1 3/4 | 44 | 130 |
| TLU-125S | 1250 MCM | 1.290 | 5/8 | 1 | 5 | 127 | 2 1/4 | 57 | 1/2 | 13 | 1 1/16 | 27 | - | - | 150 |
| TLU-125D | 1250 MCM | 1.290 | 1/2 | 2 | 6 | 152 | 2 1/4 | 57 | 1/2 | 13 | 5/8 | 16 | 1 3/4 | 44 | 150 |
| TLU-150S | 1500 MCM | 1.142 | 5/8 | 1 | 5 | 127 | 2 1/4 | 57 | 1/2 | 13 | 1 1/16 | 27 | - | - | 161 |
| TLU-150D | 1500 MCM | 1.412 | 1/2 | 2 | 6 | 152 | 2 1/4 | 57 | 1/2 | 13 | 5/8 | 16 | 1 3/4 | 44 | 161 |
| TLU-175S | 1750 MCM | 1.526 | 5/8 | 1 | 5 7/8 | 149 | 2 1/2 | 64 | 1/2 | 13 | 1 3/16 | 30 | - | - | 175 |
| TLU-175D | 1750 MCM | 1.526 | 1/2 | 2 | 6 5/8 | 168 | 2 1/2 | 64 | 1/2 | 13 | 5/8 | 16 | 1 3/4 | 44 | 175 |
| TLU-200S | 2000 MCM | 1.632 | 5/8 | 1 | 6 1/8 | 156 | 2 3/4 | 70 | 1/2 | 13 | 1 5/16 | 33 | - | - | 187 |
| TLU-200D | 2000 MCM | 1.632 | 1/2 | 2 | 6 5/8 | 168 | 2 3/4 | 70 | 1/2 | 13 | 5/8 | 16 | 1 3/4 | 44 | 187 |

GLASS REINFORCED PLASTIC TERMINAL BLOCKS • SERIES 6000



SERIES 6000-WIDE SLOT

Series 6000 terminal blocks have a wide slot opening ($\frac{9}{16}$ ") to take wires with either a soldered or solderless terminal lug. They are molded of glass reinforced thermoplastic engineering resin. Jumper bars are stamped of .062 inch hard rolled copper, plated to prevent corrosion and cannot be removed from terminal block. Holes are tapped at two corners for attachment of cover. Washer-head screws, No. 10-32, are nickel plated. White marking strips, of a special durable vinyl are furnished.

Rating: 75 amps with #4 max crimp lug 600V 75°C.
45 amps with #8 max wire 600V 75°C.

SERIES 6000-SVS

For white vinyl cover, suffix catalog number with "-SVS".

SERIES 6000-SCS

SHORT CIRCUITING

For shorting strip of hard rolled copper, which is pierced to take a shorting pin that makes contact with the jumper bar, suffix catalog number with "-SCS." Two shorting pins furnished as standard. This provides for short circuiting of two of the circuits passing through the block. Extra shorting pins, SCP-1, may be ordered separately.

SERIES 6000-SCC

For short circuiting block with cover instead of the plastic marking strip furnished with the standard 6000 series blocks, suffix catalog number with "-SCC." Two shorting pins furnished as standard.

| Catalog Number | No. of Wires | Approximate Dimensions | | | | |
|----------------|--------------|------------------------|-----------------|------------------|------------------|------|
| | | Width | Height | Length | Mounting Hole | |
| | | Inches | Inches | Inches | C. to C. | Dia. |
| 6002 | 2 | 2 | $1\frac{3}{16}$ | $2\frac{1}{2}$ | $1\frac{13}{16}$ | .225 |
| 6004 | 4 | 2 | $1\frac{3}{16}$ | $3\frac{13}{16}$ | $3\frac{1}{8}$ | .225 |
| 6006 | 6 | 2 | $1\frac{3}{16}$ | $5\frac{1}{8}$ | $4\frac{3}{8}$ | .225 |
| 6008 | 8 | 2 | $1\frac{3}{16}$ | $6\frac{7}{16}$ | $5\frac{3}{4}$ | .225 |
| 6012 | 12 | 2 | $1\frac{3}{16}$ | $9\frac{1}{16}$ | $8\frac{3}{8}$ | .225 |

VERSATILE AND ECONOMICAL NORYL® TERMINAL BLOCKS • SERIES 15-1600



Penn-Union's 15-1600 series of break-resistant terminal blocks are rated for service at 600 volts. Constructed of 94V-1 grade Noryl®, the 15-1600 series of terminal blocks are much stronger than more common phenolic terminal blocks. The 15-1600 series meets 125V UL service entrance equipment requirements. These terminal blocks are designed with a universal mounting feature utilizing adjustable, metal mounting eyelets. This allows easy installation in mounting holes that have been pre-drilled for competitive 1500 and 1600 series blocks. The mounting eyelets evenly distribute mounting screw pressure as well.

Penn-Union's 15-1600 series terminal blocks are available in 4, 6, 8 and 12 position models. All blocks can accommodate up to $\frac{7}{16}$ " lugs (pad width). Screws in Penn-Union's 15-1600 series of terminal blocks are friction locked to prevent loosening.

Options

Each terminal block is available with a shorting strip and four shorting screws, or, a clear plastic hinged lid. For terminal blocks with shorting strips, add "SC" as a suffix to catalog numbers. For terminal blocks with hinged lids, add "C" as a suffix to catalog number.



Break Resistant 94V-1 Grade Noryl® Terminal Blocks

| Catalog Number | Number of Wires Per Side | Ctn. Qty. | L inches | Mounting Hole | |
|----------------|--------------------------|-----------|----------|---------------|-------------|
| | | | | Range Min. | Inches Max. |

50 Amp – 600 Volts

| | | | | | |
|----------|----|---|----------------|----------------|----------------|
| •15-1604 | 4 | 2 | $3\frac{3}{4}$ | $2\frac{7}{8}$ | $3\frac{3}{8}$ |
| •15-1606 | 6 | 2 | 5 | $4\frac{1}{8}$ | $4\frac{5}{8}$ |
| •15-1608 | 8 | 2 | $6\frac{1}{4}$ | $5\frac{3}{8}$ | $5\frac{7}{8}$ |
| •15-1612 | 12 | 2 | $8\frac{3}{4}$ | $7\frac{7}{8}$ | $8\frac{3}{8}$ |

Ratings: Wire Range – Line Side: CU Max 6 (UL): 8 (CSA)
– Load Side: CU Max 10 (UL): 8 (CSA)

Temp Rating 80°C.

Amp Rating: 60 Amps with #6 Wire
Other Wire 30 Amps

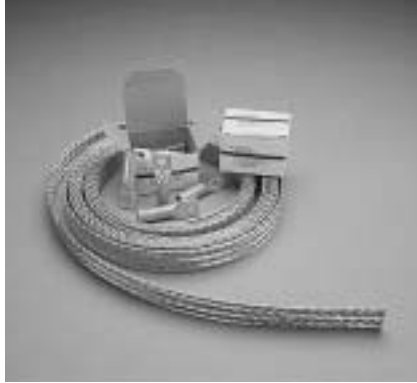
Torque: 20 in-lbs.

•Stock items.

Noryl® is a trademark of General Electric Company.

FLEXIBLE BRAID KITS

Create custom flexible connections to your exact job requirements



Penn-Union's Flexible Braid Kits allow you to make custom flexible connections to precisely match your job specifications. Flexible braid kits eliminate the need to wait for special order flexible leads or use leads that are not ideally suited to a particular job application.

Choose from two Flexible Braid Kits.

Penn-Union's Flexible Braid Kits come in small and large braid sizes. Both kits contain a length of tin-plated flexible copper braid and flared end long barrel Penn-Crimp® compression connectors, type BBLU, for ease of braid insertion. Additional connectors are available from Penn-Union stocking distributors.

Flexible Braid Kits are made from quality materials.

Flexible Braid Kits contain braid made from high quality tin-plated copper. The braid's pure copper core provides high conductivity while tin plating makes the braid corrosion resistant. In addition, the woven design of Penn-Union's braid allows maximum flexibility of a connection.

Flexible Braid Kits

| Small Braid Kit | | | Large Braid Kit | | |
|----------------------------------------------------------|--------------|-------------------|----------------------------------------------------------|--------------|-------------------|
| Catalog Number | Braid Length | No. of Connectors | Catalog Number | Braid Length | No. of Connectors |
| FBK-125 | 20' | 20-BBLU 1/0 S-FL | FBK-285 | 10' | 10-BBLU 050 D-FL |
| 125 Amp 77,184 Circular mil braid (#1 AWG) 5/32"x1 1/16" | | | 285 Amp 303,912 Circular mil braid (300 MCM) 3/8"x1 3/8" | | |

TRANSFORMER LUG KITS • TYPE LASK



486B LISTED
AL9CU



Mechanical Transformer Lug Kits contain Type LA aluminum solderless lugs, steel nuts and bolts. They come in four sizes and can be used with any dry-type transformer.

Steel nuts and bolts are yellow chromated for corrosion resistance. Nuts have special captive conical pressure washers that maintain bolted contact pressure when properly torqued.

Type LA aluminum lugs are "dual rated", carrying the UL486B listing for copper and aluminum conductors. Each lug is marked "AL9CU" to signify this level of performance.

| Catalog Number | Transformer KVA Size | Kit Contents | | | |
|----------------|----------------------|--------------|------|--------------|------|
| | | Lugs | Qty. | Bolts & Nuts | Qty. |
| LASK-1 | 15-37 1/2 1-Phase | LA2 | 8 | 1/4 x 3/4" | 8 |
| | 15-45 3-Phase | LA-250 | 4 | | |
| LASK-2 | 50-75 1-Phase | LA-250 | 12 | 1/4 x 3/4" | 8 |
| | 75-112 1/2 3-Phase | | 16 | 1/4 x 1 3/4" | 8 |
| LASK-3 | 100-167 1-Phase | LA-250 | 3 | 3/8 x 2" | 16 |
| | 150-300 3-Phase | LA-600 | 22 | | |
| LASK-4 | 500 3-Phase | LA-600 | 29 | 3/8 x 2" | 18 |

DOUBLE ROW TERMINAL BLOCKS • SERIES 3000



Terminals are Ultrasonically welded in the block for improved pull-out strength. Closed back or feed through construction, in black thermoplastic, of 1 to 30 terminals.

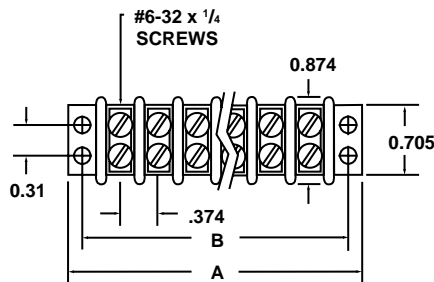
Current ratings, amps (UL)-20, (UL flame retardant rating 94V-0).

Voltage Rating, rms:

- (A) UL Recognized
 1. General Industrial – 150 to 300
 2. Commercial Equipment – 250
- (B) Withstand and Volts, rms – 7,500

Recommended wire size of 14 to 22 AWG solid/stranded.

Screws are $\frac{6}{32} \times \frac{1}{4}$ steel nickel plated binding head.



| Catalog No. | Number Terminals | Decimal Dimensions | |
|-------------|------------------|--------------------|------|
| | | A | B |
| 3004-1B | 4 | 2.16 | 1.88 |
| 3006-1B | 6 | 2.91 | 2.63 |
| 3008-1B | 8 | 3.66 | 3.38 |
| 3010-1B | 10 | 4.41 | 4.13 |

-1B suffix, packaged in plastic bags for merchandising display. For bulk packaged product, contact factory for availability.

Bulk pack items available on special order. *Contact factory for price and availability.*

| Bulk Pack Catalog Numbers | Fraction Dimension | | Decimal Dimension | | Millimeters Dimension | |
|---------------------------|----------------------------------|--------------------------------|-------------------|--------------|-----------------------|-------|
| | A | B | A | B (+/- .015) | A | B |
| 3002 | 1 ¹³ / ₃₂ | 1 ¹ / ₈ | 1.41 | 1.13 | 35.7 | 28.6 |
| 3003 | 1 ²⁵ / ₃₂ | 1 ¹ / ₂ | 1.78 | 1.50 | 45.2 | 38.1 |
| 3004 | 2 ⁵ / ₃₂ | 1 ⁷ / ₈ | 2.16 | 1.88 | 54.7 | 47.6 |
| 3005 | 2 ¹⁷ / ₃₂ | 2 ¹ / ₄ | 2.53 | 2.25 | 64.3 | 57.2 |
| 3006 | 2 ²⁹ / ₃₂ | 2 ⁵ / ₈ | 2.91 | 2.63 | 73.8 | 66.7 |
| 3007 | 3 ⁹ / ₃₂ | 3 | 3.28 | 3.00 | 83.3 | 76.2 |
| 3008 | 3 ²¹ / ₃₂ | 3 ³ / ₈ | 3.66 | 3.38 | 92.8 | 85.7 |
| 3009 | 4 ¹ / ₃₂ | 3 ³ / ₄ | 4.03 | 3.75 | 102.4 | 95.3 |
| 3010 | 4 ¹³ / ₃₂ | 4 ¹ / ₈ | 4.41 | 4.13 | 111.9 | 104.8 |
| 3011 | 4 ²⁵ / ₃₂ | 4 ¹ / ₂ | 4.78 | 4.50 | 121.4 | 114.3 |
| 3012 | 5 ⁵ / ₃₂ | 4 ⁷ / ₈ | 5.16 | 4.88 | 130.9 | 123.8 |
| 3013 | 5 ¹⁷ / ₃₂ | 5 ¹ / ₄ | 5.53 | 5.25 | 140.5 | 133.4 |
| 3014 | 5 ²⁹ / ₃₂ | 5 ⁵ / ₈ | 5.91 | 5.63 | 150 | 142.9 |
| 3015 | 6 ⁹ / ₃₂ | 6 | 6.28 | 6.00 | 159.5 | 152.4 |
| 3016 | 6 ²¹ / ₃₂ | 6 ³ / ₈ | 6.66 | 6.38 | 169 | 161.9 |
| 3017 | 7 ¹ / ₃₂ | 6 ³ / ₄ | 7.03 | 6.75 | 178.2 | 171.5 |
| 3018 | 7 ¹³ / ₃₂ | 7 ¹ / ₈ | 7.41 | 7.13 | 188 | 181 |
| 3019 | 7 ²⁵ / ₃₂ | 7 ¹ / ₂ | 7.78 | 7.50 | 197.6 | 190.1 |
| 3020 | 8 ⁵ / ₃₂ | 7 ¹ / ₈ | 8.16 | 7.88 | 207.1 | 200 |
| 3021 | 8 ¹⁷ / ₃₂ | 8 ¹ / ₄ | 8.53 | 8.25 | 216.7 | 209.6 |
| 3022 | 8 ²⁹ / ₃₂ | 8 ⁵ / ₈ | 8.91 | 8.63 | 226.2 | 219.1 |
| 3023 | 9 ⁹ / ₃₂ | 9 | 9.28 | 9.00 | 235.7 | 228.6 |
| 3024 | 9 ²¹ / ₃₂ | 9 ³ / ₈ | 9.66 | 9.38 | 245.2 | 238.1 |
| 3025 | 10 ¹ / ₃₂ | 9 ³ / ₄ | 10.03 | 9.75 | 254.8 | 247.7 |
| 3026 | 10 ¹³ / ₃₂ | 10 ¹ / ₈ | 10.41 | 10.13 | 264.3 | 257.2 |
| 3027 | 10 ²⁵ / ₃₂ | 10 ¹ / ₂ | 10.78 | 10.50 | 273.8 | 266.7 |
| 3028 | 11 ⁵ / ₃₂ | 10 ⁷ / ₈ | 11.16 | 10.88 | 283.3 | 276.2 |
| 3029 | 11 ¹⁷ / ₃₂ | 11 ¹ / ₄ | 11.53 | 11.25 | 292.9 | 285.8 |
| 3030 | 11 ²⁹ / ₃₂ | 11 ⁵ / ₈ | 11.91 | 11.63 | 302.4 | 295.3 |

AMALGAMATING TAPE • TYPE AT



Amalgamating (self-combining, cold-shrink) tape provides the cable installer a weather-tight wrapping that is superior to traditional PVC based tapes.

This self-amalgamating tape is based on ethylene propylene rubber. It can be used for jointing (splicing and repair of a wide range of solid dielectric power cables. When applied with sufficient stretching, the tape will provide a void free build up of insulation without the need of external heat or pressure.

Electrical properties highly stable under prolonged use on cables at conductor temperatures up to 130°C (266°F).

Compatible with a wide range of polymeric cable insulation materials including polyethylene, PVC, ethylene propylene rubber, crosslinked polyethylene and butyl rubbers and neoprene.

Excellent resistance to prolonged immersion in water.

Ozone resistant.

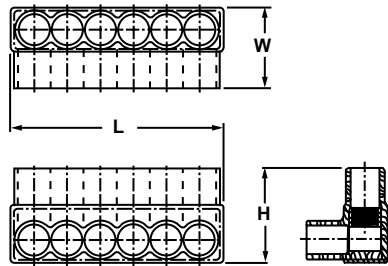
Compatible with acrylic and epoxy resin systems.

Tape removes cleanly from most surfaces when cut, allowing it to be used as a temporary wrap.

| Catalog Number | Description |
|----------------|-----------------------------------|
| AT1X10-1B | Tape, Amal., 1" x 10', 1 per bag. |

ALUMINUM CLEAR INSULATED SECONDARY CONNECTOR • TYPE NACC

For any combination of copper or aluminum

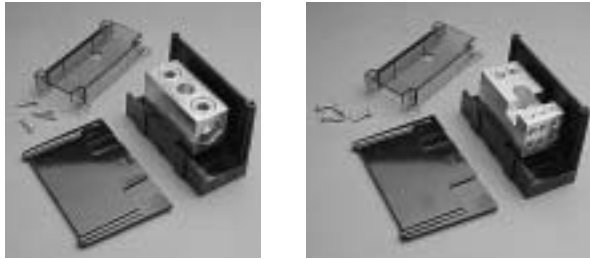


Connectors are made from high strength aluminum alloy, pre-filled with oxide inhibitor compound. Type NACC is tested and passes the requirements of ANSI 119.4 for Class "A" connectors.

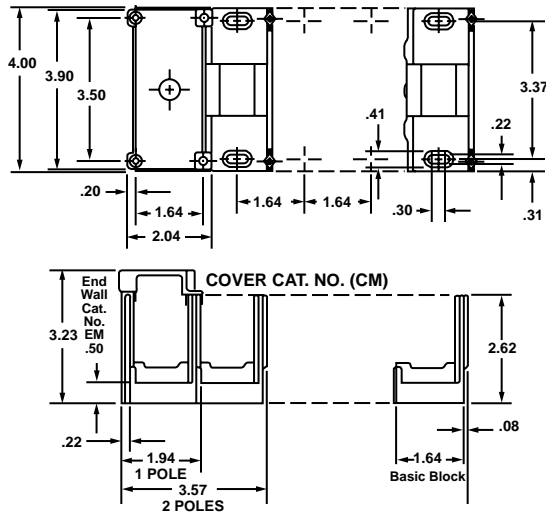
Clear insulation facilitates installation and inspection for proper insertion of conductors. Type NACC is intended only for above ground use.

| Catalog Number | Conductor Range | | Number of Conductors | Approximate Dimensions | | | | | |
|----------------|-----------------|-----------------|----------------------|------------------------|-------|------|-------|------|--------|
| | AWG | MM ² | | H | | W | | L | |
| | | | | in | mm | in | mm | in | mm |
| NACC 350-4 | 10-350 MCM | 4-185 | 4 | 2.51 | 63.75 | 2.12 | 53.85 | 4.03 | 102.36 |
| NACC 350-6 | 10-350 MCM | 4-185 | 6 | 2.51 | 63.75 | 2.12 | 53.85 | 5.85 | 148.59 |
| NACC 350-8 | 10-350 MCM | 4-185 | 8 | 2.51 | 63.75 | 2.12 | 53.85 | 7.67 | 194.82 |
| NACC 500-4 | 10-500-MCM | 4-240 | 4 | 2.88 | 73.15 | 2.25 | 57.15 | 5.09 | 129.29 |
| NACC 500-6 | 10-500-MCM | 4-240 | 6 | 2.88 | 73.15 | 2.25 | 57.15 | 7.47 | 189.74 |

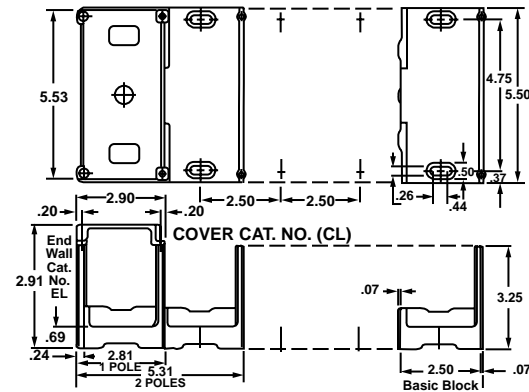
MODULAR POWER DISTRIBUTION BLOCKS • TYPE ADB



- Dual rated AL9CU - UL recognized, CSA certified 600 volt rated
- Easy to assemble
- Triple interlocking features
- Single piece tin plated aluminum connector
- Blocks molded from high strength glass filled polycarbonate insulating material
- Highly versatile - only one basic building block to stock
- Snap as many basic blocks together as desired, finish with one end wall for custom installation every time
- See through polycarbonate safety covers, with test hole, are available to provide dead-front protection, one cover protects one pole



MEDIUM BLOCK (M)



LARGE BLOCK (L)

| Basic Block Catalog Number | Primary | | Secondary | | Amperage Rating per Pole | Block Size | End Wall Catalog Number | Cover Catalog Number |
|----------------------------|------------------|------------------|------------------|------------------|--------------------------|------------|-------------------------|----------------------|
| | Wire Range AL9CU | Opening per Pole | Wire Range AL9CU | Opening per Pole | | | | |
| ADB 16-2/0 | 2/0 - 14 | 1 | 2 - 14 | 6 | 175 | M | EM | CM |
| ADB 26-2/0 | 2/0 - 14 | 2 | 2 - 14 | 6 | 350 | M | EM | CM |
| ADB 112-350 | 350MCM - 6 | 1 | 4 - 14 | 12 | 310 | L | EL | CL |
| ADB 162-350 | 350MCM - 6 | 1 | 2 - 14 | 6 | 310 | M | EM | CM |
| ADB 14-500 | 500MCM - 4 | 1 | 2/0 - 14 | 4 | 380 | M | EM | CM |
| ADB 16-350 | 350MCM - 6 | 1 | 2/0 - 14 | 6 | 310 | L | EL | CL |
| ADB 16-500 | 500MCM - 4 | 1 | 2/0 - 14 | 6 | 380 | L | EL | CL |
| ADB 162-500 | 500MCM - 4 | 1 | 2 - 14 | 6 | 380 | M | EM | CM |
| ADB 26-350 | 350MCM - 6 | 2 | 2/0 - 14 | 6 | 620 | L | EL | CL |
| ADB 26-500 | 500MCM - 4 | 2 | 2/0 - 14 | 6 | 760 | L | EL | CL |
| ADB 24-500 | 500MCM - 4 | 2 | 4/0 - 6 | 4 | 760 | L | EL | CL |
| ADB 212-500 | 500MCM - 4 | 2 | 4 - 14 | 12 | 760 | L | EL | CL |
| ADB 11-2/0 | 2/0 - 14 | 1 | 2/0 - 14 | 1 | 175 | M | EM | CM |
| ADB 11-350 | 350MCM - 6 | 1 | 350MCM - 6 | 1 | 310 | M | EM | CM |
| ADB 11-500 | 500MCM - 4 | 1 | 500MCM - 4 | 1 | 380 | L | EL | CL |
| ADB 22-350 | 350MCM - 6 | 2 | 350MCM - 6 | 2 | 620 | L | EL | CL |
| ADB 22-500 | 500MCM - 4 | 2 | 500MCM - 4 | 2 | 760 | L | EL | CL |
| ADB 22-2/0 | 2/0 - 14 | 2 | 2/0 - 14 | 2 | 350 | M | EM | CM |
| ADB 22-4/0 | 4/0 - 6 | 2 | 4/0 - 6 | 2 | 460 | M | EM | CM |

To order simply determine the number of poles desired per block. Order that number of basic blocks and one end wall for each complete block. If covers are desired, order the same number of covers as basic blocks. For example: If a 3 pole 350MCM block is needed with one primary and 6 secondaries of 2/0-14 range - order three pieces of ADB 16-350 and one piece of EL. If covers are required order three pieces of CL.

POWER DISTRIBUTION BLOCKS • TYPE ADB



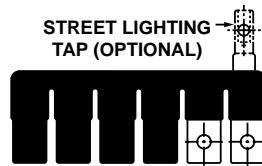
- Dual rated AL9CU - UL recognized, CSA certified 600 volt rated
- Easy to assemble
- Single piece tin plated aluminum connector
- Blocks molded from high strength glass filled polycarbonate insulating material
- See through polycarbonate safety covers, with test hole, are available to provide dead-front protection, one-cover protects one pole

| Basic Block Catalog Number | Primary | | Secondary | | Amperage Rating per Pole | Number of Poles | Block Size | Length in. | Width in. | Height in. | Cover Catalog Number |
|----------------------------------|---------------------|---------------------|---------------------|---------------------|--------------------------------|-----------------------|---------------|---------------|--------------|---------------|----------------------------|
| | Wire Range AL9CU | Opening per Pole | Wire Range AL9CU | Opening per Pole | | | | | | | |
| ADB 16-2/0-1 | 2/0-14 | 1 | 2-14 | 6 | 175 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 16-2/0-2 | 2/0-14 | 1 | 2-14 | 6 | 175 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 16-2/0-3 | 2/0-14 | 1 | 2-14 | 6 | 175 | 3 | M | 4.00 | 5.20 | 2.62 | CM |
| ADB 26-2/0-1 | 2/0-14 | 2 | 2-14 | 6 | 350 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 26-2/0-2 | 2/0-14 | 2 | 2-14 | 6 | 350 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 26-2/0-3 | 2/0-14 | 2 | 2-14 | 6 | 350 | 3 | M | 4.00 | 5.20 | 2.62 | CM |
| ADB 112-350-1 | 350 MCM-6 | 1 | 4-14 | 12 | 310 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 112-350-2 | 350 MCM-6 | 1 | 4-14 | 12 | 310 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 112-350-3 | 350 MCM-6 | 1 | 4-14 | 12 | 310 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 162-350-1 | 350 MCM-6 | 1 | 2-14 | 6 | 310 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 162-350-2 | 350 MCM-6 | 1 | 2-14 | 6 | 310 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 162-350-3 | 350 MCM-6 | 1 | 2-14 | 6 | 310 | 3 | M | 4.00 | 5.20 | 2.62 | CM |
| ADB 14-500-1 | 500 MCM-4 | 1 | 2/0-14 | 4 | 380 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 14-500-2 | 500 MCM-4 | 1 | 2/0-14 | 4 | 380 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 14-500-3 | 500 MCM-4 | 1 | 2/0-14 | 4 | 380 | 3 | M | 4.00 | 5.20 | 2.62 | CM |
| ADB 16-350-1 | 350 MCM-6 | 1 | 2/0-14 | 6 | 310 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 16-350-2 | 350 MCM-6 | 1 | 2/0-14 | 6 | 310 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 16-350-3 | 350 MCM-6 | 1 | 2/0-14 | 6 | 310 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 16-500-1 | 500 MCM-4 | 1 | 2/0-14 | 6 | 380 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 16-500-2 | 500 MCM-4 | 1 | 2/0-14 | 6 | 380 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 16-500-3 | 500 MCM-4 | 1 | 2/0-14 | 6 | 380 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 162-500-1 | 500 MCM-4 | 1 | 2-14 | 6 | 380 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 162-500-2 | 500 MCM-4 | 1 | 2-14 | 6 | 380 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 162-500-3 | 500 MCM-4 | 1 | 2-14 | 6 | 380 | 3 | M | 4.00 | 5.20 | 2.62 | CM |
| ADB 26-350-1 | 350 MCM-6 | 2 | 2/0-14 | 6 | 620 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 26-350-2 | 350 MCM-6 | 2 | 2/0-14 | 6 | 620 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 26-350-3 | 350 MCM-6 | 2 | 2/0-14 | 6 | 620 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 26-500-1 | 500 MCM-4 | 2 | 2/0-14 | 6 | 760 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 26-500-2 | 500 MCM-4 | 2 | 2/0-14 | 6 | 760 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 26-500-3 | 500 MCM-4 | 2 | 2/0-14 | 6 | 760 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 24-500-1 | 500 MCM-4 | 2 | 4/0-6 | 4 | 760 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 24-500-2 | 500 MCM-4 | 2 | 4/0-6 | 4 | 760 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 24-500-3 | 500 MCM-4 | 2 | 4/0-6 | 4 | 760 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 212-500-1 | 500 MCM-4 | 2 | 4-14 | 12 | 760 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 212-500-2 | 500 MCM-4 | 2 | 4-14 | 12 | 760 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 212-500-3 | 500 MCM-4 | 2 | 4-14 | 12 | 760 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 11-2/0-1 | 2/0-14 | 1 | 2/0-14 | 1 | 175 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 11-2/0-2 | 2/0-14 | 1 | 2/0-14 | 1 | 175 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 11-2/0-3 | 2/0-14 | 1 | 2/0-14 | 1 | 175 | 3 | M | 4.00 | 5.20 | 2.62 | CM |
| ADB 11-350-1 | 350 MCM-6 | 1 | 350 MCM-6 | 1 | 310 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 11-350-2 | 350 MCM-6 | 1 | 350 MCM-6 | 1 | 310 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 11-350-3 | 350 MCM-6 | 1 | 350 MCM-6 | 1 | 310 | 3 | M | 4.00 | 5.20 | 2.62 | CM |
| ADB 11-500-1 | 500 MCM-4 | 1 | 500 MCM-4 | 1 | 380 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 11-500-2 | 500 MCM-4 | 1 | 500 MCM-4 | 1 | 380 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 11-500-3 | 500 MCM-4 | 1 | 500 MCM-4 | 1 | 380 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 22-350-1 | 350 MCM-6 | 2 | 350 MCM-6 | 2 | 620 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 22-350-2 | 350 MCM-6 | 2 | 350 MCM-6 | 2 | 620 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 22-350-3 | 350 MCM-6 | 2 | 350 MCM-6 | 2 | 620 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 22-500-1 | 500 MCM-4 | 2 | 500 MCM-4 | 2 | 760 | 1 | L | 5.35 | 2.81 | 3.25 | CL |
| ADB 22-500-2 | 500 MCM-4 | 2 | 500 MCM-4 | 2 | 760 | 2 | L | 5.35 | 5.31 | 3.25 | CL |
| ADB 22-500-3 | 500 MCM-4 | 2 | 500 MCM-4 | 2 | 760 | 3 | L | 5.35 | 7.81 | 3.25 | CL |
| ADB 22-2/0-1 | 2/0-14 | 2 | 2/0-14 | 2 | 350 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 22-2/0-2 | 2/0-14 | 2 | 2/0-14 | 2 | 350 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 22-2/0-3 | 2/0-14 | 2 | 2/0-14 | 2 | 350 | 3 | M | 4.00 | 5.20 | 2.62 | CM |
| ADB 22-4/0-1 | 4/0-6 | 2 | 4/0-6 | 2 | 460 | 1 | M | 4.00 | 1.94 | 2.62 | CM |
| ADB 22-4/0-2 | 4/0-6 | 2 | 4/0-6 | 2 | 460 | 2 | M | 4.00 | 3.57 | 2.62 | CM |
| ADB 22-4/0-3 | 4/0-6 | 2 | 4/0-6 | 2 | 460 | 3 | M | 4.00 | 5.20 | 2.62 | CM |

ALUMINUM UNDERGROUND DIRECT BURIAL SERVICE CONNECTOR • TYPE DBA



For aluminum or copper conductor range

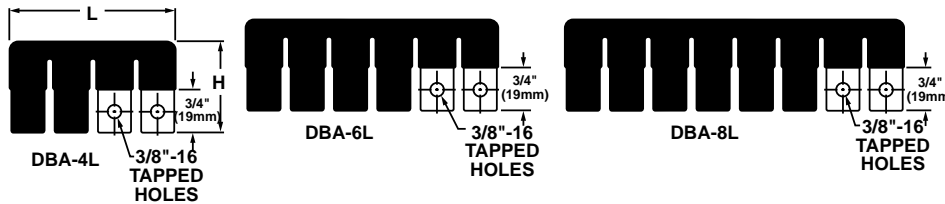


Type DBA is an economical insulated aluminum service connector suitable for direct burial or for use in enclosures. Contact pads allow new services to be added as needed without disturbing previous installations. Taping is eliminated by use of force-fit EPDM rubber insulating sleeves.

Upper DBA body is PVC insulated; each leg is independently capped with a water-tight cover which may be removed for the addition of compression terminal force-fit insulating sleeves.

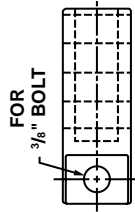
NOTE:

For street lighting tap add suffix "-S" to catalog number. Example: DBA-6L-S. For insulating sleeve for the street lighting tap, consult the factory.



| Catalog Number | Approximate Dimensions | | | |
|----------------|------------------------|-----|-------|----|
| | L | | H | |
| | in | mm | in | mm |
| DBA-4L | 5 1/2 | 140 | 2 3/8 | 60 |
| DBA-6L | 8 1/2 | 216 | 2 3/8 | 60 |
| DBA-8L | 11 1/2 | 292 | 2 3/8 | 60 |

ALUMINUM UNDERGROUND COMPRESSION TERMINAL KITS • TYPE DBTBF



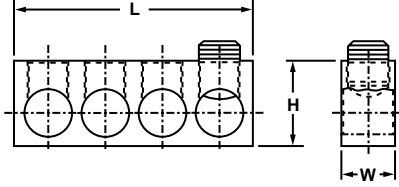
The DBTBF Kit consists of an aluminum compression lug, hex head cap screw with captive conical pressure washer, and a pre-lubricated force-fit rubber sleeve with internal rings that provide a positive seal.

| Catalog Number | Conductor Range | | Wire Diameter Range‡ | EEI Die Index | Die Index | Tools, Dieset Catalog Number and Number of Crimps | | TDY-U Pressure Setting |
|----------------|-----------------|-----------------------------------------|----------------------|---------------|-------------------|---------------------------------------------------|------------------------------|------------------------|
| | Copper | Aluminum | | | | MD 6 Series | Y 35 Series | |
| DBTBF-C6 | 6 Str.-4 Sol. | 6 Str.-4 Sol. 6 Str. Comp. | .179-.204 | 8A | BG or 5/8 or 243 | BG 3 or W243 2 | UBG 1 or U243 1 | 2 |
| DBTBF-W2 | 2 Sol.-4 Str. | 2 Sol.-4 Str. 4 Str. Comp. | .225-.258 | | | | | |
| DBTBF-C1 | 2 Str.-1/0 Sol. | 2 Str.-1/0 Sol. 2 - 1 Str. Comp. | .283-.325 | | | | | |
| DBTBF-010A | 1/0 Str. | 1/0 Str.-2/0 Sol. 1/0 Str. Comp. | .362-.375 | | | | | |
| DBTBF-013 | 2/0 Str. | 2/0 Str.-3/0 Sol. 2/0 Str. Comp. | .406-.419 | 11A | 249 or 840 | W249 3 or WK840 5 | U249 *2 or UK840 3 | 4 |
| DBTBF-017 | 3/0 Str. | 3/0 Str.-4/0 Sol. 3/0 Str. Comp. | .456-.470 | | | | | |
| DBTBF-025 | 4/0 Str. | 4/0 Str.-250 MCM 4/0 Comp.-250 Comp. | .512-.575 | | | | | |
| DBTBF-030 | 250 | 250 MCM-300 MCM 300 Comp. | .575-.634 | 13A | 299 or 655 or 750 | - | U31ART 2 or U655 3 or U705 2 | 5 + |
| DBTBF-035 | - | 300 MCM-350 MCM 350 Comp. | .634-.682 | | | | | |

‡For conversion to metric range, see page 175. *Overlap compressions. +To be tested.

ALUMINUM MULTIPLE TAP CONNECTOR • TYPE NA

For any combination of copper or aluminum



Connectors are made from high strength aluminum alloy, tin plated for bimetalic applications. Fills the need for a UL Recognized 486B, AL7CU and CSA Certified connector for more than one tap conductor not met by split bolts.

Black Plastisol (105° C rated) cover is available for connectors. Covers type NC are listed below as a convenience. The covers are not UL nor CSA.

| Catalog Number | Conductor Range | | Number of Conductors | Approximate Dimensions | | | | | | Cover Catalog Number |
|----------------|-----------------|-----------------|----------------------|------------------------|-------|------|-------|------|--------|----------------------|
| | AWG | MM ² | | H | | W | | L | | |
| | | | | in | mm | in | mm | in | mm | |
| NA250-4T | 10-250 MCM | 4-120 | 4 | 1.13 | 28.70 | .88 | 22.35 | 3.63 | 92.20 | NC4-250 |
| NA250-6T | 10-250 MCM | 4-120 | 6 | 1.13 | 28.70 | .88 | 22.35 | 5.38 | 136.65 | NC6-250 |
| NA250-8T | 10-250 MCM | 4-120 | 8 | 1.13 | 28.70 | .88 | 22.35 | 7.13 | 181.10 | NC8-250 |
| NA350-4T | 10-350 MCM | 4-185 | 4 | 1.38 | 35.05 | 1.00 | 25.40 | 3.79 | 96.27 | NC4-350 |
| NA350-6T | 10-350 MCM | 4-185 | 6 | 1.38 | 35.05 | 1.00 | 25.40 | 5.61 | 142.49 | NC6-350 |
| NA350-8T | 10-350 MCM | 4-185 | 8 | 1.38 | 35.05 | 1.00 | 25.40 | 7.43 | 188.72 | NC8-350 |
| NA500-4T | 10-500 MCM | 4-240 | 4 | 1.63 | 41.40 | 1.00 | 25.40 | 4.84 | 122.94 | NC4-500 |
| NA500-6T | 10-500 MCM | 4-240 | 6 | 1.63 | 41.40 | 1.00 | 25.40 | 7.22 | 183.39 | NC6-500 |
| NA500-8T | 10-500 MCM | 4-240 | 8 | 1.63 | 41.40 | 1.00 | 25.40 | 9.59 | 243.57 | NC8-500 |

ALUMINUM STREET LIGHT CONNECTOR WITH COVER • TYPE SLK

For any combination of copper or aluminum



Connectors are made from high strength aluminum alloy, tin plated for bimetalic applications. The connector is UL Listed 486B, AL9CU and CSA Certified.

Black Plastisol (105° C Rated) cover is provided with the connector. The cover is not UL Listed nor CSA.

| Catalog Number | Conductor Range | | Number of Conductors | Approximate Dimensions | | | | | |
|----------------|-----------------|-----------------|----------------------|------------------------|-------|------|-------|-------|-------|
| | AWG | MM ² | | H | | W | | L | |
| | | | | in | mm | in | mm | in | mm |
| SLK-2/0 | 14-2/0 | 1.5-50 | 3 | .742 | 18.85 | .565 | 14.35 | 1.690 | 42.93 |

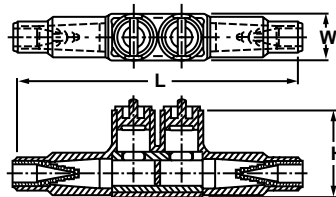
ALUMINUM UNDERGROUND SUBMERSIBLE EPDM RUBBER INSULATED SECONDARY CONNECTOR • TYPE ULS

For aluminum or copper conductors



Connector body manufactured from aluminum alloy for high strength and conductivity. Clear plated for low contact resistance. Pre-filled with oxide inhibitor.

Type ULS is tested and passes the requirements of ANSI 119.1, Western Underground Guide 2.5 for submersible applications, and ANSI 119.4 for class "A" connectors.



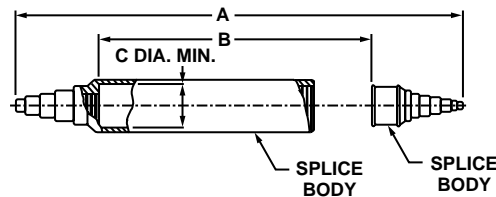
| Catalog Number | Conductor Range | | Approximate Dimensions | | | | | |
|----------------|-----------------|-----------------|------------------------|-------|------|-------|------|--------|
| | AWG | MM ² | H | | W | | L | |
| | | | in | mm | in | mm | in | mm |
| ULS2-350 | 10-350 MCM | 4-185 | 2.48 | 62.99 | 1.34 | 34.04 | 8.09 | 205.49 |

RUBBER UNDERGROUND SUBMERSIBLE EPDM RUBBER COVER FOR INSULATING SECONDARY CONNECTORS • TYPE SSI



Made from durable EPDM rubber. Designed to produce a tight submersible seal on the conductor by allowing the installer to cut the end to fit the conductor size used.

Covers mechanical splices type SR2 through SR350-2 and compression splices types BCU, BBCU, and BCUA 6 through 500. Type SSI cover is tested and passes ANSI 119.1, Western Underground Guide 2.5 for submersible applications, and ANSI 119.4 for class "A" connectors.



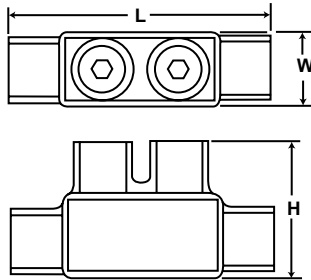
| Catalog Number | Conductor Range | | | | Accommodates Connectors | | Approximate Dimensions | | | | | |
|----------------|-----------------|-----------------|-------------|-----------------|-------------------------|---------------------------------------------------|------------------------|--------|------|--------|------|-------|
| | Mechanical | | Compression | | Mechanical | Compression | A | | B | | C | |
| | AWG | MM ² | AWG | MM ² | | | in | mm | in | mm | in | mm |
| SSI-500 | 14-350 MCM | 1.5-185 | 8-500 MCM | 10-240 | SR2 through SR350-2 | BCU8 thru 050 BBCU8 thru 025 BCUA8 thru 050 | 10.13 | 257.30 | 4.38 | 111.25 | 1.34 | 34.04 |

ALUMINUM CLEAR INSULATED INLINE SPLICER REDUCER • TYPE IISR

For any combination of copper or aluminum



486B LISTED
AL9CU



Connectors are made of high strength aluminum alloy, prefilled with oxide inhibitor compound. Suitable for connecting two wires in line for splicing or reducing. Clear insulation eliminates the need for taping. Removable plugs provide easy access for installation. For use with one wire per set screw.

| Catalog Number | Conductor Range | Approximate Dimensions Inches | | |
|----------------|------------------|-------------------------------|------|------|
| | | L | W | H |
| IISR-2 | 2 Str.-14 Sol. | 2.38 | 0.62 | 1.15 |
| IISR-1/0 | 1/0 Str.-14 Sol. | 2.91 | 0.78 | 1.31 |
| IISR-250 | 250 MCM-6 Sol. | 4.01 | 1.06 | 2.03 |
| IISR-350 | 350 MCM-6 Sol. | 4.63 | 1.21 | 2.28 |
| IISR-500 | 500 MCM-2 Str. | 5.25 | 1.50 | 2.56 |

ALUMINUM CLEAR INSULATED POWER BAR • TYPE IPB

For any combination of copper or aluminum



486B LISTED
AL9CU



Connectors are made from high strength aluminum alloy, prefilled with oxide inhibitor compound. Clear insulation facilitates installation and inspection and eliminates the need for taping. Removable plugs provide easy access for installation. For use with one wire per set screw.

| Catalog Number | Number of Conductors | Conductor Range | Figure No. | Approximate Dimensions Inches | | |
|----------------|----------------------|-----------------|------------|-------------------------------|------|------|
| | | | | L | W | H |
| IPB-NA4-2S | 2 | 4 Str - 14 Sol | 1 | 1.19 | 1.19 | 1.19 |
| IPB-NA4-2D | 2 | 4 Str - 14 Sol | 2 | 1.03 | 1.53 | 1.19 |
| IPB-NA4-4S | 4 | 4 Str - 14 Sol | 1 | 1.19 | 1.19 | 1.19 |
| IPB-NA4-4D | 4 | 4 Str - 14 Sol | 2 | 1.90 | 1.50 | 1.19 |
| IPB-NA2/0-2S | 2 | 2/0-14 Sol | 1 | 1.39 | 1.25 | 1.31 |
| IPB-NA2/0-2D | 2 | 2/0-14 Sol | 2 | 1.39 | 1.56 | 1.31 |
| IPB-NA2/0-3D | 3 | 2/0-14 Sol | 2 | 2.06 | 1.56 | 1.31 |
| IPB-NA2/0-4S | 4 | 2/0-14 Sol | 1 | 2.73 | 1.25 | 1.31 |
| IPB-NA2/0-4D | 4 | 2/0-14 Sol | 2 | 2.73 | 1.56 | 1.31 |
| IPB-NA2/0-6D | 6 | 2/0-14 Sol | 2 | 4.07 | 1.56 | 1.31 |
| IPB-NA250-2D | 2 | 250 MCM-10 Sol | 2 | 1.90 | 2.63 | 2.07 |
| IPB-NA250-3D | 3 | 250 MCM-10 Sol | 2 | 2.84 | 2.63 | 2.07 |
| IPB-NA250-4D | 4 | 250 MCM-10 Sol | 2 | 3.78 | 2.63 | 2.07 |
| IPB-NA250-6D | 6 | 250 MCM-10 Sol | 2 | 5.65 | 2.63 | 2.07 |
| IPB-NA250-8D | 8 | 250 MCM-10 Sol | 2 | 5.53 | 2.63 | 2.07 |
| IPB-NA350-2D | 2 | 350 MCM-10 Sol | 2 | 2.09 | 3.00 | 2.44 |
| IPB-NA350-3D | 3 | 350 MCM-10 Sol | 2 | 3.00 | 3.00 | 2.44 |
| IPB-NA350-4D | 4 | 350 MCM-10 Sol | 2 | 3.91 | 3.00 | 2.44 |
| IPB-NA350-6D | 6 | 350 MCM-10 Sol | 2 | 5.73 | 3.00 | 2.44 |
| IPB-NA350-8D | 8 | 350 MCM-10 Sol | 2 | 7.55 | 3.00 | 2.44 |
| IPB-NA500-2D | 2 | 500 MCM-6 Sol | 2 | 2.43 | 3.00 | 2.69 |
| IPB-NA500-3D | 3 | 500 MCM-6 Sol | 2 | 3.64 | 3.00 | 2.69 |
| IPB-NA500-4D | 4 | 500 MCM-6 Sol | 2 | 4.34 | 3.00 | 2.69 |
| IPB-NA500-6D | 6 | 500 MCM-6 Sol | 2 | 7.25 | 3.00 | 2.69 |
| IPB-NA500-8D | 8 | 500 MCM-6 Sol | 2 | 9.65 | 3.00 | 2.69 |

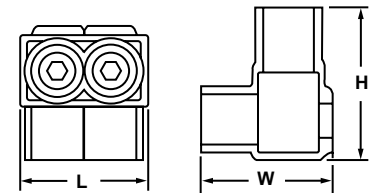


Fig 1
Single Entry

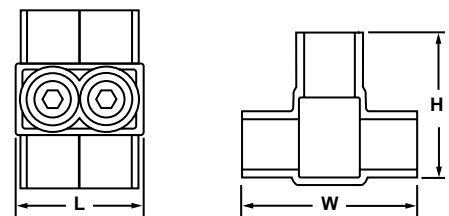


Fig 2
Dual Entry

For other variations of number of conductors and entry type contact factory for availability.

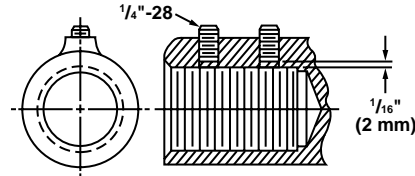
BRONZE UNDERGROUND TRANSFORMER TERMINALS • TYPE UTS



Can be supplied with studs bonded to terminal. Add suffix "S" to catalog number.

Example: UTS-0513-2-S.

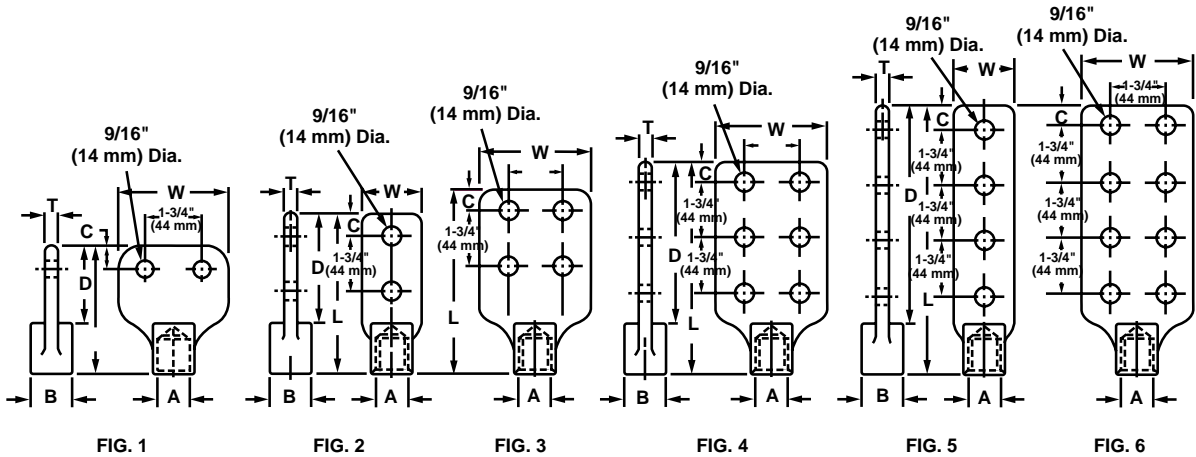
Type UTS is cast of high copper content alloy and electroplated. For use with aluminum or copper compression or bolted type lugs.



Stud locking set screws may be ordered by adding suffix "SS" to catalog numbers (1 stud locking set screw provided on all sizes except where "A" dimension is 1-14, which has 2 stud locking set screws.)

Example without studs: UTS-0513-4L-SS.

Example with studs: UTS-0513-4L-S-SS.



| Catalog Number | Fig. No. | Approximate Dimensions | | | | | | | | | | | | | | |
|----------------|----------|--------------------------------|-----|--------------------------------|--------|-------------------------------|---------------------------------|-----|---------------------------------|-------------------------------|--------------------------------|------|---------------------------------|------|---------------------------------|-------------------------------|
| | | A | | B | | C | | D | | L | | T | | W | | |
| | | in | mm | in | mm | in | mm | in | mm | in | mm | in | mm | | | |
| UTS-0316-2 | 1 | 3/8-16 | 7/8 | 22 | 5/8 | 16 | 2 ³ / ₈ | 60 | 4 | 102 | 1/4 | 6.35 | 3 ¹ / ₂ | 89 | | |
| UTS-0316-2L | 2 | | | | 3/4 | 19 | 3 ¹ / ₂ | 89 | 5 ¹ / ₁₆ | 129 | 5/16 | 7.94 | 1 ³ / ₈ | 35 | | |
| UTS-0316-4 | 3 | | | | 5/8 | 16 | 4 ¹ / ₈ | 105 | 5/4 | 146 | 1/4 | 6.35 | 3 ¹ / ₂ | 89 | | |
| UTS-0316-4L | 5 | | | | 3/4 | 19 | 6 ¹³ / ₁₆ | 173 | 8 ³ / ₈ | 213 | 5/16 | 7.94 | 1 ³ / ₈ | 35 | | |
| UTS-0513-2 | 1 | | | | 1/2-13 | 7/8 | 22 | 5/8 | 16 | 2 ³ / ₈ | 60 | 4 | 102 | 1/4 | 6.35 | 3 ¹ / ₂ |
| UTS-0513-2L | 2 | 3/4 | 19 | 3 ¹ / ₂ | | | | 89 | 5 ¹ / ₁₆ | 129 | 5/16 | 7.94 | 1 ³ / ₈ | 35 | | |
| UTS-0513-4 | 3 | 5/8 | 16 | 4 ¹ / ₈ | | | | 105 | 5 ³ / ₄ | 146 | 1/4 | 6.35 | 3 ¹ / ₂ | 89 | | |
| UTS-0513-4L | 5 | 3/4 | 19 | 7 | | | | 178 | 8 ³ / ₈ | 213 | 5/16 | 7.94 | 1 ³ / ₈ | 35 | | |
| UTS-0611-2 | 1 | 5/8-11 | 7/8 | 22 | | | | 5/8 | 16 | 2 ³ / ₈ | 60 | 4 | 102 | 1/4 | 6.35 | 3 ¹ / ₂ |
| UTS-0611-2L | 2 | | | | 3/4 | 19 | 3 ¹ / ₂ | 89 | 5 ¹ / ₁₆ | 129 | 5/16 | 7.94 | 1 ³ / ₈ | 35 | | |
| UTS-0611-4 | 3 | | | | 5/8 | 16 | 4 ¹ / ₈ | 105 | 5 ³ / ₄ | 146 | 1/4 | 6.35 | 3 ¹ / ₂ | 89 | | |
| UTS-0611-4L | 5 | | | | 3/4 | 19 | 7 | 178 | 8 ³ / ₈ | 213 | 5/16 | 7.94 | 1 ³ / ₈ | 35 | | |
| UTS-1014-2 | 1 | | | | 1-14 | 1 ³ / ₈ | 35 | 5/8 | 16 | 2 ³ / ₈ | 60 | 4 | 102 | 3/8 | 9.53 | 3 ¹ / ₂ |
| UTS-1014-2L | 2 | 3/4 | 19 | 3 ⁹ / ₁₆ | | | | 90 | 5 ¹ / ₈ | 130 | 1 ¹ / ₃₂ | 8.73 | 1 ¹⁵ / ₁₆ | 49 | | |
| UTS-1014-4 | 3 | 5/8 | 16 | 4 ¹ / ₈ | | | | 105 | 5 ³ / ₄ | 146 | 3/8 | 9.53 | 3 ¹ / ₂ | 89 | | |
| UTS-1014-4L | 5 | 1 ⁷ / ₁₆ | 37 | 3/4 | | | | 19 | 7 ¹ / ₁₆ | 179 | 9 ⁷ / ₁₆ | 240 | 1 ¹ / ₃₂ | 8.73 | 1 ¹⁵ / ₁₆ | 49 |
| UTS-1014-6 | 4 | 5/8 | 16 | 5 ¹ / ₈ | | | | 130 | 6 ¹¹ / ₁₆ | 170 | 3/8 | 9.53 | 3 ¹ / ₂ | 89 | | |
| UTS-1014-8 | 6 | 5/8 | 16 | 6 ⁷ / ₈ | | | | 175 | 9 ⁷ / ₁₆ | 240 | 3/8 | 9.53 | 3 ¹ / ₂ | 89 | | |

CUAL-AID®

A contact compound for all electrical connections



Wide temperature range remains smooth and easy-working even at very low temperatures

Will not wash off from exposure to the elements, yet can be washed off hands and clothes with detergent.

Accelerated testing under exposure to intense ultraviolet light, water spray, and hot air shows no deterioration.

Excellent electrically as a contact aid.

| Catalog Number | Quantity Volume | Container |
|------------------|-----------------|----------------------------|
| 4 oz. No. 11C | 4 oz. (Net Wt.) | Squeeze Tube (12 per cart) |
| 1/2 Pint No. 11C | 1/2 Pint | Plastic Flask |
| Pint No. 11C | Pint | Pint Can |
| Quart No. 11C | Quart | Quart Can |
| 1 Gallon No. 11C | Gallon | Gallon Can |
| 5 Gallon No. 11C | 5 Gallon | 5 Gallon Can |

For Cual-Aid #12 change 11 in catalog number to 12.

Cual-Aid #11C

The highest quality general purpose non-petroleum base electrical joint compound containing zinc dust for bolted connections. This compound has superior compatibility with insulating materials.

Cual-Aid #12C

This high quality non-petroleum base compound contains zinc dust, along with suspended grit bearing particles. It is especially suitable for use in compression connectors. Not for use on threads of bolted connectors. It is compatible with rubber, polyethylene, neoprene, polyvinyl chloride tapes and other insulating materials.

The application of CUAL-AID is recommended on:

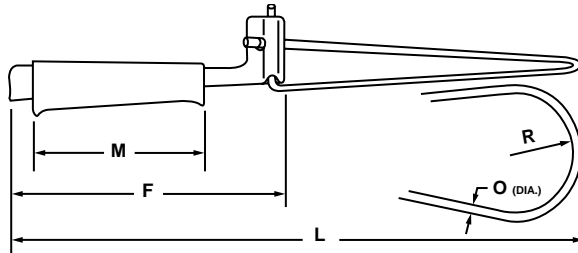
CONNECTOR: Smear compound into connector grooves. DO NOT wire-brush the grooves of plated or grease-coated connectors. These are especially treated at the factory to stay free from oxide.

CABLE: Wire brush Cual-Aid into the strands of aluminum cable. This removes oxide coating from the strands, and prevents it from re-forming.

BAR: Wire-brush Cual-Aid across the surface of bar. This removed oxide coating from the surface and prevents it from re-forming.

WEDGE DEAD END CLAMP • TYPE WDC

A service-drop, sliding type dead end clamp for use on solid and stranded aluminum or ACSR conductors.

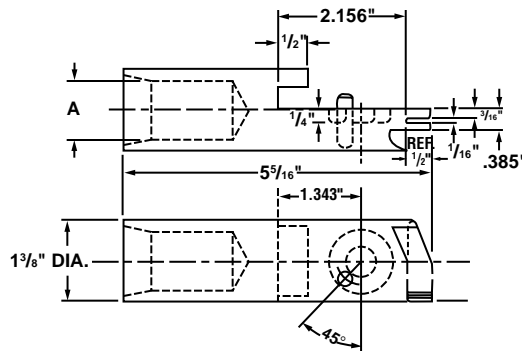


| Catalog Number | Conductor Size | | Approximate Dimensions | | | | | Approx. Shpg. Wt. per 100 pcs. |
|----------------|------------------------------|------------------------------------|------------------------|--------|---------|------|----|--------------------------------|
| | | | F | L | M | O | R | |
| | Minimum | Maximum | in | in | in | in | in | |
| WDC-2S* | 6 Stranded Al. 6 ACSR 6/1 | 1/0 Solid Al. 2 ACSR 6/1 or 7/1 | 4 1/2 | 10 3/4 | 3 | 1/8 | 1 | 21 |
| WDC-10S | 4 ACSR 6/1 or 7/1 | 1/0 ACSR 6/1 | 6 7/8 | 12 7/8 | 3 11/16 | 5/32 | 1 | 44 |

*RUS accepted

COPPER CLASP CONNECTORS • TYPE LLCS

Solder type LLCS

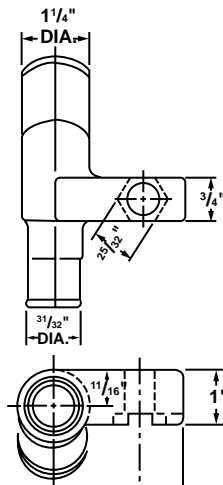


SOLDER TYPE LLCS

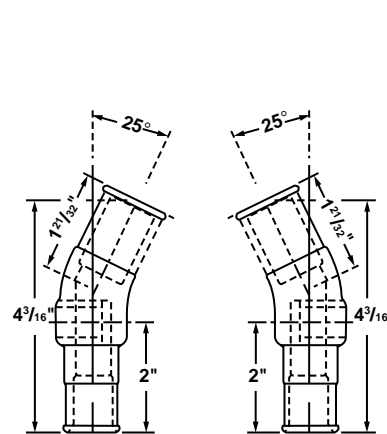
| Catalog Number | Cable Hole Dia. A |
|----------------|-------------------|
| LLCS-38072 | 15/16" |
| LLCS-38073 | 1" |

Note: For silver plating on LLCS add -SV suffix to catalog number.

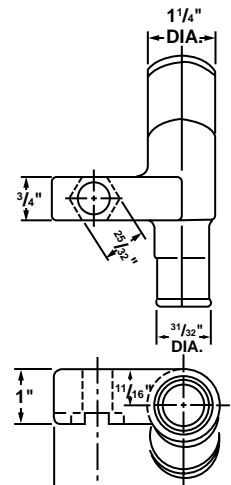
CAST COPPER REDUCERS • TYPE LLR



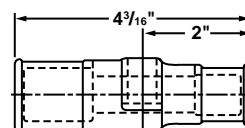
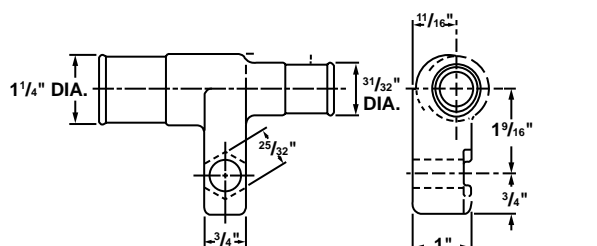
LLR-35569-LH 25
1100/24-775/24



All connectors are electro-tin plated.



LLR-35570-RH 25
1100/24-775/24

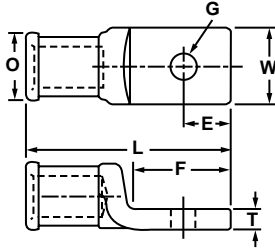


LLR-46103
1100/24-775/24

For 1100/24-550/24 application
 suffix catalog number with 550/24
 For 1100/24 End use T & B Die 99
 For 775/24 End use T & B Die 76
 For 550/24 End use T & B Die 76

CAST COPPER LUGS – SIDE FORMED • TYPE LL

One hole



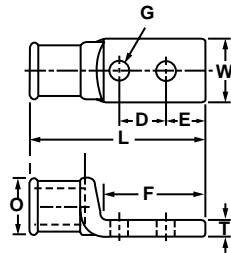
These heavy duty compression lugs are cast out of high conductivity copper. The entire lug is electro-tin plated.

| Catalog Number | Cable Size | Approximate Dimensions in Inches | | | | | | | T&B Die Size |
|----------------|------------|----------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------|
| | | L | F | E | G Hole Size | O | W | T | |
| LL-49765-S-SF | 150/24 | 1 ⁷ / ₈ | 1 ³ / ₁₆ | 3 ³ / ₈ | 9 ⁹ / ₃₂ | 2 ¹ / ₃₂ | 5 ⁵ / ₈ | 3 ³ / ₁₆ | 50 |
| LL-47244-S-SF | 225/24 | 2 ¹ / ₈ | 1 | 7 ⁷ / ₁₆ | 7 ⁷ / ₁₆ | 2 ³ / ₃₂ | 1 ³ / ₁₆ | 7 ⁷ / ₃₂ | 54 |
| LL-41157-S-SF | 275/24 | 2 ¹ / ₈ | 1 | 7 ⁷ / ₁₆ | 7 ⁷ / ₁₆ | 2 ³ / ₃₂ | 1 ³ / ₁₆ | 7 ⁷ / ₃₂ | 54 |
| LL-53178-S-SF | 325/24 | 2 ¹ / ₈ | 1 | 7 ⁷ / ₁₆ | 7 ⁷ / ₁₆ | 2 ³ / ₃₂ | 1 ³ / ₁₆ | 7 ⁷ / ₃₂ | 54 |
| LL-45087-S-SF | 375/24 | 2 ¹ / ₂ | 1 ¹ / ₄ | 9 ⁹ / ₁₆ | 7 ⁷ / ₁₆ | 2 ⁵ / ₃₂ | 1 | 1 ¹ / ₄ | 60 |
| LL-44593-S-SF | 450/24 | 2 ¹ / ₂ | 1 ¹ / ₄ | 1 ⁷ / ₃₂ | 2 ¹ / ₃₂ | 2 ⁵ / ₃₂ | 1 | 1 ¹ / ₄ | 60 |
| LL-41158-S-SF | 450/24 | 2 ¹ / ₂ | 1 ¹ / ₄ | 1 ⁷ / ₃₂ | 7 ⁷ / ₁₆ | 2 ⁵ / ₃₂ | 1 | 1 ¹ / ₄ | 60 |
| LL-49332-S-SF | 550/24 | 2 ⁷ / ₈ | 1 ¹ / ₂ | 3 ³ / ₄ | 5 ⁵ / ₈ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-44146-S-SF | 550/24 | 2 ⁷ / ₈ | 1 ¹ / ₂ | 3 ³ / ₄ | 1 ³ / ₃₂ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-41159-S-SF | 550/24 | 2 ⁷ / ₈ | 1 ¹ / ₂ | 3 ³ / ₄ | 9 ⁹ / ₁₆ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-42608-S-SF | 650/24 | 2 ⁷ / ₈ | 1 ¹ / ₂ | 3 ³ / ₄ | 9 ⁹ / ₁₆ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-41160-S-SF | 775/24 | 2 ⁷ / ₈ | 1 ¹ / ₂ | 3 ³ / ₄ | 9 ⁹ / ₁₆ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-40305-S-SF | 775/24 | 3 ³ / ₁₆ | 1 ¹ / ₂ | 3 ³ / ₄ | 1 ³ / ₃₂ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-40744-S-SF | 775/24 | 3 ⁵ / ₁₆ | 1 ¹⁵ / ₁₆ | 3 ³ / ₄ | 2 ¹ / ₃₂ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-42873-S-SF | 925/24 | 3 ³ / ₈ | 1 ¹ / ₂ | 3 ³ / ₄ | 9 ⁹ / ₁₆ | 1 ⁵ / ₃₂ | 1 ³ / ₁₆ | 1 ¹¹ / ₃₂ | 87 |
| LL-41149-S-SF | 925/24 | 3 ³ / ₈ | 1 ¹ / ₂ | 3 ³ / ₄ | 1 ¹ / ₁₆ | 1 ⁵ / ₃₂ | 1 ³ / ₁₆ | 1 ¹¹ / ₃₂ | 87 |
| LL-47526-S-SF | 1100/24 | 4 | 2 | 7 ⁷ / ₈ | 9 ⁹ / ₁₆ | 1 ¹¹ / ₃₂ | 1 ⁵ / ₈ | 1 ³ / ₃₂ | 99 |
| LL-44127-S-SF | 1325/24 | 4 | 2 | 7 ⁷ / ₈ | 9 ⁹ / ₁₆ | 1 ³ / ₈ | 1 ⁵ / ₈ | 1 ³ / ₃₂ | 107 |
| LL-44231-S-SF | 1600/24 | 4 ¹ / ₄ | 2 ¹ / ₈ | 1 | 9 ⁹ / ₁₆ | 1 ⁷ / ₁₆ | 1 ⁵ / ₈ | 7 ⁷ / ₁₆ | 112 |
| LL-47742-S-SF | 1600/24 | 4 ¹ / ₄ | 2 ¹ / ₈ | 1 | 3 ³ / ₄ | 1 ⁷ / ₁₆ | 1 ⁵ / ₈ | 7 ⁷ / ₁₆ | 112 |
| LL-47833-S-SF | 1600/24 | 4 ¹ / ₄ | 2 ¹ / ₈ | 1 | 7 ⁷ / ₁₆ | 1 ⁷ / ₁₆ | 1 ⁵ / ₈ | 7 ⁷ / ₁₆ | 112 |
| LL-40862-S-SF | 1925/24 | 4 ¹ / ₄ | 2 ¹ / ₈ | 1 | 9 ⁹ / ₁₆ | 1 ⁷ / ₁₆ | 1 ⁵ / ₈ | 7 ⁷ / ₁₆ | 112 |
| LL-50747-S-SF | 2300/24 | 4 ³ / ₄ | 2 ³ / ₈ | 1 ³ / ₁₆ | 1 ¹ / ₁₆ | 1 ²¹ / ₃₂ | 1 ⁷ / ₈ | 1 ¹ / ₂ | 130 |

For blank pad, add suffix -U to catalog number.

CAST COPPER LUGS – SIDE FORMED • TYPE LL

Two hole



These heavy duty compression lugs are cast out of high conductivity copper. The entire lug is electro-tin plated.

| Catalog Number | Cable Size | Approximate Dimensions in Inches | | | | | | | T&B Die Size | |
|----------------|------------|----------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-----|
| | | L | F | D | E | G Hole Size | O | W | | T |
| LL-51797-D-SF | 150/24 | 3 ¹ / ₁₆ | 2 | 1 | 1 ¹ / ₃₂ | 9 ⁹ / ₃₂ | 2 ¹ / ₃₂ | 5 ⁵ / ₈ | 3 ³ / ₁₆ | 50 |
| LL-49763-D-SF | 225/24 | 3 ¹ / ₈ | 2 | 1 | 1 ¹ / ₂ | 7 ⁷ / ₁₆ | 2 ³ / ₃₂ | 1 ³ / ₁₆ | 7 ⁷ / ₃₂ | 54 |
| LL-49764-D-SF | 275/24 | 3 ¹ / ₈ | 2 | 1 | 1 ¹ / ₂ | 7 ⁷ / ₁₆ | 2 ³ / ₃₂ | 1 ³ / ₁₆ | 7 ⁷ / ₃₂ | 54 |
| LL-46111-D-SF | 450/24 | 4 ¹ / ₄ | 3 | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 2 ⁵ / ₃₂ | 1 | 1 ¹ / ₄ | 60 |
| LL-49238-D-SF | 550/24 | 3 ⁵ / ₁₆ | 1 ¹⁵ / ₁₆ | 1 | 1 ¹ / ₂ | 1 ³ / ₃₂ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-41147-D-SF | 550/24 | 4 ³ / ₈ | 3 | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-47272-D-SF | 650/24 | 4 ³ / ₈ | 3 | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-50774-D-SF | 775/24 | 2 ⁷ / ₈ | 1 ¹ / ₂ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 1 ¹ / ₃₂ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-52076-D-SF | 775/24 | 3 ⁵ / ₁₆ | 1 ¹⁵ / ₁₆ | 7 ⁷ / ₈ | 3 ³ / ₄ | 1 ¹ / ₃₂ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-40467-D-SF | 775/24 | 3 ⁵ / ₁₆ | 1 ¹⁵ / ₁₆ | 1 | 1 ¹ / ₂ | 1 ³ / ₃₂ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-49761-D-SF | 775/24 | 4 ³ / ₈ | 3 | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ³ / ₆₄ | 1 ³ / ₁₆ | 5 ⁵ / ₁₆ | 76 |
| LL-40743-D-SF | 925/24 | 4 ³ / ₈ | 2 ¹ / ₂ | 1 | 7 ⁷ / ₁₆ | 1 ³ / ₃₂ | 1 ⁵ / ₃₂ | 1 ³ / ₁₆ | 1 ¹¹ / ₃₂ | 87 |
| LL-41152-D-SF | 925/24 | 5 ⁵ / ₈ | 3 ³ / ₂ | 1 | 7 ⁷ / ₁₆ | 7 ⁷ / ₁₆ | 1 ⁵ / ₃₂ | 1 ³ / ₁₆ | 1 ¹¹ / ₃₂ | 87 |
| LL-47521-D-SF | 925/24 | 5 ⁵ / ₈ | 3 ³ / ₂ | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ⁵ / ₃₂ | 1 ³ / ₁₆ | 1 ¹¹ / ₃₂ | 87 |
| LL-50963-D-SF | 1100/24 | 5 ¹ / ₂ | 3 ¹ / ₂ | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ³ / ₈ | 1 ⁵ / ₈ | 1 ³ / ₃₂ | 107 |
| LL-41151-D-SF | 1325/24 | 5 ¹ / ₂ | 3 ¹ / ₂ | 1 | 1 ¹ / ₂ | 7 ⁷ / ₁₆ | 1 ³ / ₈ | 1 ⁵ / ₈ | 1 ³ / ₃₂ | 107 |
| LL-41148-D-SF | 1325/24 | 5 ¹ / ₂ | 3 ¹ / ₂ | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ³ / ₈ | 1 ⁵ / ₈ | 1 ³ / ₃₂ | 107 |
| LL-49758-D-SF | 1600/24 | 5 ⁵ / ₈ | 3 ¹ / ₂ | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ⁷ / ₁₆ | 1 ⁵ / ₈ | 7 ⁷ / ₁₆ | 112 |
| LL-52943-D-SF | 1925/24 | 4 | 2 ¹ / ₁₆ | 1 | 7 ⁷ / ₁₆ | 7 ⁷ / ₁₆ | 1 ⁷ / ₁₆ | 2 | 5 ⁵ / ₁₆ | 112 |
| LL-41150-D-SF | 1925/24 | 4 ¹ / ₄ | 2 ¹ / ₈ | 1 | 7 ⁷ / ₁₆ | 1 ³ / ₃₂ | 1 ⁷ / ₁₆ | 1 ⁵ / ₈ | 7 ⁷ / ₁₆ | 112 |
| LL-42683-D-SF | 1925/24 | 5 ⁵ / ₈ | 3 ¹ / ₂ | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ⁷ / ₁₆ | 1 ⁵ / ₈ | 7 ⁷ / ₁₆ | 112 |
| LL-49532-D-SF | 2000/25 | 5 ⁵ / ₈ | 3 ¹ / ₂ | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ⁷ / ₁₆ | 1 ⁵ / ₈ | 7 ⁷ / ₁₆ | 112 |
| LL-47522-D-SF | 2300/24 | 5 ⁷ / ₈ | 3 ¹ / ₂ | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ²¹ / ₃₂ | 1 ⁷ / ₈ | 1 ¹ / ₂ | 130 |
| LL-50651-D-SF | 2750/24 | 6 ³ / ₈ | 3 ¹ / ₂ | 1 ³ / ₄ | 5 ⁵ / ₈ | 9 ⁹ / ₁₆ | 1 ²⁹ / ₃₂ | 2 ¹ / ₈ | 9 ⁹ / ₁₆ | 150 |

CAST COPPER LUGS – CENTER FORMED • TYPE LL

Two hole

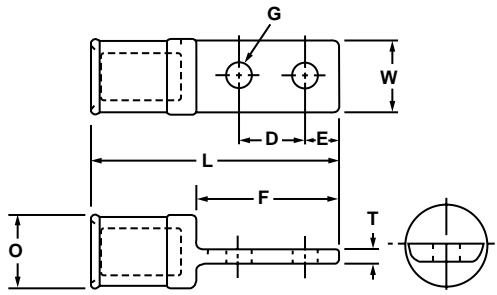


Fig. 1

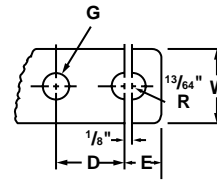


Fig. 2

Entire connector is electro-tin plated.

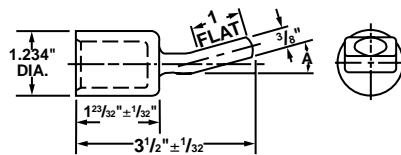
These heavy duty compression lugs are cast out of high conductivity copper and can be installed with existing crimping tools.

| Catalog Number | Cable Size | Fig. No. | Approximate Dimensions in Inches | | | | | | | | T&B Die Size |
|----------------|------------|----------|----------------------------------|--------------------------------|-----|------|-------------|---------------------------------|---------------------------------|-------|--------------|
| | | | L | F | D | E | G Hole Size | O | W | T | |
| LL-47248-D-CF | 133/27 | 1 | 2 ¹⁵ / ₁₆ | 1 ⁷ / ₈ | 7/8 | 7/16 | 11/32 | 21/32 | 19/32 | 13/64 | 50 |
| LL-47271-D-CF | 150/24 | 1 | 2 ¹⁵ / ₁₆ | 1 ⁷ / ₈ | 7/8 | 7/16 | 11/32 | 21/32 | 19/32 | 13/64 | 50 |
| LL-44385-D-CF | 225/24 | 1 | 3 | 1 ⁷ / ₈ | 7/8 | 7/16 | 11/32 | 23/32 | 11/16 | 13/64 | 54 |
| LL-50545-D-CF | 275/24 | 1 | 3 | 1 ⁷ / ₈ | 7/8 | 7/16 | 11/32 | 23/32 | 11/16 | 13/64 | 54 |
| LL-44075-D-CF | 325/24 | 1 | 3 | 1 ⁷ / ₈ | 7/8 | 7/16 | 11/32 | 23/32 | 11/16 | 13/64 | 54 |
| LL-41155-D-CF | 375/24 | 1 | 3 ¹ / ₈ | 2 | 7/8 | 7/16 | 11/32 | 25/32 | 25/32 | 13/64 | 60 |
| LL-41156-D-CF | 450/24 | 1 | 3 ¹ / ₈ | 2 | 7/8 | 7/16 | 11/32 | 25/32 | 25/32 | 13/64 | 60 |
| LL-36996-D-CF | 550/24 | 1 | 3 ³ / ₁₆ | 1 ⁷ / ₈ | 7/8 | 7/16 | 11/32 | 1 ³ / ₆₄ | 15/16 | 13/64 | 76 |
| LL-42596-D-CF | 650/24 | 1 | 3 ³ / ₁₆ | 1 ⁷ / ₈ | 7/8 | 7/16 | 11/32 | 1 ³ / ₆₄ | 15/16 | 13/64 | 76 |
| LL-41153-D-CF | 775/24 | 1 | 3 ³ / ₁₆ | 1 ⁷ / ₈ | 7/8 | 7/16 | 11/32 | 1 ³ / ₆₄ | 15/16 | 13/64 | 76 |
| LL-44131-D-CF | 925/24 | 1 | 3 ³ / ₄ | 2 ¹ / ₁₆ | 1 | 7/16 | 13/32 | 1 ³ / ₁₆ | 1 ¹ / ₈ | 3/8 | 87 |
| LL-44573-D-CF | 1100/24 | 1 | 3 ³ / ₄ | 2 ¹ / ₁₆ | 1 | 7/16 | 13/32 | 1 ¹¹ / ₃₂ | 1 ¹¹ / ₃₂ | 3/8 | 99 |
| LL-44096-D-CF | 1325/24 | 1 | 3 ³ / ₄ | 2 ¹ / ₁₆ | 1 | 7/16 | 13/32 | 1 ³ / ₈ | 1 ¹¹ / ₃₂ | 3/8 | 107 |
| LL-43606-D-CF | 1325/24 | 2 | 3 ³ / ₄ | 2 ¹ / ₁₆ | 7/8 | 9/16 | 13/32 | 1 ³ / ₈ | 1 ¹¹ / ₃₂ | 3/8 | 107 |
| LL-50429-D-CF | 1600/24 | 1 | 3 ³ / ₄ | 2 ¹ / ₁₆ | 1 | 7/16 | 13/32 | 1 ³ / ₈ | 1 ¹¹ / ₃₂ | 3/8 | 107 |
| LL-41154-D-CF | 1925/24 | 2 | 3 ¹³ / ₁₆ | 2 ¹ / ₁₆ | 7/8 | 9/16 | 13/32 | 1 ⁷ / ₁₆ | 1 ⁷ / ₁₆ | 3/8 | 112 |
| LL-42684-D-CF | 2300/24 | 1 | 4 ³ / ₈ | 2 ¹ / ₈ | 1 | 7/16 | 13/32 | 1 ²¹ / ₃₂ | 1 ¹⁹ / ₃₂ | 3/8 | 130 |

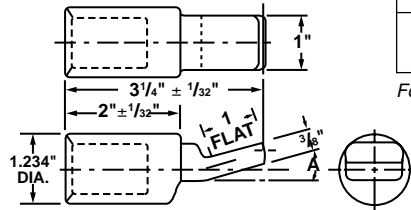
For blank pad add suffix -U to catalog number.

CAST COPPER LUGS – MISCELLANEOUS • TYPE LL

For 1100/24



LL-44879-U-15



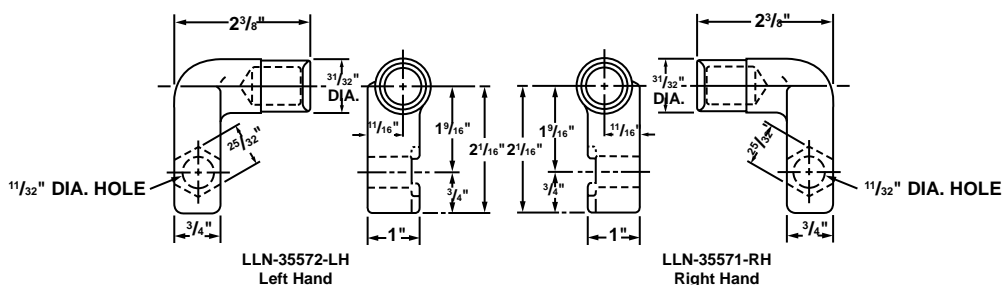
LL-39640-U-30

| Cat. No. | A |
|---------------|-----|
| LL-44879-U-15 | 15° |
| LL-39640-U-30 | 30° |

For 1100/24 use T&B Die 99

CAST COPPER LUGS – 90° • TYPE LLN

775/24*



*Also available in 550/24. Order using suffix "550/24". For 550/24 use T&B Die 76.

You can always find the right terminal where you find a Point-Of-Profit® Merchandising Display

Convenient Packaging for the right size and style of connector in the quantity that best fits your needs.



Prominently displayed on our gravity window box dispenser or the small quantity polybag rack, Penn-Crimps® can be recognized quickly for faster counter transactions.



All types of merchandising packaging, bags, window boxes and bulk bins can be displayed on the Penn-Union 3 foot long gondola.



WINDOW BOXES

- Standard quantities of 100 or 500 per box.
- Compact box has a heavy-duty plastic window to resist puncturing and an eye-catching red, white and blue design for increased visibility.
- Displayed in an attractive, compact, two-tiered gravity feed dispenser display. Display holds up to 72 boxes of 12 different styles of Penn-Crimps solderless terminals. At 22" wide by 21 1/2" tall, it easily fits on the counter or can hang from pegboard for easy display.



SMALL QUANTITY POLYBAGS

- Available in quantities of 50, 25 or 10 terminals per bag, perfect for small jobs.
- Heavy-duty, puncture-resistant polybag is sealed at the top to prevent tampering before purchase and has a resealable closure for repeated use afterwards.
- Eye-catching red, white and blue labels are easily recognized hanging on a lightweight, wire rack display, which at 14" tall by 16" wide, saves space either sitting on the countertop or hanging on pegboard.



**TYPE A
BUS BAR CLAMPS**



**TYPE AB
TEE CONNECTOR**



**TYPE AB15
ANGLE TEE
CONNECTOR**



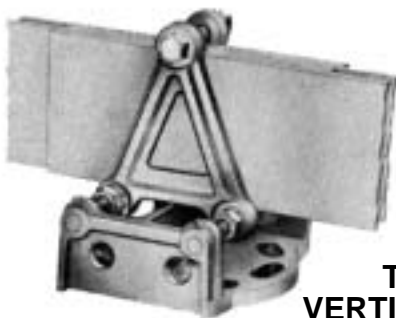
**TYPE ABR2T
TEE CONNECTOR**



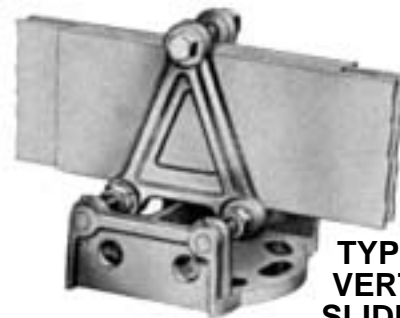
**TYPE AHC
HORIZONTAL BUS
SUPPORT CLAMPS**



**TYPE AVB
VERTICAL BUS
SUPPORT CLAMPS**



**TYPE AVC
VERTICAL BUS
SUPPORT CLAMPS**



**TYPE AVS
VERTICAL
SLIDE BUS
SUPPORT CLAMPS**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



**TYPE BAC
BUS SUPPORT COUPLER**



**TYPE BD
COUPLERS AND REDUCERS**



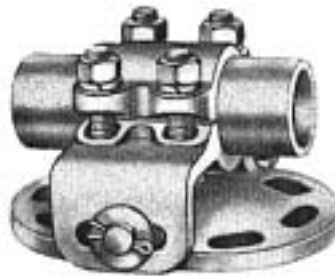
**TYPE BSC
SLIDE BUS SUPPORT COUPLER**



**TYPE BSE
EXPANSION BUS
SUPPORT COUPLER**



**TYPE BSH
EXPANSION BUS
SUPPORT COUPLER**



**TYPE BSS
SLIDE BUS SUPPORT CLAMP**



**TYPE BST
BUS SUPPORT CLAMP**



**TYPE BSV
VERTICAL BUS
SUPPORT CLAMP**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



**TYPE CBSS
SLIDE BUS SUPPORT**



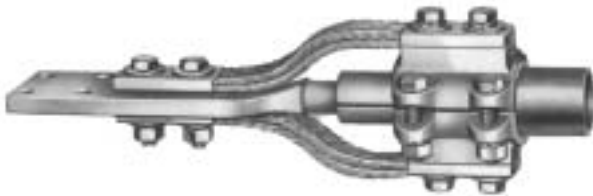
**TYPE CTL
TEE CONNECTOR**



**TYPE DTC
STUD CONNECTOR**



**TYPE DTU
STUD CONNECTOR**



**TYPE EXB
EXPANSION TERMINALS**



**TYPE EXBW
EXPANSION TERMINALS**



**TYPE EXP
EXPANSION TEE
CONNECTORS**



**TYPE EXPW
EXPANSION TEE CONNECTORS**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



**TYPE EXS
EXPANSION STUD
CONNECTORS**



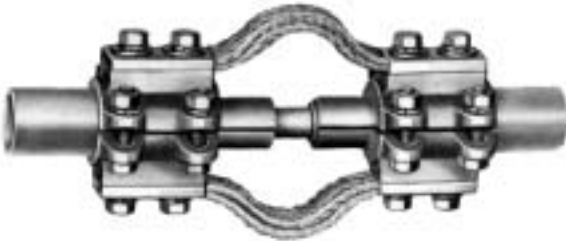
**TYPE EXSW
EXPANSION STUD
CONNECTORS**



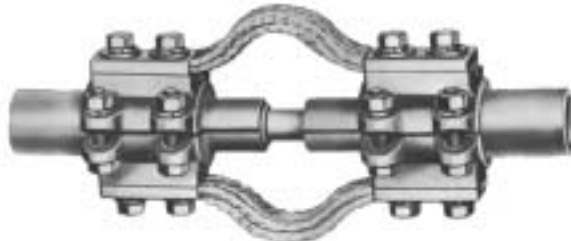
**TYPE EXS90
90° EXPANSION STUD
CONNECTORS**



**TYPE EXSW90
90° EXPANSION STUD
CONNECTORS**



**TYPE EXT
EXPANSION COUPLERS**



**TYPE EXTW
EXPANSION COUPLERS**



**TYPE GI
GROUNDING INSERT – VARIED CABLE**



**TYPE GIC
GROUNDING INSERT**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



**TYPE GXA
GROUND CLAMP CONNECTORS**



**TYPE H
BUS BAR CLAMPS**



HN



CNF



CNP

HARDWARE



HHB



**FW
FLAT
WASHER**



**SPLIT
LOCK
WASHER**

HARDWARE



CPW

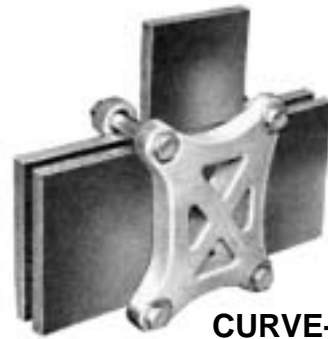


**EXTERNAL
TOOTH**



**INTERNAL
TOOTH**

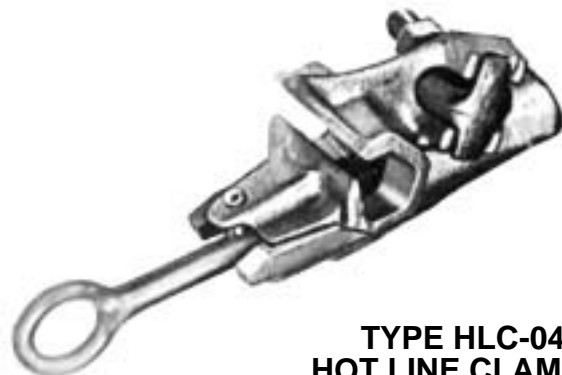
**HARDWARE
SHAKEPROOF**



**TYPE HCB
CURVE-BACK BUS
BAR CLAMPS**



**TYPE HHC
HORIZONTAL BUS
SUPPORT CLAMPS**



**TYPE HLC-040
HOT LINE CLAMP**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



**TYPE HP
BUS BAR SPACERS**



**TYPE HVC
VERTICAL BUS
SUPPORT CLAMPS**



**TYPE HVS
VERTICAL SLIDE BUS
SUPPORT CLAMPS**



**TYPE MF
MULTIFIT TERMINAL LUG**



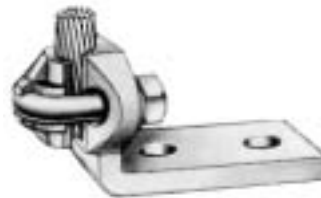
**TYPE MFF
MULTIFIT TERMINAL LUG**



**TYPE ML-1
MULTIFIT TERMINAL LUGS**



**TYPE ML-2
MULTIFIT TERMINAL LUGS**



**TYPE ML90
MULTIFIT TERMINAL LUGS**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



**TYPE MML
MULTIFIT TERMINAL LUG**



**TYPE MML2
MULTIFIT TERMINAL LUG**



**TYPE MML90
MULTIFIT TERMINAL LUG**



**TYPE MMTT
MULTIFIT TEE CONNECTORS**



**TYPE MT
MULTIFIT TEE CONNECTORS**



**TYPE MTT
MULTIFIT TEE CONNECTORS**



**TYPE RC
TERMINAL LUGS**



**TYPE RCS
STUD CONNECTOR**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



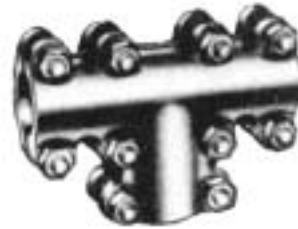
**TYPE SCT
SERVICE POST CONNECTORS**



**TYPE SLB-90
STUD CONNECTOR**



**TYPE SLBH
STUD CONNECTOR**



**TYPE TC
TEE COUPLER**



**TYPE TVB
TEE CONNECTOR**



**TYPE VB30
VEE CONNECTOR**



**VI-TITE
45° SQUARE FLANGE**



**VI-TITE 90°
SQUARE FLANGE**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



**VI-TITE CENTER
SQUARE FLANGE**



**VI-TITE 45°
ROUND FLANGE**



**VI-TITE 90°
ROUND FLANGE**



**VI-TITE CENTER
ROUND FLANGE**



**VI-TITE SIDE CENTER
SQUARE FLANGE**



**VI-TITE SIDE OFFSET
SQUARE FLANGE**

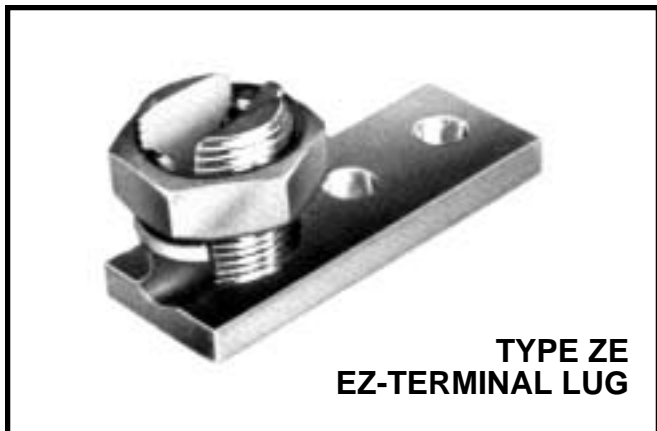


**TYPE VSF
STUD CONNECTOR**



**TYPE VSM
STUD CONNECTOR**

The products shown are available as special orders only. Please consult the factory for pricing and availability.



**TYPE ZN
EZ-TERMINAL LUG**



**TYPE ZW
EZ-TERMINAL LUG**

The products shown are available as special orders only. Please consult the factory for pricing and availability.

TECHNICAL REFERENCE

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This comparative listing is intended for use as a product substitution guide. It presents a comparison of products believed to be competitive but in no way guarantees that such products are identical or interchangeable.

Before making any substitution, the user should carefully review the installation requirements and critical fit data such as conductor size or range, stud size, pipe size, etc.

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COPPER PENN-CRIMPS® COMPARATIVE LISTING

| PUC Catalog Number | Panduit Catalog Number | T & B Catalog Number | 3M Catalog Number | Burndy Catalog Number |
|------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------|
| RING TERMINALS – NON-INSULATED* | | | | |
| R2A-6S R2A-8 R2A-8S R2A-10 R2A-14S R2A-56S R2A-38 | P18-6R P18-8R — P18-10R P18-14R P18-56R P18-38R | A18-6 A18-8 — A18-10 A18-14 A18-516 A18-38 | M18-6R/SX — M18-8R/LX M18-10R/LX — — — | T18-6 T18-8 — T18-10 T18-14 T18-516 T18-38 |
| R2B-6 R2B-6S R2B-8 R2B-8S R2B-10 R2B-14S R2B-56S R2B-38 | — P14-6R P14-8R — P14-10R P14-14R P14-56R P14-38R | B14-6 — B14-8 — B14-10 B14-14 B14-516 B14-38 | — M14-6R/SX — M14-8R/LX M14-10R/LX M14-14R/SX — — | — T14-6 T14-8 — T14-10 T14-14 T14-516 T14-38 |
| R2C-6S R2C-8S R2C-10 R2C-14S R2C-56S R2C-38 | P10-6R P10-8R P10-10R P10-14R P10-56R P10-38R | C10-6 C10-8 C10-10 C10-14 C10-516 C10-38 | M10-6RX M10-8RX M10-10RX M10-14R/SX — — | — — T10-10 T10-14 T10-516 T10-38 |
| R2E-8SS R2E-10S R2E-14S R2E-56 R2E-38 R2E-50 | P8-8R P8-10R P8-14R P8-56R P8-38R P8-12R | — D8-10 D8-14 D8-516 D8-38 D8-12 | M8-10R/SX M8-14R/SX M8-516RX M8-38RX — — | — — — — — — |
| R2F-10S R2F-14S R2F-56 R2F-38 R2F-50 | P6-10R P6-14R P6-56R P6-38R P6-12R | E6-10 E6-14 E6-516 E6-38 E6-12 | M6-10R/SX M6-14R/SX M6-516RX M6-38RX — — | — — — — — — |
| R2G-10S R2G-14S R2G-56 R2G-38 R2G-50 | P4-10R P4-14R P4-56R P4-38R P4-12R | F4-10 F4-14 F4-516 F4-38 F4-12 | — M4-14RX M4-516RX M4-38RX — — | — — — — — — |

| INSULATED RING TERMINALS – VINYL* | | | | |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| R4A-6S R4A-8 R4A-8S R4A-10 R4A-14S R4A-56S R4A-38 | PV18-6R PV18-8R — PV18-10R PV18-14R PV18-56R PV18-38R | 18RA-6 18RA-8 — 18RA-10 18RA-14 18RA-516 18RA-38 | MV18-6R/SX — MV18-8R/LX MV18-10R/LX MV18-14R/SX — MV18-38RX | TP16-6 TP16-8 — TP16-10 TP16-14 — — |
| R4B-6 R4B-6S R4B-8 R4B-8S R4B-10 R4B-14 R4B-56 R4B-56S R4B-38 | PV14-6R PV14-6RN PV14-8R — PV14-10R PV14-14R PV14-56R — PV14-38R | 14RB-6 — 14RB-8 — 14RB-10 14RB-14 14RB-516 — 14RB-38 | MV14-6R/SX — MV14-8R/LX MV14-10R/LX MV14-14R/SX — — — MV14-38RX | TP14-6 TP14-8 — — TP14-10 TP14-14 — — — |
| R4C-6S R4C-8S R4C-10 R4C-14S R4C-56S R4C-38 | PV10-6R(X) + PV10-8R(X) + PV10-10R(X) + PV10-14R(X) + PV10-56R(X) + PV10-38R(X) + | 10RC-6(X) + 10RC-8(X) + 10RC-10(X) + 10RC-14(X) + 10RC-516(X) + 10RC-38(X) + | MV10-6RX MV10-8RX MV10-10RX MV10-14R/SX MV10-516R/SX — | TP10-6 — TP10-10 TP10-14 — TP10-38 |

| NYLON INSULATED* | | | | |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| R6A-6S R6A-8 R6A-8S R6A-10 R6A-14S R6A-56S R6A-38 | PNF18-6R PNF18-8R — PNF18-10R PNF18-14R PNF18-56R PNF18-38R | RA18-6 — RA18-8 RA18-10 RA18-14 RA18-516 RA18-38 | MNG18-6R/SX — MNG18-8R/LX MNG18-10R/LX — — — | TN18-6 TN18-8 — TN18-10 TN18-14 TN18-516 TN18-38 |
| R6B-6 R6B-6S R6B-8 R6B-8S R6B-10 R6B-14S R6B-56 R6B-56S R6B-38 | PNF14-6R PNF14-6RN PNF14-8R — PNF14-10R PNF14-14R — PNF14-56R PNF14-38R | RB14-6 — RB14-8 — RB14-10 RB14-14 — RB14-516 RB14-38 | — MNG14-6R/SX — MNG14-8R/LX MNG14-10R/LX MNG14-14R/SX — — — | — TN14-6 TN14-8 — TN14-10 TN14-14 — TN14-516 TN14-38 |
| R6C-6 R6C-6S R6C-8 R6C-8S R6C-10 R6C-14S R6C-56S R6C-38 | PNF10-6R — PNF10-8R — PNF10-10R PNF10-14R PNF10-56R PNF10-38R | RC10-6(X) + — RC10-8(X) + — RC10-10(X) + RC10-14(X) + RC10-516(X) + RC10-38(X) + | — MNG10-6RX — MNG10-8RX MNG10-10RX MNG10-14R/SX — — | TN10-6 — TN10-8 — TN10-10 TN10-14 TN10-516 TN10-38 |

| PUC Catalog Number | Panduit Catalog Number | T & B Catalog Number | 3M Catalog Number | Burndy Catalog Number |
|------------------------------------------------------|----------------------------|----------------------------|------------------------------------------------------------------|----------------------------|
| SPADE TERMINALS – NON INSULATED* | | | | |
| S2A-6 S2A-8 S2B-8 S2B-10 S2C-8 S2C-10 | — — — — — — | — — — — — — | M18-6FX M18-8FX M14-8FX M14-10FX M10-8FX M10-10FX | — — — — — — |

| INSULATED SPADE TERMINALS – VINYL* | | | | |
|-------------------------------------------|-------------|-------------|-----------------------------------|-------------|
| S4A-6 S4A-8 S4A-10 | — — — | — — — | MV18-6FX MV18-8FX MV18-10FX | — — — |
| S4B-6 S4B-8 S4B-10 | — — — | — — — | MV14-6FX MV14-8FX MV14-10FX | — — — |
| S4C-6 S4C-8 S4C-10 | — — — | — — — | MV10-6FX MV10-8FX MV10-10FX | — — — |

| INSULATED SPADE TERMINALS – NYLON* | | | | |
|-------------------------------------------|-------------|-------------|--------------------------------------|-------------|
| S6A-6 S6A-8 S6A-10 | — — — | — — — | MNG18-6FX MNG18-8FX MNG18-10FX | — — — |
| S6B-6 S6B-8 S6B-10 | — — — | — — — | MNG14-6FX MNG14-8FX MNG14-10FX | — — — |
| S6C-8 S6C-10 | — — | — — | MNG10-8FX MNG10-10FX | — — |

| BLOCK SPADE TERMINALS – NON-INSULATED* | | | | |
|-----------------------------------------------|----------------------------------|----------------------------------|----------------------------------------|----------------------------------|
| BS2A-6 BS2A-6S BS2A-8 BS2A-10 | P18-6F — P18-8F P18-10F | — A18-6F A18-8F A18-10F | M18-6FBX — M18-8FBX — | T18-6F — T18-8F T18-10F |
| BS2B-6 BS2B-6S BS2B-8 BS2B-10 | P14-6F — P14-8F P14-10F | B14-6F — B14-8F B14-10F | — M14-6FBX M14-8FBX M14-10FBX | T14-6F — T14-8F T14-10F |
| BS2C-6 BS2C-8 BS2C-10 | P10-6F P10-8F P10-10F | C10-6F C10-8F C10-10F | — M10-8FBX M10-10FBX | T10-6F T10-8F T10-10F |

| INSULATED BLOCK SPADE TERMINALS – VINYL* | | | | |
|-------------------------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------|-------------------------------------|
| BS4A-6 BS4A-6S BS4A-8 BS4A-10 | PV18-6F — PV18-8F PV18-10F | — 18RA-6F 18RA-8F 18RA-10F | — MV18-6FBX MV18-8FBX MV18-10FBX | TP16-6F — TP16-8F TP16-10F |
| BS4B-6 BS4B-6S BS4B-8 BS4B-10 | PV14-6F — PV14-8F PV14-10F | 14RB-6F — 14RB-8F 14RB-10F | — MV14-6FBX MV14-8FBX MV14-10FBX | TP14-6F — TP14-8F TP14-10F |
| BS4C-6 BS4C-8 BS4C-10 | PV10-6F PV10-8F(X) + PV10-10F(X) + | 10RC-6F 10RC-8F(X) + 10RC-10F(X) + | MV10-6FBX MV10-8FBX MV10-10FBX | TP10-6F TP10-8F TP10-10F |

| INSULATED BLOCK SPADE TERMINALS – NYLON* | | | | |
|-------------------------------------------------|----------------------------------------|-------------------------------------|----------------------------------------------|-------------------------------------|
| BS6A-6 BS6A-6S BS6A-8 BS6A-10 | PNF18-6F — PNF18-8F PNF18-10F | — RA18-6F RA18-8F RA18-10F | — MNG18-6FBX MNG18-8FBX MNG18-10FBX | TN18-6F — TN18-8F TN18-10F |
| BS6B-6 BS6B-6S BS6B-8 BS6B-10 | PNF14-6F — PNF14-8F PNF14-10F | RB14-6F — RB14-8F RB14-10F | — MNG14-6FBX MNG14-8FBX MNG14-10FBX | TN14-6F — TN14-8F TN14-10F |
| BS6C-6 BS6C-8 BS6C-10 | PNF10-6F PNF10-8F PNF10-10F | RC10-6F RC10-8F RC10-10F | MNG10-6FBX MNG10-8FBX MNG10-10FBX | TN10-6F TN10-8F TN10-10F |

| BLOCK SPADE FLANGED TERMINAL – NON-INSULATED* | | | | |
|------------------------------------------------------|-------------------------------------------|------------------|-----------------------------------------------|------------------|
| BSF2A-8 BSF2B-6 BSF2B-8 BSF2C-10 | P18-8FF P14-6FF P14-8FF P10-10FF | — — — — | M18-8FFB M14-6FFB M14-8FFB M10-10FFB | — — — — |

COPPER PENN-CRIMPS® COMPARATIVE LISTING

| PUC Catalog Number | Panduit Catalog Number | T & B Catalog Number | 3M Catalog Number | Burndy Catalog Number |
|--------------------------------------------------------|-----------------------------------------|-----------------------------------|-----------------------------------------|-----------------------|
| INSULATED BLOCK SPADE FLANGED TERMINAL – NYLON* | | | | |
| BSF6A-6 BSF6A-8 BSF6A-10 | PN18-6FF ^ PN18-8FF ^ PN18-10FF ^ | RA18-6FS RA18-8FS RA18-10FS | MNG18-6FFB MNG18-8FFB MNG18-10FFB | – – – |
| BSF6B-6 BSF6B-8 BSF6B-10 | PN14-6FF ^ PN14-8FF ^ PN14-10FF ^ | RB14-6FS RB14-8FS RB14-10FS | MNG14-6FFB MNG14-8FFB MNG14-10FFB | – – – |
| BSF6C-8 BSF6C-10 | PN10-8FF ^ PN10-10FF ^ | RC10-8FS RC10-10FS | MNG10-8FFB MNG10-10FFB | – – |

| LOCKING SPADE TERMINALS – NON-INSULATED* | | | | |
|-------------------------------------------------|---------------------------------|--------------------------------|-----------------------------------|-------------|
| LS1A-6 LS1A-8 LS1A-10 | P18-6LFW P18-8LF P18-10LF | A18-6FL A18-8FL A18-10FL | M18-6FLX M18-8FLX M18-10FLX | – – – |
| LS1B-6 LS1B-8 LS1B-10 | P14-6LFW P14-8LF P14-10LF | B14-6FL B14-8FL B14-10FL | M14-6FLX M14-8FLX M14-10FLX | – – – |
| LS1C-6 LS1C-8 LS1C-10 | P10-6LF P10-8LF P10-10LF | C10-6FL C10-8FL C10-10FL | M10-6FLX M10-8FLX M10-10FLX | – – – |

| INSULATED LOCKING SPADE TERMINALS – VINYL* | | | | |
|---------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------|-----------------------------------|
| LS4A-6 LS4A-8 LS4A-10 | PV18-6LFW PV18-8LF PV18-10LF | 18RA-6FL 18RA-8FL 18RA-10FL | MV18-6FLX MV18-8FLX MV18-10FLX | TP16-6LF TP16-8LF TP16-10LF |
| LS4B-6 LS4B-8 LS4B-10 | PV14-6LFW PV14-8LF PV14-10LF | 14RB-6FL 14RB-8FL 14RB-10FL | MV14-6FLX MV14-8FLX MV14-10FLX | TP14-6LF TP14-8LF TP14-10LF |
| LS4C-6 LS4C-8 LS4C-10 | PV10-6LF(X) + PV10-8LF(X) + PV10-10LF(X) + | 10RC-6FL(X) + 10RC-8FL(X) + 10RC-10FL(X) + | MV10-6FLX MV10-8FLX MV10-10FLX | TP10-6LF TP10-8LF TP10-10LF |

| INSULATED LOCKING SPADE TERMINALS – NYLON* | | | | |
|---------------------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------------|-------------|
| LS6A-6 LS6A-8 LS6A-10 | PNF18-6LFW PNF18-8LF PNF18-10LF | RA18-6FL RA18-8FL RA18-10FL | MNG18-6FLX MNG18-8FLX MNG18-10FLX | – – – |
| LS6B-6 LS6B-8 LS6B-10 | PNF14-6LFW PNF14-8LF PNF14-10LF | RB14-6FL RB14-8FL RB14-10FL | MNG14-6FLX MNG14-8FLX MNG14-10FLX | – – – |
| LS6C-6 LS6C-8 LS6C-10 | PNF10-6LF PNF10-8LF PNF10-10LF | RC10-6FL RC10-8FL RC10-10FL | MNG10-6FLX MNG10-8FLX MNG10-10FLX | – – – |

| NON-INSULATED BUTT CONNECTOR | | | | |
|-------------------------------------|----------------------|-------------------------|----------------------------|-------------------------------------|
| B7A B7B B7C | BS18 BS14 BS10 | 2A-18 2B-14 2C-10 | M18BCX M14BCX M10BCX | YSV18-BOX YSV14-BOX YSV10-BOX |
| B7E B7F B7G | – – – | 2D-8 2E-6 2F-4 | M8BCX M6BCX M4BCX | YSV8-L-BOX – – |

| INSULATED BUTT CONNECTORS – VINYL* | | | | |
|-------------------------------------------|---------------------------------|---------------------------------|-----------------------|------------------|
| B4A B4B B4C B4E | BSV18X BSV14X BSV10X – | 2RA18X 2RB14X 2RC10X – | – – – MV8BCX | – – – – |

| INSULATED BUTT CONNECTORS – VINYL – SEAMLESS | | | | |
|-----------------------------------------------------|-------------|-------------|-------------------------------|----------------------|
| B4AB B4BB B4CB | – – – | – – – | MV18BCX MV14BCX MV10BCX | SP16 SP14 SP10 |

| INSULATED BUTT CONNECTORS – NYLON – SEAMLESS | | | | |
|-----------------------------------------------------|-------------------------|-------------------------|-------------------------------|----------------------|
| B8A B8B B8C | BSN18 BSN14 BSN10 | 2RA18 2RB14 2RC10 | MN18BCX MN14BCX MN10BCX | SN18 SN14 SN10 |

| NYLON PIGTAILS – SEAMLESS | | | | |
|----------------------------------|------------------------|--------------|--------------------------|--------|
| NPAB1 NPBC1 | JN218-216 JN418-212 | RB44 RC55 | MN14CEC/ST MN10CEC/ST | – – |

| ADAPTER AND COUPLER | | | | |
|----------------------------|-------------|--------------------|---------------------------|--------|
| MMFA MDT-250 | D250-A – | F250TA RB14-250 | MA250DMMFX MVA250DMMIX | – – |

| PUC Catalog Number | Panduit Catalog Number | T & B Catalog Number | 3M Catalog Number | Burndy Catalog Number |
|-------------------------------------------|----------------------------------|---------------------------------|-----------------------|---------------------------|
| FEMALE DISCONNECTS – NON-INSULATED | | | | |
| FR1A110 FR1A187 FR1A250 | D18-111B D18-188B D18-250B | A18-111F AD18-182 A18-250 | – – MU18-250DFX | – Q18F187D Q18F250D |
| FR1B110 FR1B187 FR1B250 | D14-111B D14-188B D14-250B | B14-111F BD14-182 B14-250 | – – MU14-250DFX | – Q14F187D Q14F250D |
| FR1C250 | D10-250B | C10-250F | – | Q10F250D |

| FEMALE DISCONNECTS – VINYL INSULATED | | | | |
|---------------------------------------------|-----------------------------|-------------------------------|---------------------------------------------------|-----------------------------|
| FR4A187 FR4A250 | DV18-188B • DV18-250B • | 18RAD-182 • 18RA-250F • | – MVU18-250DFX | QP18F187D QP18F250D |
| FR4B110 FR4B187 FR4B250 | – DV14-188B DV14-250B | – 14RBD-182 14RB-250F • | – MVU14-110DFX MVU14-187DFX MVU14-250DFX | – QP14F187D QP14F250D |
| FR4C-250 | – | 10RC-250F • | MVU10-250DFX | QP10F250D |

| FEMALE DISCONNECTS – NYLON INSULATED | | | | |
|---------------------------------------------|-------------------------------------|-------------------------------------|------------------------|-----------------------------|
| FR6A110 FR6A187 FR6A250 | DNF18-111 DNF18-188 DNF18-250 | RA18-111F RAD18-182 RA18-250F | – – MNG18-250DFX | – NQ18F187D NQ18F250D |
| FR6B110 FR6B187 FR6B250 | DNF14-111 DNF14-188 DNF14-250 | RB14-111F RBD14-182 RB14-250F | – – MNG14-250DFX | – NQ14F187D NQ14F250D |
| FR6C250 | – | RC10-250F | MNG10-250DFX | NQ10F250D |

| FEMALE FULLY INSULATED DISCONNECTS | | | | |
|-------------------------------------------|------------------------------|------------------------|--------------------------------|--------|
| CFR4NA250F CFR4NB250F | DNF18-250FIB DNF14-250FIB | 18RA-2577 14RB-2577 | MNU18-250DFIX MNU14-250DFIX | – – |

| MALE FULLY INSULATED DISCONNECTS | | | | |
|-----------------------------------------|------------------------------|------------------------|--------------------------------|--------|
| CM4TNA250F CM4TNB250F | DNF18-250FIM DNF14-250FIM | 18RA-251T 14RB-251T | MNU18-250DMIX MNU14-250DMIX | – – |

| NON-INSULATED MALE DISCONNECTS | | | | |
|------------------------------------------|----------------------------------|----------------------------------------------|--------------------------------------|---------------------------------------|
| MT1A250 MT1B187 MT1B250 MT1C250 | D18-250M D14-250M D10-250M | A18-251T BD14-188 B14-251T C10-251T | – – MU14-250DMX MU10-250DMX | Q18M250D – Q14M250D Q10M250D |

| VINYL INSULATED MALE DISCONNECTS | | | | |
|------------------------------------------|------------------------------------------|--------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|
| MT4A250 MT4B187 MT4B250 MT4C250 | DV18-250M – DV14-250M DV10-250M | 18RA-250T 14RDB-188 14RB-250T 10RC-250T | MVU18-250DMX MVU14-187DMX MVU14-250DMX MVU10-250DMX | QP18M250D QP14M187D QP14M250D QP10M250D |

| NYLON INSULATED MALE DISCONNECTS | | | | |
|-----------------------------------------|----------------------------------------|-------------|----------------------------------------------|-------------------------------------|
| MT6A250 MT6B250 MT6C250 | DNF18-250M DNF14-250M DNF10-250M | – – – | MNG18-250DMX MNG14-250DMX MNG10-250DMX | NQ18M250D NQ14M250D NQ10M250D |

| RING FLAG TERMINALS – NON-INSULATED* | | | | |
|---------------------------------------------|-------------|--------------------------------|-------------------------|-------------|
| FLR1B-6 FLR1B-8 FLR1B-10 | – – – | AB14-6A AB14-8A AB14-10A | – – MU14-10R/FLAG | – – – |
| FLR1C-6 FLR1C-8 FLR1C-10 | – – – | C10-6A C10-8A C10-10A | – – MU10-10R/FLAG | – – – |

* PUC Types 1, 4, 6 and 9 are butted seam.
+ Includes both standard and expanded insulation.
^ PUC design is funnel entry.
** PUC design is .140 Max Insul. Diam.
++ PUC design is nickel plated steel.
^^ PUC wire ranges are 22-18, 16-14 and 12-10.

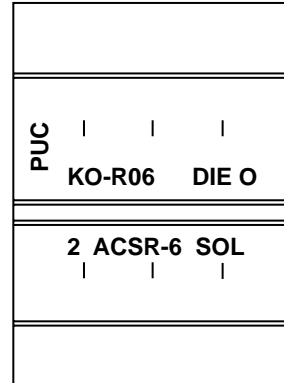
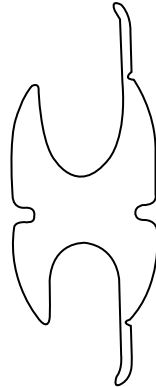
COMPARATIVE LISTING

DISTRIBUTION COMPRESSION CONNECTORS

ALUMINUM PRESS-ONS

7 Connector Program

| | Penn-Union | Blackburn | Burndy | Homac | Kearney |
|---|------------|-----------|----------|---------|---------|
| 1 | KO-R06 | WR-159 | YHO-100 | OB-22 | 506-82 |
| 2 | KO-R08 | WR-189* | YHO-150* | OB-103 | 508-82 |
| 3 | KD-R04 | — | YHD-300 | DB-2020 | — |
| 4 | KD-R02 | WR-289 | YHD-200 | DB-202 | 502-82 |
| 5 | KD-R03 | WR-379 | YHD-250 | DB-404 | 503-82 |
| 6 | KD-R05 | WR-399 | YHD-350 | DB-4020 | 505-82 |
| 7 | KD-R28 | WR-419 | YHD-400 | DB-4040 | 507-82 |
| | KO-R10 | — | — | OB-1010 | — |



*Has greater range than PUC part.

Expanded Range

| Penn-Union | Kearney |
|------------|---------|
| KN-0 | 480 |
| KN-1 | 481 |
| KN-R2 | 482-81 |
| KN-4 | 484 |
| KN-R5 | 485-81 |
| KN-R6 | 486-81 |
| KN-R7 | 487-81 |
| KN-8 | 488 |

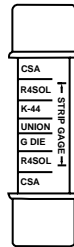
Ultimate Range

| | | | | |
|--------|--------|---------|---|--------|
| KR-R03 | WR-909 | YHR-700 | — | 603-82 |
| KR-R04 | WR-929 | YHR-750 | — | 604-82 |
| KR-R05 | WR-949 | YHR-800 | — | 605-82 |
| KR-R06 | WR-969 | YHR-850 | — | 606-82 |
| KR-R07 | WR-989 | YHR-900 | — | 607-82 |

ALUMINUM PENN – SLEEVES

Pre-Insulated

| Penn-Union | Blackburn | Burndy | Homac | Kearney |
|------------|-----------|----------|---------|---------|
| PIK-88 | — | ES8W8W | — | — |
| PIK-68 | ICS-60 | ES6W8W | U1N81 | 58GBR |
| PIK-66 | ICS-61 | ES6W6W | U1N88 | 58GG |
| PIK-48 | ICS-62 | ES4W8W | U1N61 | 58BLBR |
| PIK-46 | ICS-63 | ES4W6W | U1N68 | 58BLG |
| PIK-44 | ICS-64 | ES4W4W | U1N66 | 58LBL |
| PIK-28 | ICS-65 | ES2W8W | U1N41 | 580BR |
| PIK-26 | ICS-66 | ES2W6W | U1N48 | 580G |
| PIK-24 | ICS-67 | ES2W4W | U1N46 | 580BL |
| PIK-22 | ICS-68 | ES2W2W | U1N44 | 5800 |
| PIK-18 | ICS-69 | ES2R8W | U1N21 | 58RBR |
| PIK-16 | ICS-70 | ES2R6W | U1N28 | 58RG |
| PIK-14 | ICS-71 | ES2R4W | U1N26 | 58RBL |
| PIK-12 | ICS-72 | ES2R2W | U1N24 | 58RO |
| PIK-11 | ICS-73 | ES2R2R | U1N22 | 58RR |
| PIK-08* | ICS-74 | — | — | — |
| PIK-06* | — | ES25R6W | U1N108 | 58YG |
| PIK-04* | ICS-75 | ES25R4W | U1N106 | 58YB |
| PIK-02* | ICS-76 | ES25R2W | U1N104 | 58YO |
| PIK-01* | ICS-77 | ES25R2R | U1N102 | 58YR |
| PIK-00* | ICS-78 | ES25R25R | U1N1010 | 58YY |



Non-Insulated

| Penn-Union | Blackburn | Burndy | Homac | Kearney |
|------------|-----------|-----------|---------|---------|
| PSK-88 | — | — | U1B11 | 36316 |
| PSK-68 | CS-60 | — | U1B81 | 26394 |
| PSK-66 | CS-61 | YSU6W6W | U1B88 | 26427 |
| PSK-48 | CS-62 | YSU4W8W | U1B61 | 26527 |
| PSK-46 | CS-63 | YSU4W6W | U1B68 | 26393 |
| PSK-44 | CS-64 | YSU4W4W | U1B66 | 20693 |
| PSK-28 | CS-65 | YSU2W8W | U1B41 | 26412 |
| PSK-26 | CS-66 | YSU2W6W | U1B48 | 26467 |
| PSK-24 | CS-67 | YSU2W4W | U1B46 | 20692 |
| PSK-22 | CS-68 | YSU2W2W | U1B44 | 20691 |
| PSK-18 | CS-69 | YSU2R8W | U1B21 | 26526 |
| PSK-16 | CS-70 | YSU2R6W | U1B28 | 26525 |
| PSK-14 | CS-71 | YSU2R4W | U1B26 | 20690 |
| PSK-12 | CS-72 | YSU2R2W | U1B24 | 20689 |
| PSK-11 | CS-73 | YSU2R2R | U1B22 | 20688 |
| PSK-08 | — | — | — | — |
| PSK-06 | CS-74 | YSU25R6W | U1B108 | 30933 |
| PSK-04 | CS-75 | YSU25R4W | U1B106 | 30163 |
| PSK-02 | CS-76 | YSU25R2W | U1B104 | 26485 |
| PSK-01 | CS-77 | YSU25R2R | U1B102 | 26484 |
| PSK-00 | CS-78 | YSU25R25R | U1B1010 | 30198 |

*PUC parts not recommended for I/O ACSR.

Non-Tension Splicing Sleeves (PS) & Neutral Splicing Sleeves (PNK)

| Penn-Union | Blackburn | Burndy | Homac | Kearney |
|------------|-----------|-----------|---------|---------|
| PS-00 | KL-36 | — | X1U1010 | 36715 |
| PS-202 | KL-44 | YSD26R2W | X1U204 | 36714 |
| PS-201 | KL-45 | YSD26R2R | X1U202 | 36713 |
| PS-200 | KL-46 | YSD26R25R | X1U2010 | 36712 |
| PS-2020 | KL-47 | YSD26R26R | X1U2020 | 36711 |
| PS-302 | KL-54 | YSD27R2W | X1U304 | 36710 |
| PS-301 | KL-55 | YSD27R2R | X1U302 | 36709 |
| PS-300 | KL-56 | YSD27R25R | X1U3010 | 36708 |
| PS-3020 | KL-57 | YSD27R26R | X1U3020 | 36707 |
| PS-3030 | KL-58 | YSD27R27R | X1U3030 | 36706 |

| Penn-Union | Blackburn | Burndy | Homac | Kearney |
|------------|-----------|-----------|---------|---------|
| PS-402 | KL-64 | YSD28R2W | — | 36705 |
| PS-401 | KL-65 | YSD28R2R | X1U402 | 36704 |
| PS-400 | KL-66 | YSD28R25R | X1U4010 | 36703 |
| PS-4020 | KL-67 | YSD28R26R | X1U4020 | 36702 |
| PS-4030 | KL-68 | YSD28R27R | X1U4030 | 36701 |
| PS-4040 | KL-69 | YSD28R28R | X1U4040 | 36700 |
| PNK-44 | TR-61 | YSS-6RG2 | SNG66 | 30008 |
| PNK-22 | TR-63 | — | SNG44 | 30009 |
| PNK-11 | TR-64 | — | SNG22 | 30010 |
| PNK-00 | TR-65 | — | SNG00 | 30011 |

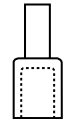
COMPARATIVE LISTING (UL & CSA FOR PENN-UNION) DISTRIBUTION COMPRESSION CONNECTORS

ALUMINUM TERMINAL PLUGS



AL9CU

| Penn-Union | Burndy | IlSCO* | Mac** |
|------------|---------|---------|---------|
| TP-6 | AYP-6 | ACM-6 | MPT-6 |
| TP-4 | AYP-4 | ACM-4 | MPT-4 |
| TP-2 | AYP-2 | ACM-2 | MPT-2 |
| TP-1 | AYP-1 | ACM-1 | MPT-1 |
| TP-1/0 | AYP-1/0 | ACM-1/0 | MPT-1/0 |
| TP-2/0 | AYP-2/0 | ACM-2/0 | MPT-2/0 |
| TP-3/0 | AYP-3/0 | ACM-3/0 | MPT-3/0 |
| TP-4/0 | AYP-4/0 | ACM-4/0 | MPT-4/0 |
| TP-250 | AYP-250 | ACM-250 | MPT-250 |
| TP-300 | AYP-300 | ACM-300 | MPT-300 |
| TP-350 | AYP-350 | ACM-350 | MPT-350 |
| TP-400 | AYP-400 | ACM-400 | MPT-400 |
| TP-500 | AYP-500 | ACM-500 | MPT-500 |
| TP-600 | AYP-600 | ACM-600 | MPT-600 |
| TP-750 | AYP-750 | ACM-750 | MPT-750 |



*Has a knurled stem.

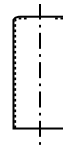
**Has a stranded copper stem. Not recommended for installation with TDY-1.

OFFSET ALUMINUM TERMINAL PLUGS



AL9CU

| Penn-Union | Burndy | IlSCO* |
|------------|----------|---------|
| TPO-2/0 | AYPO-2/0 | ACO-2/0 |
| TPO-3/0 | AYPO-3/0 | ACO-3/0 |
| TPO-4/0 | AYPO-4/0 | ACO-4/0 |
| TPO-250 | AYPO-250 | ACO-250 |
| TPO-300 | AYPO-300 | ACO-300 |
| TPO-350 | AYPO-350 | ACO-350 |
| TPO-400 | AYPO-400 | - |
| TPO-500 | AYPO-500 | ACO-500 |
| TPO-600 | AYPO-600 | ACO-600 |
| TPO-750 | AYPO-750 | ACO-750 |



*Has a knurled stem.

SPLIT BOLT AND SERVICE ENTRANCE CONNECTORS

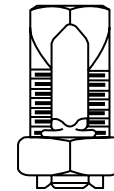
COPPER ALLOY SPLIT BOLTS



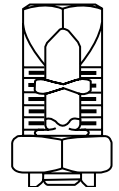
CU

For copper and copperweld wires

| Penn-Union | Anderson | Blackburn | Burndy | Dossert | IlSCO | Reliable |
|------------|----------|-----------|---------|---------|--------------|----------|
| S-8 | C-8 | 8H | KS-15 | DS-1 | IK-8 | 8F |
| SEL-8* | C-8-L | 8H3 | - | - | - | 8F |
| S-6 | C-6 | 6H | KS-17 | DS-2 | IK-6 | 6F |
| SEL-6* | C-6-L | 6H3 | KS-17-3 | DS-2-3 | - | 6F |
| S-4 | C-4 | 4H | KS-20 | DS-3 | IK-4 | 4F |
| SEL-4* | C-4-L | 4H3 | KS-20-3 | DS-3-3 | - | 4F |
| S-3 | C-2 | 2H | KS-22 | DS-5 | IK-3 | 2F |
| SEL-3* | C-2-L | 2H3 | KS-22-3 | DS-5-3 | - | - |
| S-2 | C-1 | 1H | KS-23 | DS-6 | IK-2 | 1F |
| SEL-2* | C-1-L | 1H3 | - | DS-6-3 | - | - |
| S-1/0 | C-1/0 | 10H | KS-25 | DS-10 | IK-1/0 | 1/0F |
| S-2/0 | C-2/0 | 20H | KS-26 | DS-13 | IK-2/0 | 2/0F |
| S-3/0 | C-3/0 | 30H | KS-27 | DS-17 | IK-3/0 | - |
| S-4/0-250 | C-4/0 | 40H | KS-29 | DS-25 | IK-4/0-250** | 4/0F |
| S-350 | C-350 | 350M | KS-31** | DS-35 | IK-350** | 679 |
| S-500 | C-500 | 500M | KS-34** | DS-50 | IK-500** | 813 |
| S-750 | C-750 | 750M | KS-39** | DS-75 | IK-750** | 996 |
| S-1000 | C-1000 | 1000M | KS-44** | DS-100 | IK-1000** | 1152 |



S & SEL



SW & SWA

*Not CSA Certified ** Will take smaller minimum conductor size than PUC part.


TIN PLATED COPPER ALLOY SPLIT BOLTS & ALUMINUM SPLIT BOLTS



For aluminum to aluminum, aluminum to copper and copper to copper.

| Penn-Union | | Anderson | Blackburn | | Burndy | | IlSCO | |
|------------|----------|----------|-----------|----------|--------|----------|---------|----------|
| Copper | Aluminum | Copper | Copper | Aluminum | Copper | Aluminum | Copper | Aluminum |
| SW-1 | - | - | 9 HPS | - | - | - | - | - |
| SW-2 | - | - | 8 HPS | - | - | - | - | - |
| SW-3 | - | CPS-6 | 6 HPS | - | KSU-17 | - | SK-6 | - |
| SW-4 | - | CPS-4 | 4 HPS | - | KSU-20 | - | SK-4 | AK-6* |
| SW-5 | - | CPS-2 | 2 HPS | - | KSU-22 | - | SK-3 | AK-4 |
| SW-6 | - | CPS-1 | 1 HPS | - | KSU-23 | - | SK-2 | AK-2 |
| SW-7 | SWA-7 | CPS-1/0 | 10 HPS | APS-11 | KSU-25 | KSA-1/0 | SK-1/0 | AK-1/0 |
| SW-8 | SWA-8 | CPS-2/0 | 20 HPS | APS-21* | KSU-26 | KSA-2/0 | SK-2/0 | AK-2/0 |
| SW-9A | SWA-9 | CPS-3/0 | - | - | KSU-27 | - | SK-3/0 | - |
| SW-10 | SWA-10 | CPS-4/0 | - | APS-41* | KSU-29 | KSA-4/0* | SK-250 | AK-4/0* |
| SW-11 | SWA-11 | CPS-350 | 350 HPS | APS-350 | KSU-31 | KSA-350* | SK-350* | AK-350* |
| SW-12 | SWA-12 | CPS-500 | 500 HPS | APS-500 | KSU-34 | KSA-500 | SK-500* | AK-500 |
| SW-13 | - | - | 750 HPS | - | - | - | - | - |
| SW-14 | - | - | 1000 HPS | - | - | - | - | - |

*Will take a smaller minimum conductor size than PUC part. UL 486A Listed

 UL 486B Listed AL9CU

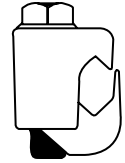
COMPARATIVE LISTING (UL & CSA FOR PENN-UNION) SPLIT BOLT AND SERVICE ENTRANCE CONNECTORS

COPPER SERVICE ENTRANCE CONNECTORS

| Penn-Union | Blackburn | Burndy | Dossert | IlSCO |
|------------|-----------|--------|---------|---------|
| SX-12 | - | - | - | SX-12 |
| SX-10-8 | - | - | ES-1V | SX-10-8 |
| SX-6 | 6N | KP-6C | ES-2 | SX-6 |
| SX-4 | 4N | KP-4C | ES-4 | SX-4 |
| SX-2 | - | - | ES-6 | SX-2 |
| SAX-12-8 | - | - | - | - |
| SAX-6 | 6NPW | - | ESSN-2 | - |
| SAX-4 | 4NPW | - | ESSN-4 | - |
| SAX-2 | 2NPW | - | ESSN-6 | - |



SILICON BRONZE VISE GRIPS



| Penn-Union | Anderson | Fargo |
|------------|----------|------------|
| FF-6 | DG-6 | GC-5006-SH |
| FF-4 | DG-4 | GC-5004 |
| FF-2 | DG-2 | GC-5002-S |
| FF-2/0 | DG-2/0 | GC-5020-S |
| FF-4/0 | DG-4/0 | GC-5040 |
| MGC-167* | - | GC-167P* |

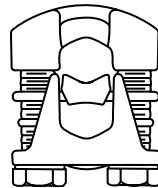
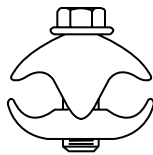
*Insulation Piercing

PARALLEL CONNECTORS

COPPER JUMPER CLAMPS

| Penn-Union | Blackburn | T&B |
|------------|-----------|-----|
| JC-1-AC* | BK-1 | K-1 |
| JC-2-AA | BK-2 | K-2 |
| JC-3-CC | BK-3 | K-3 |

*RUS Accepted



BRONZE PENN-TAPS

| Penn-Union | Anderson | Blackburn | Burndy | Dossert |
|------------|----------|-----------|---------|---------|
| VT-0 • | K-1*† | 2B10 | - | DSU10 |
| VT-1 • | K-2*† | 2B20 | KVS-26† | DSU13 |
| VT-2 • | K-3*† | 2B40* | KVS-28† | DSU21 |
| VT-3 • | K-4*† | 2B350* | KVS-31† | DSU35 |
| VT-4 • | K-5*† | 2B500 | KVS-34† | DSU50 |
| VT-5 • | K-6*† | 2B800* | KVS-40† | DSU80 |
| VT-6 • | K-7*† | 2B1000* | KVS-44† | DSU100 |

•UL Listed

With Spacer

| | | | | |
|---------|--------|-----------|----------|---------|
| VTW-0 • | KR-1*† | 2B10W*† | - | DSUS10 |
| VTW-1 • | KR-2*† | 2B20W*† | KVSW-26† | DSUS13 |
| VTW-2 • | KR-3*† | 2B40W*† | KVSW-28† | DSUS21 |
| VTW-3 • | KR-4*† | 2B350W*† | KVSW-31† | DSUS35 |
| VTW-4 • | KR-5*† | 2B500W*† | KVSW-34† | DSUS50 |
| VTW-5 • | KR-6*† | 2B800W*† | KVSW-40† | DSUS80 |
| VTW-6 • | KR-7*† | 2B1000W*† | KVSW-44† | DSUS100 |

•UL Listed

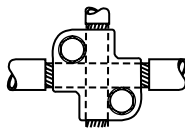
Tin-Plated with Spacer

| | | | | |
|---------|----------|------------|---------|---------|
| VTA-0** | KR-1TP*† | 2B10PW*† | - | DSUN10 |
| VTA-1 | KR-2TP*† | 2B20PW*† | KVSU26† | DSUN13 |
| VTA-2 | KR-3TP*† | 2B40PW*† | KVSU28† | DSUN21 |
| VTA-3 | KR-4TP*† | 2B350PW*† | KVSU31† | DSUN35 |
| VTA-4 | KR-5TP*† | 2B500PW*† | KVSU34† | DSUN50 |
| VTA-5 | KR-6TP*† | 2B800PW*† | KVSU40† | DSUN80 |
| VTA-6 | KR-7TP*† | 2B1000PW*† | KVSU44† | DSUN100 |

*Includes wire range of PUC connector.

†Includes one bolt longer than the other.

**UL 486B Listed AL9CU



BRONZE VARIABLE GUTTER TAP

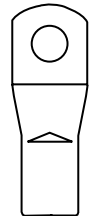
| Penn-Union | Anderson | Blackburn | Burndy | Dossert |
|------------|-------------------------|------------------|-----------------------|----------------------------|
| VX-1 | XP-018018 | XT-11* | QPX-2C2C | GTX-6-6 |
| VX-3 | XP-024018 and XP-024024 | XT-12 and XT-13* | QPX-282C and QPX-2828 | GTX-216 and GTX-21-21 |
| VX-4 | XP-050018* | XT-21* | QPX-342C | GTX-50-6 |
| VX-5S | XP-050024* | - | - | GTX-50-21 |
| VX-6 | XP-050050* | XT-22 | QPX-3434 | - |
| VX-7 | XP-100018 | - | QPX-442C | GTX-100-6 |
| VX-8 | XP-100024 | - | QPX-4428 | GTX-100-21 |
| VX-8S | - | - | - | - |
| VX-10 | XP-100050 and XP-100100 | XT-33 and XT-34 | QPX-4434 and QPX-4444 | GTX-100-50 and GTX-100-100 |

*Difference in minimum wire size

COMPRESSION LUGS & SPLICES



COPPER PENN-CRIMPS® Single Crimp Lugs for AN-8 thru AN-4/0



| Penn-Union | Burndy |
|------------|-----------|
| BLY8C-L | YAV8C-L |
| BLY8C-L1 | YAV8C-L1 |
| BLY8C-L2 | YAV8C-L2 |
| BLY8C-L3 | YAV8C-L3 |
| BLY8C-L4 | YAV8C-L4 |
| BLY6C-L1 | YAV6C-L1 |
| BLY6C-L | YAV6C-L |
| BLY6C-L4 | YAV6C-L4 |
| BLY6C-L2 | YAV6C-L2 |
| BLY6C-L10 | YAV6C-L10 |
| BLY4C-L3 | YAV4C-L3 |
| BLY4C-L | YAV4C-L |
| BLY4C-L4 | YAV4C-L4 |
| BLY4C-L2 | YAV4C-L2 |
| BLY4C-L5 | YAV4C-L5 |
| BLY2C-L1 • | YAV2C-L1 |
| BLY2C-L2 • | YAV2C-L2 |
| BLY2C-L • | YAV2C-L |
| BLY2C-L4 • | YAV2C-L4 |
| BLY1C-L1 | YAV1C-L1 |
| BLY1C-L2 | YAV1C-L2 |
| BLY1C-L | YAV1C-L |
| BLY1C-L3 | YAV1C-L3 |
| BLY25-L1 | YAV25-L1 |
| BLY25-L2 | YAV25-L2 |
| BLY25-L | YAV25-L |
| BLY25-L3 | YAV25-L3 |
| BLY26-L1 | YA26-L1 |
| BLY26-L2 | YA26-L2 |
| BLY26-L | YA26-L |
| BLY26-L3 | YA26-L3 |
| BLY27-L1 | YAV27-L1 |
| BLY28-L | YAV28-L |
| BLY28-L12 | YAV28-L12 |
| BLY28-L13 | YAV28-L13 |
| BLY28-L14 | YAV28-L14 |

•UL Listed

COMPARATIVE LISTING (UL & CSA FOR PENN-UNION)



COMPRESSION LUGS & SPLICES

COPPER PENN-CRIMPS® Standard Barrel Lugs



| Penn-Union | Blackburn | Burndy | Dossert | IlSCO | T & B |
|------------|-----------|----------|-------------|----------|-------|
| BLU8S14 | CTL8-10 | - | - | CRA-8 | 54104 |
| BLU-8D | - | - | - | - | 54204 |
| BLU-8S15 | CTL8-14 | - | - | - | 54130 |
| BLU-8S16 | CTL8-516 | - | - | - | 54131 |
| BLU-8S17 | - | - | - | - | 54132 |
| BLU-8S18 | - | - | - | - | - |
| BLU-6S | CTL6-10 | YA6C-L1 | DPLS2-1-18 | CRA-6 | 54134 |
| BLU-6S1 | CTL6-14 | YA6C-L | DPLS2-1 | CRB-6 | 54105 |
| BLU-6D | - | YA6C-2L | DPLS2-2 | - | 54205 |
| BLU-6S2 | CTL6-516 | YA6C-L3 | DPLS2-1-31 | - | 54135 |
| BLU-6S8 | - | YA6C-L4 | - | - | 54136 |
| BLU-4S | CTL4-10 | YA4C-L1 | DPLS4-1-18 | CRA-4 | 54138 |
| BLU-4S1 | CTL4-14 | YA4C-L | DPLS4-1 | CRB-4 | 54106 |
| BLU-4D | - | YA4C-2L | DPLS4-2 | - | 54206 |
| BLU-4S10 | CTL4-516 | YA4C-L3 | - | - | 54139 |
| BLU-4S2 | CTL4-38 | YA4C-L4 | DPLS4-1-38 | - | 54140 |
| BLU-2S | CTL2-14 | YA2C-L2 | DPLS6-1-25 | CRA-2 | 54107 |
| BLU-2D | - | YA2C-2L | - | - | 54207 |
| BLU-2S1 | CTL2-516 | YA2C-L | DPLS6-1 | CRB-2 | 54142 |
| BLU-2S2 | CTL2-38 | YA2C-L4 | DPLS6-1-38 | - | 54143 |
| BLU-2S10 | - | YA2C-L6 | - | - | 54145 |
| BLU-1S9 | CTL1-14 | - | - | - | 54108 |
| BLU-1D2 | - | - | - | - | 54208 |
| BLU-1S | CTL1-516 | YA1C-L | DPLS8-1 | CRA-1 | 54147 |
| BLU-1D4 | - | YA1C-2L | DPLS8-2 | - | - |
| BLU-1S1 | CTL1-38 | YA1C-L4 | - | - | 54148 |
| BLU-1S4 | - | YA1C-L6 | - | - | 54150 |
| BLU-1/0S19 | - | - | - | - | 54152 |
| BLU-1/0S | CTL10-516 | YA25-L | DPLS10-1 | CRA-0 | 54153 |
| BLU-1/0D | - | YA25-2L | DPLS10-2 | - | 54255 |
| BLU-1/0S1 | CTL10-38 | YA25-L4 | DPLS10-1-38 | CRB-0 | 54109 |
| BLU-1/0D4 | - | - | - | - | 54209 |
| BLU-1/0S20 | - | YA25-L6 | - | - | 54155 |
| BLU-2/0S20 | - | - | - | - | 54157 |
| BLU-2/0S21 | - | - | - | - | 54158 |
| BLU-2/0D3 | - | - | DPLS13-2 | - | - |
| BLU-2/0S | CTL20-38 | YA26-L | DPLS13-1 | CRA-2/0 | 54110 |
| BLU-2/0D4 | - | - | - | - | 54210 |
| BLU-2/0S4 | CTL20-12 | YA26-L6 | - | - | 54160 |
| BLU-2/0D | - | YA26-2LN | DPLS13-2N | - | 54260 |
| BLU-3/0S14 | - | - | - | - | 54162 |
| BLU-3/0S15 | - | - | - | - | 54163 |
| BLU-3/0S | CTL30-38 | YA27-L4 | DPLS17-1-38 | CRA-3/0 | 54111 |
| BLU-3/0D3 | - | - | DPLS17-2 | - | 54211 |
| BLU-3/0S1 | CTL30-12 | YA27-L | DPLS17-1 | CRB-3/0 | 54165 |
| BLU-3/0D | - | YA27-2LN | DPLS17-2N | - | 54265 |
| BLU-4/0S19 | - | - | - | - | 54167 |
| BLU-4/0S25 | - | - | - | - | 54168 |
| BLU-4/0S | CTL40-38 | YA28-L4 | DPLS21-1-38 | CRA-4/0 | 54112 |
| BLU-4/0D10 | - | - | DPLS21-2 | - | 54212 |
| BLU-4/0S1 | CTL40-12 | YA28-L | DPLS21-1 | CRB-4/0 | 54170 |
| BLU-4/0D | CTL402 | YA28-2LN | DPLS21-2N | - | 54270 |
| BLU-025S4 | - | - | - | - | 54172 |
| BLU-025SS | - | - | - | - | 54173 |
| BLU-025S2 | - | - | - | - | 54174 |
| BLU-025D3 | - | - | DPLS25-2 | - | 54213 |
| BLU-025S | CTL250-12 | YA29-L | DPLS25-1 | CRA-250 | 54113 |
| BLU-025D | CTL2502 | YA29-2LN | DPLS25-2N | - | 54275 |
| BLU-030S6 | - | - | - | - | 54178 |
| BLU-030S7 | - | - | - | - | 54179 |
| BLU-030D9 | - | - | DPLS30-2 | - | 54214 |
| BLU-030S | CTL300-12 | YA30-L | DPLS30-1 | CRA-300 | 54114 |
| BLU-030D | CTL3002 | YA30-2LN | DPLS30-2N | - | 54280 |
| BLU-030S8 | - | - | - | - | 54181 |
| BLU-035D13 | - | - | DPLS35-2 | - | 54215 |
| BLU-035S | CTL350-12 | YA31-L | DPLS35-1 | CRA-350 | 54115 |
| BLU-035D | CTL3502 | YA31-2LN | DPLS35-2N | - | 54282 |
| BLU-035S3 | - | - | - | - | 54183 |
| BLU-040D7 | - | - | DPLS40-2 | - | 54216 |
| BLU-040S4 | CTL400-12 | - | - | - | 54116 |
| BLU-040D | CTL4002 | YA32-2LN | DPLS40-2N | - | 54289 |
| BLU-040S | - | YA32-L | DPLS40-1 | CRA-400 | 54185 |
| BLU-050D13 | - | - | DPLS50-2 | - | 54218 |
| BLU-050S2 | CTL500-12 | - | - | - | 54118 |
| BLU-050D | CTL5002 | YA34-2LN | DPLS50-2N | - | 54286 |
| BLU-050S | - | YA34-L | DPLS50-1 | CRA-500 | 54187 |
| BLU-060D | - | YA36-2LN | DPLS60-2N | - | 54289 |
| BLU-060S | - | YA36-L | DPLS60-1 | - | 54120 |
| BLU-075D | CTL7502 | YA39-2LN | DPLS75-2N | - | 54223 |
| BLU-075S | - | YA39-L | DPLS75-1 | CRA-750 | 54123 |
| BLU-080D | - | YA40-2LN | DPLS80-2N | - | 54224 |
| BLU-080S | - | YA40-L | DPLS80-1 | - | 54124 |
| BLU-100D | CTL10002 | YA44-2LN | DPLS100-2N | - | 54228 |
| BLU-100S | - | YA44-L | DPLS100-1 | CRA-1000 | 54128 |
| BLU-100S4 | - | - | - | - | 54129 |
| BLU-150D | - | - | DPLS150-2N | - | - |
| BLU-150S | - | - | DPLS150-1 | - | - |
| BLU-200D | - | - | DPLS200-2N | - | - |
| BLU-200D | - | - | DPLS200-1 | - | - |

*UL Listed
"S" in suffix = single hole pad
"D" in suffix = double hole pad

BLUA, BLU and BBLU lugs are suitable for use @ voltages up to 35KV, provided connector is taped in accordance with accepted practices. 5KV is maximum voltage level in all bare splice applications.

COPPER PENN-CRIMPS® Long Barrel Lugs – One Hole



| Penn-Union | Blackburn | Burndy | Dossert | IlSCO | T & B |
|------------|-----------|--------|----------|-----------|-------|
| BBLU-6S | - | YA6C | DPL2-1 | CRB-6L | 54905 |
| BBLU-4S | - | YA4C | DPL4-1 | CRB-4L | 54906 |
| BBLU-2S | - | YA2C | DPL6-1 | CRB-2L | 54942 |
| BBLU-1S | - | YA1C | DPL8-1 | CRA-1L | 54947 |
| BBLU-1/0S | - | YA25 | DPL10-1 | CRA-1/0L | - |
| BBLU-2/0S | - | YA26 | DPL13-1 | CRA-2/0L | 54910 |
| BBLU-3/0S | - | YA27 | DPL17-1 | CRB-3/0L | 54965 |
| BBLU-4/0S | - | YA28 | DPL21-1 | CRB-4/0L | 54970 |
| BBLU-025S | - | YA29 | DPL25-1 | CRA-250L | 54913 |
| BBLU-030S | - | YA30 | DPL30-1 | CRA-300L | 54914 |
| BBLU-035S | - | YA31 | DPL35-1 | CRA-350L | 54915 |
| BBLU-040S | - | YA32 | DPL40-1 | CRA-400L | - |
| BBLU-050S | - | YA34 | DPL50-1 | CRA-500L | - |
| BBLU-060S | - | YA36 | DPL60-1 | CRA-600L | 54920 |
| BBLU-075S | - | YA39 | DPL75-1 | CRA-750L | 54923 |
| BBLU-080S | - | YA40 | DPL80-1 | - | - |
| BBLU-100S | - | YA44 | DPL100-1 | CRA-1000L | 54928 |
| BBLU-150S | - | YA46 | DPL150-1 | - | - |
| BBLU-200S | - | - | DPL200-1 | - | - |

Long Barrel Lugs – Two Hole

| | | | | | |
|-------------|---------|---------|-----------|------------|-------|
| BBLU-6D | - | YA6C-2 | DPL2-2 | CRB-6L2 | 54852 |
| BBLU-4D | - | YA4C-2 | DPL4-2 | CRB-4L2 | 54854 |
| BBLU-2D | - | YA2C-2 | DPL6-2 | CRB-2L2 | 54856 |
| BBLU-1D | - | YA1C-2 | DPL8-2 | CRA-1L2 | 54858 |
| BBLU-1/0D | LCN10 | YA25-2 | DPL10-2 | CRA-1/0L2 | 54860 |
| BBLU-2/0D | LCN20 | YA26-2N | DPL13-2N | CRA-2/0L2 | 54862 |
| BBLU-3/0D | LCN30 | YA27-2N | DPL17-2N | CRB-3/0L2 | 54864 |
| BBLU-4/0D | LCN40 | YA28-2N | DPL21-2N | CRB-4/0L2 | 54866 |
| BBLU-025D | LCN250 | YA29-2N | DPL25-2N | CRA-250L2 | 54868 |
| BBLU-030D | - | YA30-2N | DPL30-2N | CRA-300L2 | 54870 |
| BBLU-035D | LCN350 | YA31-2N | DPL35-2N | CRA-350L2 | 54872 |
| BBLU-040D | - | YA32-2N | DPL40-2N | CRA-400L2 | 54874 |
| BBLU-050D | LCN500 | YA34-2N | DPL50-2N | CRA-500L2 | 54876 |
| BBLU-060D | - | YA36-2N | DPL60-2N | CRA-600L2 | 54878 |
| BBLU-075D | LCN750 | YA39-2N | DPL75-2N | CRA-750L2 | 54880 |
| BBLU-080D | - | YA40-2N | DPL80-2N | - | - |
| BBLU-100D | LCN1000 | - | DPL100-2 | CRA-1000L2 | - |
| BBLU-100D1* | - | YA44-2N | DPL100-2N | - | - |
| BBLU-150D | - | - | DPL150-2 | - | - |
| BBLU-150D1* | - | YA46-2N | DPL150-2N | - | - |
| BBLU-200D | - | - | DPL200-2 | - | - |
| BBLU-200D1* | - | - | DPL200-2N | - | - |



Splices

| Penn-Union | Blackburn | Burndy | Dossert | IlSCO | T & B |
|------------|-----------|--------|----------|---------|-------|
| BCU-8 | CSP8 | YS8C-L | - | CT-8 | 54504 |
| BCU-6 | CSP6 | YS6C-L | DPCS-2 | CT-6 | 54505 |
| BCU-5 | - | YS5C-L | - | - | - |
| BCU-4 | CSP4 | YS4C-L | DPCS-4 | CT-4 | 54506 |
| BCU-3 | CSP3 | YS3C-L | - | - | - |
| BCU-2 | CSP2 | YS2C-L | DPCS-6 | CT-2 | 54507 |
| BCU-1 | CSP1 | YS1C-L | DPCS-8 | CT-1 | 54508 |
| BCU-1/0 | CSP10 | YS25-L | DPCS-10 | CT-1/0 | 54509 |
| BCU-2/0 | CPS20 | YS26-L | DPCS-13 | CT-2/0 | 54510 |
| BCU-3/0 | CSP30 | YS27-L | DPCS-17 | CT-3/0 | 54511 |
| BCU-4/0 | CSP40 | YS28-L | DPCS-21 | CT-4/0 | 54512 |
| BCU-025 | CSP250 | YS29-L | DPCS-25 | CT-250 | 54513 |
| BCU-030 | CSP300 | YS30-L | DPCS-30 | CT-300 | 54514 |
| BCU-035 | CSP350 | YS31-L | DPCS-35 | CT-350 | 54515 |
| BCU-040 | CSP400 | YS32-L | DPCS-40 | CT-400 | 54516 |
| BCU-050 | CSP500 | YS34-L | DPCS-50 | CT-500 | 54518 |
| BCU-060 | CSP600 | YS36-L | DPCS-60 | - | 54520 |
| BCU-065 | - | - | - | - | - |
| BLU-075 | CSP750 | YS39-L | DPCS-75 | CT-750 | 54523 |
| BCU-080 | - | - | DPCS-80 | - | 54524 |
| BCU-100 | CSP1000 | YS44-L | DPCS-100 | CT-1000 | 54528 |
| BCU-150 | - | - | DPCS-150 | - | - |
| BCU-200 | - | - | DPCS-200 | - | - |

Long Barrel Splices

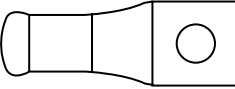
| | | | | | |
|----------|---------|------|---------|----------|-------|
| BBCU-6 | C46 | YS6C | DPC-2 | CTL-6 | 54805 |
| BBCU-4 | C44 | YS4C | DPC-4 | CTL-4 | 54806 |
| BBCU-2 | C42 | YS2C | DPC-6 | CTL-2 | 54807 |
| BBCU-1 | C41 | YS1C | DPC-8 | CTL-1 | 54808 |
| BBCU-1/0 | CU-10 | YS25 | DPC-10 | CTL-1/0 | 54809 |
| BBCU-2/0 | CU-20 | YS26 | DPC-13 | CTL-2/0 | 54810 |
| BBCU-3/0 | CU-30 | YS27 | DPC-17 | CTL-3/0 | 54811 |
| BBCU-4/0 | CU-40 | YS28 | DPC-21 | CTL-4/0 | 54812 |
| BBCU-025 | CU-250 | YS29 | DPC-25 | CTL-250 | 54813 |
| BBCU-030 | CU-300 | YS30 | DPC-30 | CTL-300 | 54814 |
| BBCU-035 | CU-350 | YS31 | DPC-35 | CTL-350 | 54815 |
| BBCU-040 | CU-400 | YS32 | DPC-40 | CTL-400 | 54816 |
| BBCU-050 | CU-500 | YS34 | DPC-50 | CTL-500 | 54818 |
| BBCU-060 | CU-600 | YS36 | DPC-60 | CTL-600 | 54820 |
| BBCU-075 | CU-750 | YS39 | DPC-75 | CTL-750 | 54823 |
| BBCU-080 | - | - | DPC-80 | - | - |
| BBCU-100 | CU-1000 | YS44 | DPC-100 | CTL-1000 | 54828 |
| BBCU-150 | - | YS46 | DPC-150 | - | - |
| BBCU-200 | - | YS48 | DPC-200 | - | - |

*UL Listed

COMPARATIVE LISTING (UL & CSA FOR PENN-UNION)

COMPRESSION LUGS & SPLICES

ALUMINUM PENN-CRIMPS® Lugs – One & Two Hole



| Penn-Union | Blackburn | Burndy | Dossert | IlSCO | T & B |
|------------|------------|--------|---------------|--------------|-------|
| BLUA-8S | ATL8-14 | YA8CA3 | DPL-1-1-AA | ACL-8 | 60102 |
| BLUA-6S | ATL6-14 | YA6CA1 | DPL-2-1-AA | ACL-6 | 60107 |
| BLUA-6S2 | — | — | — | — | 60108 |
| BLUA-4S3 | ATL4-14 | YA4CA1 | — | ACL-4 | 60112 |
| BLUA-4S2 | ATL4-516 | YA4CA3 | DPL-4-1-AA | — | 60113 |
| BLUA-2S3 | ATL2-14 | — | — | ACL-2 | 60116 |
| BLUA-2S4 | ATL2-516 | YA2CA1 | — | — | 60117 |
| BLUA-2S | ATL2-38 | YA2CA3 | DPL-6-1-AA | — | 60118 |
| BLUA-1S1 | — | — | — | ACL-1 | 60112 |
| BLUA-1S3 | ATL1-516 | — | — | ACN-1 | 60123 |
| BLUA-1S | ATL1-38 | YA1CA1 | DPL-8-1-AA | — | 60124 |
| BLUA-1S2 | — | — | — | — | 60126 |
| BLUA-1/0S2 | — | — | — | — | 60128 |
| BLUA-1/0S3 | ATL10-516 | YA25A1 | — | ACN-1/0 | 60129 |
| BLUA-1/0S | ATL10-38 | YA25A3 | DPL-10-1-AA | ACL-1/0 | 60130 |
| BLUA-1/0D1 | ATL102-38* | — | — | 2ACL-1/0 | 60230 |
| BLUA-1/0D2 | — | YA25A5 | DPL-10-2-AA | — | — |
| BLUA-1/0S1 | ATL1012 | YA25A9 | — | ACL-1/0-9/16 | 60132 |
| BLUA-1/0D3 | ATL-102 | YA25A7 | — | — | — |
| BLUA-2/0S4 | — | — | — | — | 60134 |
| BLUA-2/0S5 | — | — | — | — | 60135 |
| BLUA-2/0S6 | ATL20-38 | YA26A6 | — | ACL-2/0 | 60136 |
| BLUA-2/0D2 | — | YA26A5 | — | — | 60236 |
| BLUA-2/0S | ATL20-12 | YA26A1 | DPL-13-1-AA | ACN-2/0 | 60138 |
| BLUA-2/0D | ATL202* | YA26A3 | DPL-13-2N-AA | 2ACL-2/0 | 60238 |
| BLUA-3/0S5 | — | — | — | — | 60141 |
| BLUA-3/0S2 | ATL30-38 | YA27A1 | — | ACL-3/0 | 60142 |
| BLUA-3/0D1 | — | YA27A7 | — | — | 60242 |
| BLUA-3/0S | ATL30-12 | YA27A3 | DPL-17-1-AA | ACN-3/0 | 60144 |
| BLUA-3/0D | ATL302* | YA27A5 | DPL-17-2N-AA | 2ACL-3/0 | 60244 |
| BLUA-4/0S3 | — | — | — | — | 60147 |
| BLUA-4/0S2 | ATL40-38 | YA28A1 | — | ACL-4/0 | 60148 |
| BLUA-4/0D2 | — | YA28A7 | — | — | 60248 |
| BLUA-4/0S | ATL40-12 | YA28A3 | DPL-21-1-AA | — | 60150 |
| BLUA-4/0D | ATL402* | YA28A5 | DPL-21-2N-AA | 2ACL-4/0 | 60250 |
| BLUA-4/0S4 | ATL-4012 | YA28A3 | DPL-211-AA | ACN-4/0 | 60151 |
| BLUA-025S2 | — | — | — | — | 60154 |
| BLUA-025D1 | — | YA29A5 | — | — | 60254 |
| BLUA-025S | ATL250-12 | YA29A1 | DPL-25-1-AA | ACL-250 | 60156 |
| BLUA-025D | ATL2502* | YA29A3 | DPL-25-2N-AA | 2ACL-250 | 60256 |
| BLUA-025S3 | — | — | — | — | 60157 |
| BLUA-030S2 | — | YA30A6 | — | — | 60160 |
| BLUA-030D1 | — | YA30A5 | — | — | 60260 |
| BLUA-030S1 | ATL30012 | YA30A1 | — | ACL-300 | 60162 |
| BLUA-030D | ATL3002 | YA30A3 | DPL-30-2N-AA | 2ACL-300 | 60262 |
| BLUA-030S | — | — | DPL-30-1-AA | — | 60163 |
| BLUA-035D1 | — | YA31A5 | — | — | 60265 |
| BLUA-035S1 | ATL350-12 | YA31A1 | — | ACL-350 | 60165 |
| BLUA-035D | ATL3502* | YA31A3 | DPL-35-2N-AA | 2ACL-350 | 60267 |
| BLUA-035S | — | — | — | — | 60166 |
| BLUA-040D1 | — | YA32A5 | — | — | 60268 |
| BLUA-040S2 | — | — | — | ACL-400 | 60168 |
| BLUA-040D2 | ATL 4002 | YA32A3 | DPL-40-2N-AA | 2ACL-400 | 60269 |
| BLUA-040S3 | ATL40058 | YA32A1 | — | — | 60169 |
| BLUA-050D1 | — | YA34A5 | — | — | 60271 |
| BLUA-050S2 | ATL-500-12 | — | — | ACL-500 | 60171 |
| BLUA-050D2 | ATL5002* | YA34A3 | DPL-50-2N-AA | 2ACL-500 | 60273 |
| BLUA-050S3 | ATL50058 | YA34A1 | — | — | 60172 |
| BLUA-060D1 | — | YA36A5 | — | — | 60274 |
| BLUA-060D2 | ATL6002 | YA36A3 | DPL-60-2N-AA | 2ACL-600 | 60275 |
| BLUA-060S1 | — | — | — | ACL-600 | 60174 |
| BLUA-075S1 | ATL-750-58 | YA39A3 | — | ACL-750 | 60178 |
| BLUA-075D1 | ATL-7502* | YA39A5 | DPL-75-2N-AA | 2ACL-750 | 60278 |
| BLUA-080D1 | — | YA40A3 | DPL-80-2N-AA | — | 60280 |
| BLUA-080S1 | — | YA40A1 | — | — | 60180 |
| BLUA-100D2 | ATL10002 | YA44A3 | DPL-100-2N-AA | 2ACL-1000 | 60284 |
| BLUA-100S1 | ATL1000-58 | YA44A1 | — | ACL-1000 | 60184 |

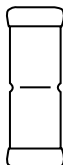
* UL 486B Listed • Hole spacing different. "S" in suffix = single hole lug "D" in suffix = double hole lug



AL9 CU

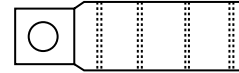
Splices

| Penn-Union | Blackburn | Burndy | Dossert | IlSCO | T & B |
|------------|-----------|--------|------------|---------|-------|
| BCUA-6 | ASP6 | YS6CA1 | DPC-2 AA | AS-6 | 60507 |
| BCUA-4 | ASP4 | YS4CA1 | DPC-4 AA | AS-4 | 60512 |
| BCUA-2 | ASP2 | YS2CA1 | DPC-6 AA | AS-2 | 60516 |
| BCUA-1 | ASP1 | YS1CA1 | DPC-8 AA | AS-1 | 60522 |
| BCUA-1/0 | ASP10 | YS25A1 | DPC-10-AA | AS-1/0 | 60530 |
| BCUA-2/0 | ASP20 | YS26A1 | DPC-13-AA | AS-2/0 | 60536 |
| BCUA-3/0 | ASP30 | YS27A1 | DPC-17-AA | AS-3/0 | 60542 |
| BCUA-4/0 | ASP40 | YS28A1 | DPC-21-AA | AS-4/0 | 60548 |
| BCUA-025 | ASP250 | YS29A1 | DPC-25-AA | AS-250 | 60554 |
| BCUA-030 | ASP300 | YS30A1 | DPC-30-AA | AS-300 | 60560 |
| BCUA-035 | ASP350 | YS31A1 | DPC-35-AA | AS-350 | 60565 |
| BCUA-040 | ASP400 | YS32A1 | DPC-40-AA | AS-400 | 60568 |
| BCUA-050 | ASP500 | YS34A1 | DPC-50-AA | AS-500 | 60571 |
| BCUA-060 | ASP600 | YS36A1 | DPC-60-AA | AS-600 | 60574 |
| BCUA-075 | ASP750 | YS39A1 | DPC-75-AA | AS-750 | 60578 |
| BCUA-080 | — | YS40A1 | DPC-80-AA | — | 60580 |
| BCUA-100 | ASP1000 | YS44A1 | DPC-100-AA | AS-1000 | 60584 |



* UL 486B Listed

ALUMINUM COMPRESSION TERMINALS



For alum., copper or ACSR wire.

ONE HOLE PAD

| Penn-Union | Burndy | Homac | Kearney |
|------------|-----------|------------------------|-----------------------|
| FKLA-W8-S | — | SA-10-48 | — |
| FKLA-W6-S | YRA8CU* | SA-8-48* | — |
| FKLA-W4-S | YRA6CU | SA-6-48 | — |
| FKLA-W2-S | YRA4CU | SA-4-48 | — |
| FKLA-C2-S | — | SA-3-48 | — |
| FKLA-R2-S | YRA1CU | SA-2-48 | — |
| FKLA-010-S | YRA25A | SA-1/0-48 | — |
| FSLA-W2-S | YRAL4CU | — | 104761-1* |
| FSLA-C2-S | YRAL1CU | — | — |
| FSLA-010-S | YRA25U | — | 104761-3* |
| FSLA-013-S | YRA26U | SA-2/0-48 | 104761-4 |
| FSLA-017-S | YRA27U | SA-3/0-48 | 104761-5 |
| FSLA-025-S | YRA28U | SA-4/0-48 and SA250-48 | 104761-6 and 104761-7 |
| FSLA-030-S | — | — | 104761-8 |
| FULA-030-S | — | SA300-48 | — |
| FULA-035-S | YCAK31AG1 | SA350-48 | — |
| FULA-045-S | — | SA400-48 | — |
| FULA-050-S | — | CFA500-48 | — |

TWO HOLE PAD

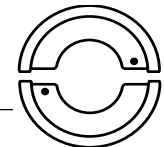
| Penn-Union | Burndy | Homac | Kearney |
|-------------|-------------|----------|---------|
| FULA-025-D | YCAK29A-2G1 | SAB4/0-N | — |
| FULA-030-D | — | SAB300-N | — |
| FULA-035-D | YCAK31A-2G1 | SA35048 | — |
| FULA-R033-D | — | SAB350-N | — |
| FULA-045-D | — | SAB400-N | — |
| FULA-050-D | YCAK34A-2G3 | SAB500-N | — |

*Difference in minimum wire size.

COMPRESSION TOOLS

| Penn-Union | Blackburn | Burndy | IlSCO | T & B |
|------------|-----------|---------|---------|---------|
| TPU-12B | JB 12A | Y35 | ILC-12 | TBM-12M |
| TDM-250 | NRG 2508 | MY29-3 | MT-25 | — |
| TDM-250XF | — | MY29-11 | — | — |
| TDM-500 | — | — | — | — |
| TPU-12BH | JB12HA | Y35BH | ILC-12H | — |
| TPU-15BH | — | Y46 | — | TBM15PF |

Die Sets



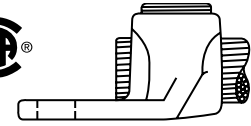
| Penn-Union Die Set Cat. No. | Burndy Index | Burndy Die Set Cat. No. | T & B Index | Color Code | Range |
|-----------------------------|--------------|-------------------------|-------------|------------|------------------------|
| T-10 | 10 | U2CRT | 33 | Brown | #2 CU |
| T-11/375 | 11 375 | U1CRT U4CABT | 37 | Green | #1 CU #4 AL |
| T-12/348 | 12 348 | U25RT U2CABT | 42 | Pink | 1/0 CU #2 AL |
| T-13 | 13 | U26RT | 45 | Black | 2/0 CU |
| T-14 | 14 | U27RT | 50 | Orange | 3/0 CU |
| T-15 | 15 | U28RT | 54 | Purple | 4/0 CU |
| T-16 | 16 | U29RT | 62 | Yellow | 250MCM CU |
| T-298 | 298 | U28ART | 66H | White | 4/0 AL |
| T-18/324 | 18 324 | U31RT U29ART | 71H | Red | 350MCM CU 250MCM AL |
| T-20/299 | 20 299 | U34RT U31ART | 87H | Brown | 500MCM CU 350MCM AL |
| T-22/472 | 22 472 | U36RT U32ART | 94 H | Green | 600MCM CU 400MCM AL |
| T-296 | 296 | U25ART | 50 | Tan | 1/0 AL |
| T-297 | 297 | U26ART | 54 | Olive | 2/0 AL |
| T-300 | 300 | U34ART | 99H | Pink | 500MCM AL |
| T-467 | 467 | U27ART | 60 | Ruby | 3/0 AL |
| T-473 | 473 | U36ART | 106H | Black | 750MCM CU 600MCM AL |

COMPARATIVE LISTING (UL & CSA FOR PENN-UNION)

COMPRESSION DIES

DIE SETS/UTILITY)

| PUC Die Set | Burndy Index | Burndy Die Set | T&B Index | Color Code | Range |
|-------------|--------------|----------------|-----------|------------|-------|
| T-BG | BG | U-BG | 52 | - | - |
| T-O | O | U-O | O | - | - |
| T-D3 | D3 | U-D3 | D | - | - |
| T-N | N | U-N | N | - | - |
| T-249 | 249 | U-249 | 76 | - | - |
| T-316 | 316 | U-316 | 96 | - | - |
| T-317 | 317 | U-317 | 106A | - | - |



BRONZE PENN-LUGS

One Hole – One Conductor

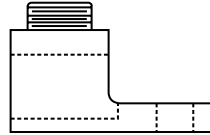
| Penn-Union | Anderson | Blackburn | Burndy | Dossert | T & B |
|------------|----------|-----------|--------|-----------|-------|
| PNL-8 * | LU-08 | L-35 | KA-8C | D-35 | 71003 |
| PNL-4 * | LU-04 | L-70 | KA-4C | D-70 | 71005 |
| PNL-1/0 * | LU-1/0 | L-125 | KA-25 | D-10 | - |
| PNL-250 * | LU-4/0 | L-250 | KA-28 | D-21/D-25 | 71015 |
| PNL-500 * | LU-500 | L-400 | KA-34 | D-50 | 71020 |
| PNL-1000 * | LU-1000 | L-650 | - | D-100 | - |

TERMINAL LUGS

ALUMINUM SOLDERLESS LUGS



AL9 CU



One Hole – One Conductor

| Penn-Union | Blackburn | Burndy | IlSCO |
|------------|-----------|--------|----------|
| LA-6 | ADR6 | - | TA-6S |
| LA-2 | ADR2 | KA-2U | TA-2 |
| LA-0 | ADR11 | KA-25U | TA-0 |
| LA-2/0 | ADR21 | KA-26U | TA-2/0 |
| LA-250 | ADR25 | KA-29U | TA-250 |
| LA-350 | ADR35 | KA-31U | TA-350 |
| LA-500 | ADR50 | KA-34U | TA-500 |
| LA-600 | ADR60 | KA-36U | TA-600* |
| LA-800 | ADR80 | KA-40U | TA-800* |
| LA-1000 | ADR99 | KA-44U | TA-1000* |

*Difference in min. wire size.

One Hole – Two Conductors

| | | | |
|---------|----------|----------|--------|
| L2A-0 | ADR11-21 | K2A-26U* | AU-0 |
| L2A-250 | ADR25-21 | K2A-29U | AU-250 |
| L2A-350 | ADR35-21 | K2A-31U | AU-350 |
| L2A-500 | - | - | - |
| L2A-600 | ADR60-21 | K2A-36U | AU-600 |

*Difference in max. wire size.

Two Hole – Two Conductors

| | | | |
|----------|----------|---------|---------|
| L2A-800 | ADR80-21 | - | AU-800 |
| L2A-1000 | ADR99-21 | K2A-44U | AU-1000 |

Two Hole – One Conductor

| | | | |
|-----------|---|-----------|------------|
| LA-350-2 | - | - | TA-350-2N |
| LA-600-2 | - | KA-36U-2N | TA-600-2N |
| LA-800-2 | - | KA-40U-2N | TA-800-2N* |
| LA-1000-2 | - | KA-44U-2N | TA-1000-2N |

*Difference in min. wire size.

Two Hole – Two Conductors

| | | | |
|------------|---|------------|------------|
| L2A-350-2 | - | - | AU-350-2N |
| L2A-600-2 | - | K2A-36U-2N | AU-600-2N |
| L2A-800-2 | - | K2A-40U-2N | AU-800-2N* |
| L2A-1000-2 | - | K2A-44U-2N | AU-1000-2N |

*Difference in min. wire size.

Two Hole – Three Conductors

| | | | |
|-----------|----------|------------|-----------|
| L3A-250-2 | ADR25-32 | K3A-29U-2N | T3A2-250N |
| L3A-350-2 | ADR35-32 | K3A-31U-2N | T3A2-350N |
| L3A-500-2 | ADR50-32 | K3A-36U-2N | T3A2-500N |

Four Hole – Three Conductors

| | | | |
|-----------|----------|------------|-----------|
| L3A-250-4 | ADR25-34 | K3A-29U-4N | T3A4-250N |
| L3A-350-4 | ADR35-34 | K3A-31U-4N | T3A4-350N |
| L3A-500-4 | ADR50-34 | K3A-36U-4N | T3A4-500N |

Two Hole – Three Conductors – Double Head

| | | | |
|-----------|----------|------------|-----------|
| L3A-800-2 | ADR80-32 | K3A-40U-2N | T3A2-800N |
|-----------|----------|------------|-----------|

Four Hole – Three Conductors – Double Head

| | | | |
|-----------|----------|------------|-----------|
| L3A-800-4 | ADR80-34 | K3A-40U-4N | T3A4-800N |
|-----------|----------|------------|-----------|

Two Hole – One Conductor

| Penn-Union | Anderson | Blackburn |
|-------------|------------|-----------|
| PNL-1/0-2 | - | L-125-2 |
| PNL-1/0-2N | LU-1/0-2 | - |
| PNL-250-2 | - | L-250-2 |
| PNL-250-2N | LU-4/0-2N | - |
| PNL-500-2 | - | L-400-2 |
| PNL-500-2N | LU-500-2N | - |
| PNL-1000-2 | - | L-650-2 |
| PNL-1000-2N | LU-1000-2N | - |

Two Hole – Two Conductors

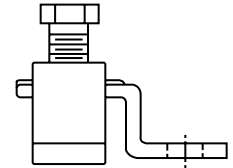
| Penn-Union | Anderson | Blackburn | Dossert |
|-------------|------------|-----------|---------|
| P2NL-1/0-2N | LU2-1/0-2N | - | - |
| P2NL-250-2N | - | TL-250 | D2-25 |
| P2NL-500-2N | LU2-500-2N | TL-400 | D2-50 |

Four Hole – Two Conductors

| | | | |
|--------------|-------------|--------|--------|
| P2NL-500-4N | LU2-500-4N | - | - |
| P2NL-1000-4N | LU2-1000-4N | TL-600 | D2-100 |

*UL Listed

*CSA Certified



COPPER SOLDERLESS LUGS

One Hole – Single Collar

| Penn-Union | Burndy | Dossert | IlSCO |
|------------|--------|---------|---------|
| SLU-25 | - | - | SLU-25 |
| SLU-35 | KPA-8C | G-35-1 | SLU-35 |
| SAU-70 | - | G-35-E1 | SAU-70 |
| SLU-70 | KPA-4C | G-70-1 | SLU-70 |
| SLU-125 | KPA-25 | G-125-1 | SLU-125 |
| SLU-175 | - | G-175-1 | SLU-175 |
| SLU-225 | KPA-28 | G-225-1 | SLU-225 |
| SLU-300 | - | - | SLU-300 |
| SLU-400 | KPA-34 | G-400-1 | SLU-400 |
| SLU-650 | - | G-650-1 | SLU-650 |

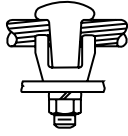
One Hole – Double Collar

| Penn-Union | IlSCO |
|------------|-------|
| LU-2 | LU-2 |
| LU-4 | LU-4 |
| LU-6 | LU-6 |

COMPARATIVE LISTING (UL & CSA FOR PENN-UNION) EYEBOLT TERMINALS & TRANSFORMER GROUND CLAMPS

BRONZE EYEBOLT TERMINALS

Single Eyebolt
For 1/4" Thick Bar

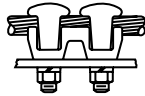


| Penn-Union | Anderson | Burndy | Dossert |
|------------|----------|------------|----------|
| LS-C1E | TLS-22 | QGFL-1CB1 | QL-8 |
| LSN-2/0N | TLS-32 | QGFL-26B2 | QL-13-50 |
| LS-2/0 | TLS-35 | QGFL-26B1 | QL-13 |
| LSN-025N | TLS-42 | QGFL-29B1 | QL-25 |
| LSN-035N | TLS-52 | QGFL-31B1 | QL-35 |
| LSN-050N | TLS-62 | QGFL-34B1 | QL-50 |
| LSN-075 | TLS-72 | QGFL-39B1 | QL-75 |
| LSN-100N | TLS-86 | QGFL-44B1* | QL-100 |
| LS-150E | TLS-92L | QGFL-46B1 | - |
| LS-200E | - | QGFL-48B1* | - |

For 1/4" to 3/4" Thick Bar

| | | | |
|-----------|---------|--------------|----------|
| LS-C1E | TLS-22L | QGFL-1CB1 | QL-8E |
| LSN-2/0NE | TLS-32L | QGFL-26B1T6 | QL-13-50 |
| LSN-2/0E | - | QGFL-26B2 | QL-13E |
| LSN-025NE | TLS-42L | QGFL-29B1T6 | QL-25E |
| LSN-035NE | TLS-52L | QGFL-31B1T6 | QL-35E |
| LSN-050NE | TLS-62L | QGFL-34B1T6 | QL-50E |
| LSN-075E | TLS-72L | QGFL-39B1T6 | QL-75E |
| LSN-100NE | TLS-86L | QGFL-44B1T6* | QL-100E |
| LSN-150E | TLS-92L | QGFL-46B1T6 | - |
| LSN-200E | - | QGFL-48B1T6* | - |

Double Eyebolt (Parallel Connection)
For 1/4" Thick Bar



| | | | |
|----------|----------|------------|----------|
| LDN-2/0N | - | QQGFL-26B2 | - |
| LDN-025N | - | QQGFL-29B1 | - |
| LDN-035N | - | QQGFL-31B1 | - |
| LDN-050N | TLD-62 | - | Q2L-50 |
| LDN-075 | TLD-72 | - | Q2L-75 |
| LDN-100N | TLD-86 | - | Q2L-100* |
| LD-200E | TLD-102L | - | - |

For 1/4" to 3/4" Thick Bar

| | | | |
|-----------|----------|--------------|----------|
| LDN-025NE | - | QQGFL-29B1T6 | - |
| LDN-035NE | - | QQGFL-31B1T6 | - |
| LDN-050NE | TLD-62L | - | Q2L-50E |
| LDN-075E | TLD-72L | - | Q2L-75E |
| LDN-100NE | TLD-86L | - | QL-100E* |
| LD-200E | TLD-102L | - | - |

Double Eyebolt (Tee Connection)
For 1/4" Thick Bar

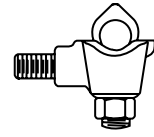


| | | | |
|-----------|--------|---|-----------|
| LDN-2/0N2 | TLD-32 | - | Q2L-13-50 |
| LDN-025N2 | TLD-42 | - | Q2L-25 |

For 1/4" to 3/4" Thick Bar

| | | | |
|------------|---------|---|-----------|
| LDN-2/0N2E | TLD-32L | - | Q2L-13-50 |
| LDN-025N2E | TLD-42L | - | Q2L-25E |

*Difference in min. wire size.



TRANSFORMER GROUND CLAMPS

| Penn-Union | Anderson | Blackburn | Burndy | Dossert |
|------------|----------|-----------|---------|---------|
| GSE-C1 | GTCL-23A | - | - | - |
| GSE-020 | GTCL-34A | - | EQCG32C | - |
| GSE-025 | - | - | - | - |

Two-way basket

| | | | | |
|----------|----------|------|---|--------|
| HGSE-C1 | GTCS-21 | - | - | TGC850 |
| HGSE-020 | GTCS-34A | TTC2 | - | - |
| HGSE-250 | GTCS-41 | - | - | - |

For tin-plating add suffix

| | | | | |
|------|------|-----|------|------|
| - TN | - TP | - P | - TN | - TP |
|------|------|-----|------|------|

GROUNDING CONNECTORS

GROUND ROD CLAMPS
SUITABLE
FOR DIRECT
BURIAL



| Penn-Union | Anderson | Blackburn | Burndy | Dossert | Weaver |
|------------|----------|-----------|---------|---------|--------|
| CAB-0 | - | - | GKP622W | - | - |
| CAB-1 | - | J-AB-1/2H | GKP632W | GN-50 | WB1/2 |
| CAB-2 | - | J-AB-5/8H | - | GN-62 | WB5/8 |
| CAB-3 | - | J-AB-3/4H | GKP642W | GN-75 | WB3/4 |
| CAB-4 | - | - | - | - | - |
| CAB-5 | - | - | GKP652W | - | - |
| CAB-6 | - | - | - | - | WB1 |

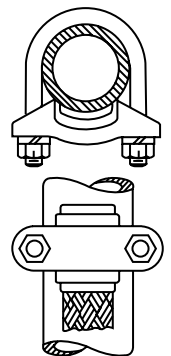
Economy Clamps

| Penn-Union | Anderson | Blackburn | Burndy | Weaver |
|------------|----------|-----------|--------|--------|
| CEB-1 | GC-4 | G4 | GRC-12 | WG4 |
| CEB-2 | GC-5 | G5 | GRC-58 | WG5 |
| CEB-3 | GC-6 | G6 | GRC-34 | WG6 |

GROUND CLAMP CONNECTORS

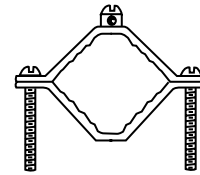
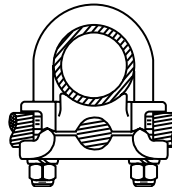
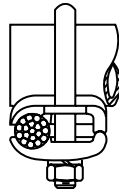
For clamping braid, cable or strip copper to pipe.

| Penn-Union | Anderson | Burndy | Dossert |
|------------|-----------|----------|---------|
| GO-0 | GC-109-03 | - | - |
| GO-1 | GC-109-04 | GG-15-1 | GR-100A |
| GO-2 | GC-109-05 | GG-16-1 | GR-125A |
| GO-3 | - | GG-17-1 | GR-150A |
| GO-4 | - | GG-17-5 | GR-150B |
| GO-4A | GC-109-06 | - | - |
| GO-5 | - | GG-18-1 | GR-200A |
| GO-6 | - | GG-18-15 | GR-200B |
| GO-7 | GC-109-07 | GG-18-2 | GR-200C |
| GO-7A | GC-109-08 | - | - |
| GO-8 | - | GG-19-2 | GR-250A |
| GO-9 | - | GG-19-25 | GR-250B |
| GO-10 | GC-109-09 | GG-20-2 | GR-300A |
| GO-11 | - | GG-20-25 | GR-300B |
| GO-12 | - | GG-20-3 | GR-300C |
| GO-13 | GC-109-10 | GG-21-2 | GR-350A |
| GO-14 | - | GG-21-25 | GR-350B |
| GO-15 | - | GG-21-3 | GR-350C |
| GO-16 | - | GG-22-2 | GR-400A |
| GO-17 | - | GG-22-25 | GR-400B |
| GO-18 | - | GG-22-3 | GR-400C |
| GO-19 | - | GG-22-35 | GR-400D |



COMPARATIVE LISTING (UL & CSA FOR PENN-UNION)

GROUNDING CONNECTORS



GROUND CLAMP CONNECTORS

SUITABLE FOR DIRECT BURIAL

Universal parallel or 90° cable connection to rod or pipe

| Penn-Union | Anderson | Burndy | Dossert |
|------------|------------|----------|-------------|
| GPL-1 | GC-111-2A | GAR-114C | GPC-25-4 |
| GPL-2 | GC-111-2B | GAR-1126 | GPC-25-13 |
| GPL-3 | GC-111-2C3 | GAR-1129 | GPC-25-25 |
| GPL-4 | - | GAR-644C | GPC-38-4 |
| GPL-5 | - | GAR-6426 | GPC-38-13 |
| GPL-6 | - | GAR-6429 | GPC-38-25 |
| GPL-7 | GC-111-3D | GAR-6434 | GPC-38-50 |
| GPL-8 | ** | GAR-144C | GPC-75-4 |
| GPL-9 | ** | GAR-1426 | GPC-75-13 |
| GPL-10 | ** | GAR-1429 | GPC-75-25 |
| GPL-12 | ** | GAR-1439 | GPC-75-50 |
| GPL-13 | ** | - | GPC-75-75 |
| GPL-14 | GC-111-4A | GAR-154C | GPC-100-4 |
| GPL-15 | GC-111-4B | GAR-1526 | GPC-100-13 |
| GPL-16 | GC-111-4C | GAR-1529 | GPC-100-25 |
| GPL-17 | ** | GAR-1534 | GPC-100-50 |
| GPL-18 | ** | GAR-1539 | GPC-100-75 |
| GPL-20 | GC-111-5A | GAR-164C | GPC-125-4 |
| GPL-21 | GC-111-5B | GAR-1626 | GPC-125-13 |
| GPL-22 | GC-111-5C | GAR-1629 | GPC-125-25 |
| GPL-23 | ** | GAR-1634 | GPC-125-50 |
| GPL-24 | ** | GAR-1639 | GPC-125-75 |
| GPL-25 | ** | - | GPC-125-100 |
| GPL-26 | GC-111-6A | GAR-174C | GPC-150-4 |
| GPL-27 | GC-111-6B | GAR-1726 | GPC-150-13 |
| GPL-28 | GC-111-6C | GAR-1729 | GPC-150-25 |
| GPL-29 | ** | GAR-1734 | GPC-150-50 |
| GPL-30 | ** | GAR-1739 | GPC-150-75 |
| GPL-31 | ** | - | GPC-150-100 |
| GPL-32 | GC-111-7A | GAR-184C | GPC-200-4 |
| GPL-33 | GC-111-7B | GAR-1826 | GPC-200-13 |
| GPL-34 | GC-111-7C | GAR-1829 | GPC-200-25 |
| GPL-35 | ** | GAR-1834 | GPC-200-50 |
| GPL-36 | ** | GAR-1839 | GPC-200-75 |
| GPL-37 | ** | - | GPC-200-100 |
| GPL-38 | - | GAR-194C | GPC-250-4 |
| GPL-39 | GC-111-8B | GAR-1926 | GPC-250-13 |
| GPL-40 | GC-111-8C | GAR-1929 | GPC-250-25 |
| GPL-41 | ** | GAR-1934 | GPC-250-50 |
| GPL-42 | ** | GAR-1939 | GPC-250-75 |
| GPL-43 | ** | - | GPC-250-100 |
| GPL-44 | - | GAR-204C | GPC-300-4 |
| GPL-45 | GC-111-9B | GAR-2026 | GPC-300-13 |
| GPL-46 | GC-111-9C | GAR-2029 | GPC-300-25 |
| GPL-47 | ** | GAR-2034 | GPC-300-50 |
| GPL-48 | ** | GAR-2039 | GPC-300-75 |
| GPL-49 | ** | - | GPC-300-100 |
| GPL-50 | - | GAR-214C | GPC-350-4 |
| GPL-51 | GC-111-10B | GAR-2126 | GPC-350-13 |
| GPL-52 | GC-111-10C | GAR-2129 | GPC-350-25 |
| GPL-53 | ** | GAR-2134 | GPC-350-50 |
| GPL-54 | ** | GAR-2139 | GPC-350-75 |
| GPL-55 | ** | - | GPC-350-100 |
| GPL-56 | - | GAR-224C | GPC-400-4 |
| GPL-57 | GC-111-11B | GAR-2226 | GPC-400-13 |
| GPL-58 | GC-111-11C | GAR-2229 | GPC-400-25 |
| GPL-59 | ** | GAR-2234 | GPC-400-50 |
| GPL-60 | ** | GAR-2239 | GPC-400-75 |
| GPL-61 | ** | - | GPC-400-100 |
| GPL-68 | - | GAR-244C | - |
| GPL-69 | GC-111-13B | GAR-2426 | - |
| GPL-70 | GC-111-13C | GAR-2429 | - |
| GPL-71 | ** | GAR-2434 | - |
| GPL-75 | GC-111-14B | - | - |
| GPL-76 | GC-111-14C | - | - |

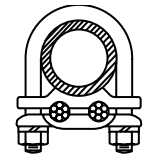
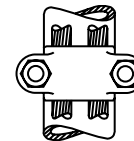
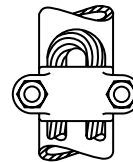
GROUND CLAMPS

For bonding ground wires to water pipe



| Penn-Union | Blackburn | Weaver | IlSCO |
|------------|-----------|--------|-------|
| KP-1* | BJ | J | BGC-1 |
| KP-2* | BJ2 | J-2 | BGC-2 |
| KP-4* | BJ2124 | J-2124 | - |
| GC-1* | - | - | ACG-1 |

*UL Listed



GROUND CLAMP CONNECTORS

For clamping two cables or a looped cable or wire to pipe.

| Penn-Union | Anderson* | Burndy | Dossert |
|------------|-------------|---------|------------|
| GU-00 | GC-110-31D | GD-1426 | - |
| GU-1 | - | GD-154C | GW-100-4 |
| GU-2 | GC-110-41C | GD-1526 | GW-100-13 |
| GU-3 | GC-110-42D | GD-1529 | GW-100-25 |
| GU-4 | - | GD-164C | GW-125-4 |
| GU-5 | GC-110-51C | GD-1626 | GW-125-13 |
| GU-6 | GC-110-52D | GD-1629 | GW-125-25 |
| GU-7 | - | GD-174C | GW-150-4 |
| GU-8 | GC-110-61C | GD-1726 | GW-150-13 |
| GU-9 | GC-110-62C | GD-1729 | GW-150-25 |
| GU-10 | - | GD-184C | GW-200-4 |
| GU-11 | GC-110-81C | GD-1826 | GW-200-13 |
| GU-12 | GC-110-82C | GD-1829 | GW-200-25 |
| GU-13 | ** | GD-1834 | GW-200-50 |
| GU-14 | - | GD-194C | GW-250-4 |
| GU-15 | GC-110-101C | GD-1926 | GW-250-13 |
| GU-16 | GC-110-102C | GD-1929 | GW-250-25 |
| GU-17 | ** | GD-1934 | GW-250-50 |
| GU-18 | - | - | - |
| GU-19 | - | GD-204C | GW-300-4 |
| GU-20 | GC-110-121C | GD-2026 | GW-300-13 |
| GU-21 | GC-110-122C | GD-2029 | GW-300-25 |
| GU-22 | ** | GD-2034 | GW-300-50 |
| GU-23 | - | GD-2039 | GW-300-75 |
| GU-25 | - | GD-214C | GW-350-4 |
| GU-26 | GC-110-141C | GD-2126 | GW-350-13 |
| GU-27 | GC-110-142C | GD-2129 | GW-350-25 |
| GU-28 | ** | GD-2134 | GW-350-50 |
| GU-29 | - | ** | GW-350-75 |
| GU-30 | - | - | GW-350-100 |
| GU-31 | - | GD-224C | GW-400-4 |
| GU-32 | GC-110-161C | GD-2226 | GW-400-13 |
| GU-33 | GC-110-162C | GD-2229 | GW-400-25 |
| GU-34 | ** | GD-2234 | GW-400-50 |
| GU-35 | - | ** | GW-400-75 |
| GU-36 | - | - | GW-400-100 |

*Anderson parts are for one, two or three cables.

**Wire and/or pipe sizes are not the same.

Consult factory for your needs.

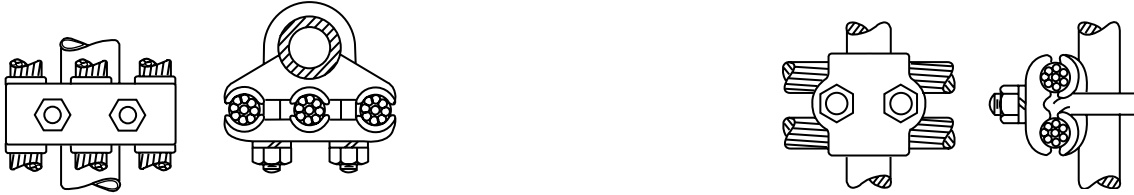
**Wire and/or pipe sizes are not the same.

Consult factory for your needs.

•UL listing limited to a maximum wire size of 250MCM by UL467

COMPARATIVE LISTING

GROUNDING CONNECTORS



GROUND CLAMP CONNECTORS

For clamping three equal size cables to pipe or rod

| Penn-Union | Anderson* | Burndy | Dossert |
|------------|-------------|---------|------------|
| GR-1 | - | GK-114C | GZ-25-4 |
| GR-2 | - | GK-1126 | GZ-25-13 |
| GR-3 | - | - | - |
| GR-4 | - | GK-644C | GZ-38-4 |
| GR-5 | - | GK-6426 | GZ-38-13 |
| GR-6 | - | - | - |
| GR-7 | - | - | GZ-38-50 |
| GR-8 | - | GK-144C | GZ-75-4 |
| GR-9 | ** | GK-1426 | GZ-75-13 |
| GR-10 | ** | GK-1429 | - |
| GR-11 | - | GK-1434 | - |
| GR-12 | - | - | - |
| GR-13 | - | GK-154C | GZ-100-4 |
| GR-14 | GC-110-41C | GK-1526 | GZ-100-13 |
| GR-15 | GC-110-42D | GK-1529 | - |
| GR-16 | - | GK-1534 | GZ-100-50 |
| GR-17 | - | ** | GZ-100-75 |
| GR-18 | - | - | - |
| GR-19 | - | - | GZ-125-4 |
| GR-20 | GC-110-51C | GK-1626 | GZ-125-13 |
| GR-21 | GC-110-52C | - | - |
| GR-22 | ** | - | - |
| GR-23 | - | - | - |
| GR-24 | - | - | - |
| GR-25 | - | - | - |
| GR-26 | GC-110-61C | GK-1726 | GZ-150-13 |
| GR-27 | GC-110-62C | GK-1729 | - |
| GR-28 | ** | GK-1734 | - |
| GR-29 | - | ** | - |
| GR-30 | - | - | - |
| GR-31 | - | GK-184C | GZ-200-4 |
| GR-32 | GC-110-81C | GK-1826 | GZ-200-13 |
| GR-33 | GC-110-82C | - | - |
| GR-34 | ** | - | - |
| GR-35 | - | ** | GZ-200-75 |
| GR-36 | - | - | - |
| GR-37 | - | - | - |
| GR-38 | GC-110-101C | GK-1926 | GZ-250-13 |
| GR-39 | GC-110-102C | GK-1929 | - |
| GR-40 | ** | GK-1934 | GZ-250-50 |
| GR-41 | - | ** | - |
| GR-42 | - | - | GZ-250-100 |
| GR-43 | - | GK-204C | GZ-300-4 |
| GR-44 | GC-110-121C | GK-2026 | - |
| GR-45 | GC-110-122C | GK-2029 | - |
| GR-46 | ** | GK-2034 | - |
| GR-47 | - | ** | - |
| GR-48 | - | - | - |
| GR-49 | - | - | - |
| GR-50 | GC-110-141C | GK-2126 | - |
| GR-51 | GC-110-142C | - | - |
| GR-60 | - | GK-224C | - |
| GR-61 | GC-110-161C | GK-2226 | - |
| GR-62 | GC-110-162C | GK-2229 | - |

*Anderson parts are for one, two, or three cables.
**Wire and/or pipe sizes are not the same.
Consult factory for your needs.

GROUND CLAMP CONNECTORS

For clamping parallel cables or wires to pipe or rod

| Penn-Union | Anderson | Burndy | Dossert |
|------------|------------|---------|------------|
| GT-1 | GC-115-2A | GP-114D | GS-25-4 |
| GT-2 | GC-115-2B | GP-1126 | GS-25-13 |
| GT-3 | GC-115-2C3 | GP-1129 | GS-25-25 |
| GT-4 | GC-115-2A | GP-644C | GS-38-4 |
| GT-5 | GC-115-2B | GP-6426 | GS-38-13 |
| GT-6 | GC-115-2C3 | GP-6429 | GS-38-25 |
| GT-7 | - | GP-6434 | - |
| GT-8 | GC-115-3A | GP-144C | GS-75-4 |
| GT-9 | GC-115-3B | GP-1426 | GS-75-13 |
| GT-10 | GC-115-3C3 | GP-1429 | GS-75-25 |
| GT-11 | - | - | GS-75-50 |
| GT-12 | - | ** | - |
| GT-13 | GC-115-4A | GP-154C | GS-100-4 |
| GT-14 | GC-115-4B | GP-1526 | GS-100-13 |
| GT-15 | - | GP-1529 | GS-100-25 |
| GT-16 | - | - | GS-100-50 |
| GT-17 | - | ** | GS-100-75 |
| GT-18 | GC-115-5A | GP-164C | GS-125-4 |
| GT-19 | GC-115-5B | GP-1626 | GS-125-13 |
| GT-20 | - | GP-1629 | GS-125-25 |
| GT-21 | ** | GP-1634 | GS-125-50 |
| GT-22 | ** | ** | GS-125-75 |
| GT-23 | ** | ** | - |
| GT-24 | GC-115-6A | GP-174C | GS-150-4 |
| GT-25 | GC-115-6B | GP-1726 | GS-150-13 |
| GT-26 | - | GP-1729 | GS-150-25 |
| GT-27 | ** | GP-1734 | GS-150-50 |
| GT-28 | ** | ** | GS-150-75 |
| GT-29 | ** | ** | GS-150-100 |
| GT-30 | GC-115-7A | GP-184C | GS-200-4 |
| GT-31 | GC-115-7B | GP-1826 | GS-200-13 |
| GT-32 | - | GP-1829 | GS-200-25 |
| GT-33 | ** | GP-1834 | GS-200-50 |
| GT-34 | ** | ** | GS-200-75 |
| GT-35 | ** | ** | GS-200-100 |
| GT-36 | - | GP-194C | GS-250-4 |
| GT-37 | GC-115-8B | GP-1926 | GS-250-13 |
| GT-38 | - | GP-1929 | GS-250-25 |
| GT-39 | ** | GP-1934 | GS-250-50 |
| GT-40 | ** | ** | GS-250-75 |
| GT-41 | ** | ** | GS-250-100 |
| GT-42 | - | GP-204C | GS-300-4 |
| GT-43 | GC-115-9B | GP-2026 | GS-300-13 |
| GT-44 | - | GP-2029 | GS-300-25 |
| GT-45 | ** | GP-2034 | GS-300-50 |
| GT-46 | ** | ** | GS-300-75 |
| GT-47 | ** | ** | GS-300-100 |
| GT-48 | - | GP-214C | - |
| GT-49 | - | GP-2126 | - |
| GT-50 | - | GP-2129 | - |
| GT-51 | ** | GP-2134 | - |
| GT-52 | ** | ** | - |
| GT-53 | ** | ** | - |
| GT-54 | - | - | - |
| GT-55 | - | GP-2229 | - |
| GT-56 | ** | GP-2234 | - |

**Wire and/or pipe sizes are not the same.
Consult factory for your needs.

COMPARATIVE LISTING (UL & CSA FOR PENN-UNION)

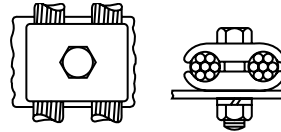
GROUNDING CONNECTORS

GROUND CLAMP CONNECTORS

For clamping cable or wires to flat bar.

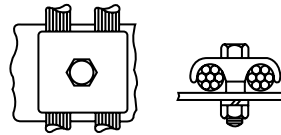
Type GH

| Penn-Union | Anderson | Burndy | Dossert |
|------------|------------|---------|---------|
| GH-1 | — | GC-4C4C | GA-4 |
| GH-2 | GC-143-01 | GC-2626 | GA-13 |
| GH-3 | GC-143A-02 | GC-2929 | GA-25 |
| GH-4 | GC-143-03 | GC-3434 | GA-50 |
| GH-5 | — | ** | ** |
| GH-6 | — | ** | ** |
| GH-7 | — | — | — |



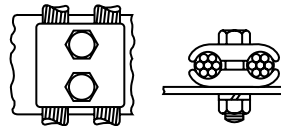
Type GHS

| Penn-Union | Anderson | Burndy | Dossert |
|------------|-----------|--------|---------|
| GHS-1 | — | GCM-4C | GAM-4 |
| GHS-2 | GC-142-G1 | GCM-26 | GAM-13 |
| GHS-3 | GC-142-G2 | GCM-29 | GAM-25 |
| GHS-4 | GC-142-G3 | GCM-34 | GAM-50 |
| GHS-5 | — | ** | ** |
| GHS-6 | — | ** | ** |
| GHS-7 | — | — | — |



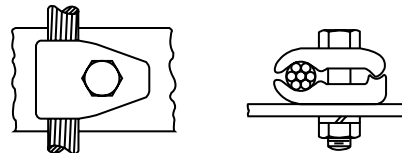
Type GJ

| Penn-Union | Anderson | Burndy | Dossert |
|------------|-----------|---------|---------|
| GJ-1 | — | GL-4C4C | GAA-4 |
| GJ-2 | GC-144-01 | GL-2626 | GAA-13 |
| GJ-3 | GC-144-02 | GL-2929 | GAA-25 |
| GJ-4 | GC-144-03 | GL-3434 | GAA-50 |
| GJ-5 | — | ** | ** |
| GJ-6 | — | ** | ** |
| GJ-7 | — | — | — |



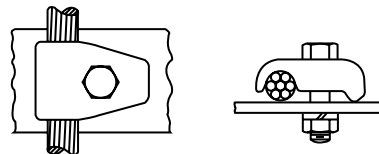
Type GM

| Penn-Union | Anderson | Burndy | Dossert |
|------------|-----------|--------|---------|
| GM-1 • | — | GB-4C | GF-4 |
| GM-2 • | ** | GB-26 | GF-13 |
| GM-3 • | ** | GB-29 | GF-25 |
| GM-4 | GC-141-03 | GB-34 | GF-50 |
| GM-5 | — | GB-39 | ** |
| GM-6 | GC-141-10 | ** | ** |



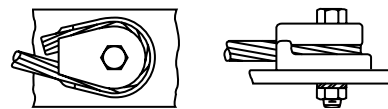
Type GMS

| Penn-Union | Anderson | Burndy | Dossert |
|------------|-----------|--------|---------|
| GMS-1 • | — | GBM-4C | GFM-4 |
| GMS-2 • | GC-140-01 | GBM-26 | GFM-13 |
| GMS-3 • | GC-140-02 | GBM-29 | GFM-25 |
| GMS-4 | GC-140-03 | GBM-34 | GFM-50 |
| GMS-5 | ** | ** | ** |
| GMS-6 | ** | GBM-44 | ** |



Type GWL

| Penn-Union | Anderson | Burndy | Dossert |
|------------|-----------|----------|----------|
| GWL-1 • | GC-126-01 | GZ-4C-38 | GL-4-38 |
| GWL-2 • | — | GZ-4C-12 | GL-4-50 |
| GWL-3 • | GC-126-02 | GZ-26-38 | GL-13-38 |
| GWL-4 • | — | GZ-26-12 | GL-13-50 |
| GWL-5 • | GC-126-03 | GZ-29-38 | GL-25-38 |
| GWL-6 • | — | GZ-29-12 | GL-25-50 |
| GWL-7 • | — | GZ-29-58 | GL-25-63 |



**Cable range different. Consult factory for your need.

•UL and CUL listed suitable for direct burial

CONTACT COMPOUND

| Penn-Union | Anderson | Blackburn | Burndy | Dossert | IlSCO | T & B |
|---------------|----------|----------------|--------------|---------|-------|----------------------|
| — | 155 | — | PENETROX A | Z5 | — | 21059 (1/2 pt. only) |
| — | 200-GM | — | PENETROX A2 | — | — | — |
| CUAL-AID #11C | 173 | Contax Type CT | PENETROX A13 | ZH | DE-OX | — |
| CUAL-AID #12C | 173-GM | — | PENETROX A14 | — | — | — |

All of above must specify quantity volume (1/2 pt. Flask, Pint Can, Quart Can or 5 Gallon Can).
CUAL-AID #11 & 12 are synthetic based which may be substituted for petroleum based product.

COMPARATIVE LISTING (UL & CSA FOR PENN-UNION) SERVICE POST CONNECTORS



SUITABLE FOR
DIRECT BURIAL



SUITABLE FOR
DIRECT BURIAL

BRONZE SERVICE POSTS

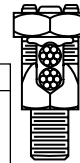
Male Type – For one cable

| Penn-Union | Burndy | Dossert |
|------------|----------|---------|
| SSS-0 | KC-15 | DGN-1 |
| SSS-0A1 | KC-15B1 | – |
| SSS-1 | KC-17* | DGN-2 |
| SSS-1A1 | KC-17B1* | – |
| SSS-2 | KC-20 | DGN-3 |
| SSS-2A1 | KC-20B1 | – |
| SSS-3 | KC-22* | DGN-5 |
| SSS-3A1 | KC-22B1* | – |
| SSS-4 | KC-23* | DGN-6 |
| SSS-4A1 | KC-23B1* | – |
| SSS-5 | KC-25 | DGN-10 |
| SSS-5A1 | KC-25B1 | – |
| SSS-6 | KC-26* | DGN-13 |
| SSS-6A1 | KC-26B1* | – |
| SSS-8 | KC-28* | DGN-21 |
| SSS-8A1 | KC-28B1* | – |
| SSS-9 | KC-31* | DGN-35 |
| SSS-9A1 | KC-31B1* | – |
| SSS-10 | KC-34* | DGN-50 |
| SSS-10A1 | KC-34B1* | – |
| SSS-11 | KC-39 | DGN-75 |
| SSS-11A1 | KC-39B1 | – |
| SSS-12 | KC-44* | DGN-100 |
| SSS-12A1 | KC-44B1* | – |



Male Type – For two cables

| Penn-Union | Burndy | Dossert |
|------------|----------|---------|
| SCS-0 | K2C-15 | DGM-1 |
| SCS-0A1 | K2C-15B1 | – |
| SCS-1 | K2C-17 | DGM-2 |
| SCS-1A1 | K2C-17B1 | – |
| SCS-2 | K2C-20 | DGM-3 |
| SCS-2A1 | K2C-20B1 | – |
| SCS-3 | K2C-22 | DGM-5 |
| SCS-3A1 | K2C-22B1 | – |
| SCS-4 | K2C-23 | DGM-6 |
| SCS-4A1 | K2C-23B1 | – |
| SCS-5 | K2C-25 | DGM-10 |
| SCS-5A1 | K2C-25B1 | DGM-10L |
| SCS-6 | K2C-26 | DGM-13 |
| SCS-6A1 | K2C-26B1 | – |
| SCS-8 | K2C-28 | DGM-21 |
| SCS-8A1 | K2C-28B1 | – |
| SCS-9 | K2C-31 | DGM-35 |
| SCS-9A1 | K2C-31B1 | – |
| SCS-10 | K2C-34 | DGM-50 |
| SCS-10A1 | K2C-34B1 | – |
| SCS-11 | K2C-39 | DGM-75 |
| SCS-11A1 | K2C-39B1 | – |
| SCS-12 | K2C-44 | DGM-100 |
| SCS-12A1 | K2C-44B1 | – |



Female Type – For one cable

| Penn-Union | Burndy | Dossert |
|------------|--------|---------|
| STS-0 | KF-15 | DGG-1 |
| STS-1 | KF-17 | DGG-2 |
| STS-2 | KF-20* | DGG-3 |
| STS-3 | KF-22* | DGG-5 |
| STS-4 | KF-23* | DGG-6 |
| STS-5 | KF-25 | DGG-10 |
| STS-6 | KF-26 | DGG-13 |
| STS-8 | KF-28* | DGG-21 |
| STS-9 | KF-31* | DGG-35 |
| STS-10 | KF-34* | DGG-50 |
| STS-11 | KF-39* | DGG-75 |
| STS-12 | KF-44* | DGG-100 |



Female Type - For two cables

| Penn-Union | Burndy | Dossert |
|------------|--------|---------|
| SDS-0 | K2F-15 | DGF-1 |
| SDS-1 | K2F-17 | DGF-2 |
| SDS-2 | K2F-20 | DGF-3 |
| SDS-3 | K2F-22 | DGF-5 |
| SDS-4 | K2F-23 | DGF-6 |
| SDS-5 | K2F-25 | DGF-10 |
| SDS-6 | K2F-26 | DGF-13 |
| SDS-8 | K2F-28 | DGF-21 |
| SDS-9 | K2F-31 | DGF-35 |
| SDS-10 | K2F-34 | DGF-50 |
| SDS-11 | K2F-39 | DGF-75 |
| SDS-12 | K2F-44 | DGF-100 |



*Difference in minimum wire size.



486B LISTED
AL9CU

Aluminum Clear Insulated Power Bar

| Penn-Union Corp. | | | Polaris/NSI | | | Penn-Union Corp. | | | Polaris/NSI | | |
|------------------|-------------|--------|-------------|------------|------------|------------------|-------------|-------|-------------|------------|------------|
| Catalog No. | Wire Range | Entry | Catalog No. | Wire Range | Entry | Catalog No. | Wire Range | Entry | Catalog No. | Wire Range | Entry |
| IPB-NA4-2D | 4-14 Sol. | Dual | ITO-4 | 4-14 Sol. | Alternate | IPB-NA250-8D | 250-10 Sol. | Dual | IPL-250-8 | 250-6 | Single |
| IPB-NA4-2S | 4-14 Sol. | Single | IT-4 | 4-14 Sol. | Single | | | | IPLD-250-8 | 250-6 | Dual |
| IPB-NA4-4D | 4-14 Sol. | Dual | IPL-4-4 | 4-14 Sol. | Single | IPB-NA350-2D | 350-10 Sol. | Dual | IT-350 | 350-6 | Dual (2X1) |
| IPB-NA4-4S | 4-14 Sol. | Single | IPL-4-4 | 4-14 Sol. | Single | | | | IPL-350-2 | 350-6 | Single |
| IPB-NA2/0-2S | 2/0-14 Sol. | Single | IT-1/0 | 1/0-14 | Single | IPB-NA350-3D | 350-10 Sol. | Dual | IPL-350-3 | 350-6 | Single |
| IPB-NA2/0-2D | 2/0-14 Sol. | Dual | ITO-1/0 | 1/0-14 | Alternate | | | | IPLD-350-3 | 350-6 | Dual |
| IPB-NA2/0-3D | 2/0-14 Sol. | Dual | IPL-1/0-3 | 1/0-14 | Single | IPB-NA350-4D | 350-10 Sol. | Dual | IPL-350-4 | 350-6 | Single |
| IPB-NA2/0-4D | 2/0-14 Sol. | Dual | IPL-1/0-4 | 1/0-14 | Single | | | | IPLD-350-4 | 350-6 | Dual |
| IPB-NA2/0-4S | 2/0-14 Sol. | Single | IPL-1/0-4 | 1/0-14 | Single | IPB-NA350-6D | 350-10 Sol. | Dual | IPL-350-6 | 350-6 | Single |
| IPB-NA2/0-6D | 2/0-14 Sol. | Dual | IPL-1/0-6 | 1/0-14 | Single | | | | IPLD-350-6 | 350-6 | Dual |
| IPB-NA250-2D | 250-10 Sol. | Dual | IT-3/0 | 3/0-6 | Single | IPB-NA350-8D | 350-10 Sol. | Dual | IPL-350-8 | 350-6 | Single |
| | | | ITO-3/0 | 3/0-6 | Alternate | | | | IPLD-350-8 | 350-6 | Dual |
| | | | IT-250 | 250-6 | Dual (2X1) | IPB-NA500-2D | 500-6 Sol. | Dual | IT-500 | 500-4 | Dual (2X1) |
| | | | IPL-250-2 | 250-6 | Single | | | | IPL-500-2 | 500-4 | Single |
| IPB-NA250-3D | 250-10 Sol. | Dual | IPL-3/0-3 | 3/0-6 | Single | IPB-NA500-3D | 500-6 Sol. | Dual | IPL-500-3 | 500-4 | Single |
| | | | IPL-250-3 | 250-6 | Single | | | | IPLD-500-3 | 500-4 | Dual |
| | | | IPLD-250-3 | 250-6 | Dual | IPB-NA500-4D | 500-6 Sol. | Dual | IPL-500-4 | 500-4 | Single |
| IPB-NA250-4D | 250-10 Sol. | Dual | IPL-250-4 | 250-6 | Single | | | | IPLD-500-4 | 500-4 | Dual |
| | | | IPLD-250-4 | 250-6 | Dual | IPB-NA500-6D | 500-6 Sol. | Dual | IPL-500-6 | 500-4 | Single |
| IPB-NA250-6D | 250-10 Sol. | Dual | IPL-250-6 | 250-6 | Single | | | | IPLD-500-6 | 500-4 | Dual |
| | | | IPLD-250-6 | 250-6 | Dual | IPB-NA500-8D | 500-6 Sol. | Dual | IPL-500-8 | 500-4 | Single |
| | | | | | | | | | IPLD-500-8 | 500-4 | Dual |

General Comments On Connectors

Wherever there is a conductor carrying electric current, it is necessary to make a connection. This is true whether the conductor is a solid or stranded wire, a rectangular bus bar or a piece of copper pipe. This also is true whether the conductor is an inch in length, a foot in length, or several hundred feet in length. Conductors are joined by several methods. The oldest methods are the fusion of conductors by means of soldering, brazing or welding, with the very oldest being the blacksmith form of welding. Joining techniques of this type require special skill and special equipment, consequently, other means have been developed which are more generally applied. These are the pressure method which is divided between the bolted or mechanical type joint and the compression type connector which uses special tools to develop the necessary forces. One other joining technique that is frequently used is soldering. However, this has its limitations, because of the possibility of the joint's melting out during temporary overload conditions.

Connector Materials

Since most electrical conductors are either copper or aluminum, it also has become standard for the connector industry to make connectors of copper and aluminum. The category of copper connectors includes pure copper and alloys of bronze and brasses; these materials can be fabricated by casting, forging, extruding, punching, or any combination of these processes. The aluminum connectors are made of alloys used to provide the best electrical conductivity; however, in some cases, a compromise material is used to give optimum combination of electrical conductivity and mechanical strength. A general practice has been to use copper connectors for copper conductor and aluminum connectors for aluminum conductor. In some cases where a transition from copper to aluminum conductors must be made, it is advantageous to use a bimetallic connector, thus making the transition in the connector rather than in the junction of the connector and conductor.

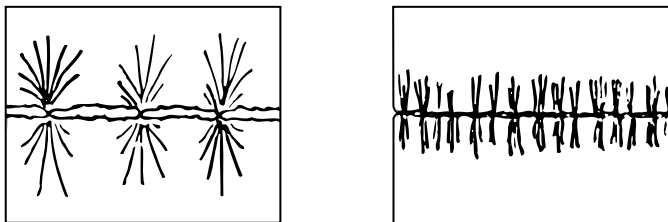


Figure 1. As force is increased the surface roughness flattens out creating a multiplicity of parallel paths.

Welding Connectors

Welding, particularly of aluminum bus, has become increasingly popular because the materials are united in a homogeneous bond. The bus can be joined directly, or through the use of weldments. Weldments eliminate the need for field cutting and matching. They also act as fixtures and help align the bus structure during erection. Tungsten inert gas (TIG) has become increasingly popular for joining of aluminum conductors.

Pressure Connectors—Bolted and Compression

The simplest and most widely used method of joining conductors is by means of externally applied pressure. This pressure can be developed by means of clamp type connectors using bolts and nuts or by compression connectors using special compression tools to develop the necessary forces.

As two surfaces are brought together to make a joint, the microscopic peaks touch each other as shown in Figure 1. As force continues to be applied, the relatively few peaks flatten out into a large number of plateaus and current is transferred across the interface. This relationship is clearly shown in Figure 2 in which resistance is plotted against force. The important thing about this relationship is that once sufficient force has been applied to establish a safe value of resistance, considerable relaxation can occur before the resistance starts to rise again. A well designed clamp or compression connector thus has some safety factor built into it right from the beginning.

All clamp type connectors depend upon the thrust developed by the bolts to deliver the force necessary for a sound, stable connection. For a bolt to do its job, it must have adequate strength so that it can be torqued up properly, it must develop correct thrust for the installation torque recommended, and above all, it must be reliable and not fail during service.

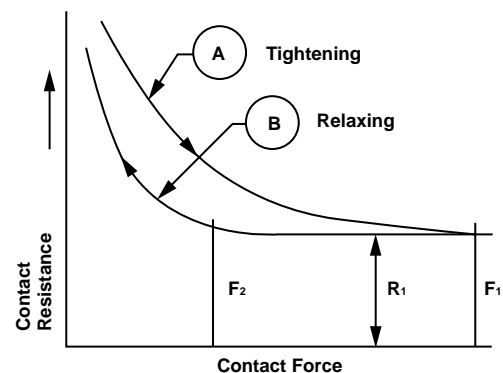


Figure 2. Contact resistance curves.

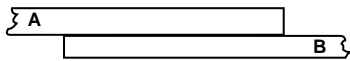
Table I shows the recommended tightening torques for silicon bronze, stainless steel, galvanized steel and aluminum alloy hardware. The shaded portion represents torques presently recommended by NEMA-CC1-1984 specification.

**TABLE I
TIGHTENING TORQUES**

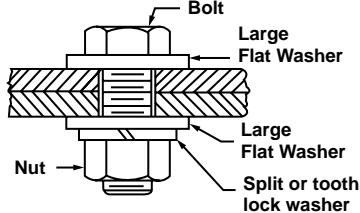
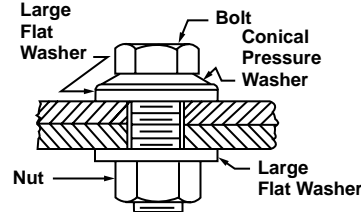
| Bolt Diameter | Nominal Torque Values | | | |
|----------------------------------|-----------------------------------------------|-----------|-----------------------------|-----------|
| | Silicon Bronze, Galvanized or Stainless Steel | | Aluminum Alloy (Lubricated) | |
| | Ft.-Lbs. | Inch-Lbs. | Ft.-Lbs. | Inch-Lbs. |
| ⁵ / ₁₆ -18 | 15 | 180 | — | — |
| ³ / ₈ -16 | 20 | 240 | 14 | 168 |
| ¹ / ₂ -13 | 40 | 480 | 25 | 300 |
| ⁵ / ₈ -11 | 55 | 660 | 40 | 480 |
| ³ / ₄ -10 | 80 | 960 | 70 | 840 |

For optimum efficiency, it is necessary that the correct bolt, nut and washer combination be used with the correct combination of conductor materials. Table II 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 II
METHODS OF JOINING BUS BARS**

| If "A" Bar is and If "B" Bar is | Copper | Aluminum | Steel | Aluminum | Steel |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| | 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
 Note: Contact sealant recommended between aluminum to aluminum and aluminum to copper connections, unless other protective measures are taken.

Bar Connections

The tang of a compression or a mechanical connector is a bus bar, which connects to another bus bar. If you remember the rule about wire brushing and using joint compound with bare (unplated) aluminum, you cannot go wrong. Plated parts should be cleaned with a solvent if they are dirty, but never abrade or otherwise disturb the plating! Fig. 3 shows a typical bar connection and the type of hardware used.

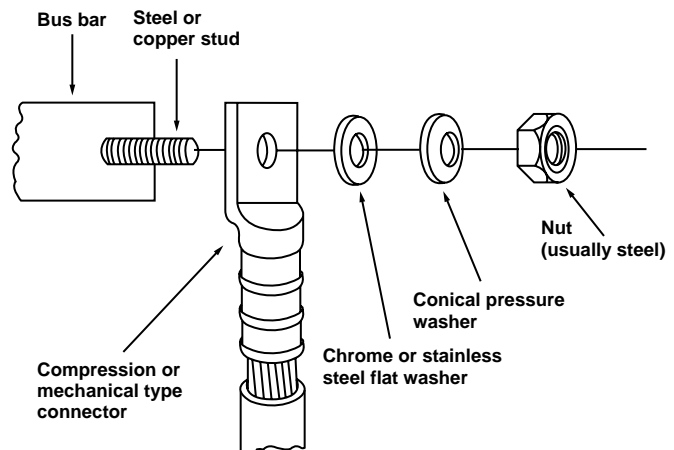


Figure 3. Contact surfaces must be clean. Use a joint compound with bare aluminum. Conical pressure washer is usually recommended if one, or both, bus materials are soft drawn aluminum.

Compression connector crimping methods

To retain UL or CSA rating, Installation tools and methods must be matched to the connectors used

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.

Cable preparation

It is imperative that the cable strands and the compression connector be clean and free of dirt and/or corrosion. This is particularly important when making connections on cables which have been installed for a period of time.

Connectors which are Underwriters Laboratories Listed or Canadian Standards Association Certified may contain installation instructions in the connector carton which may include information such as usable cable types, insulation strip lengths, and crimping tools for specific connectors. Proper preparation of the cable can make the difference between a permanent connection and a connection which may require a service call at some point in the future.

The cable material will dictate the type of connector which can be used in the compression connection. Copper cable can be installed in a copper compression connector which has a "CU" rating or in an aluminum compression connector which has a "AL9CU" rating. Aluminum cable on the other hand can ONLY be installed in an aluminum compression connector which has a rating of "AL" or "AL7CU". **ALUMINUM CABLE CAN NEVER BE INSTALLED IN A COPPER COMPRESSION CONNECTOR.**

Once the cable preparation has been accomplished and the proper type and size of compression connector has been selected, the connector manufacturer's recommendations for choice of compression tooling and compression methods should be followed to maintain the UL and/or CSA rating for the completed connection. Connector manufacturers will often be in a position to specify several equivalent UL/CSA crimping recommendations for a specific connector installation. For connectors from No. 22 AWG through No. 10 AWG the compression tools most often have mechanical operation. For No. 8 AWG through 4/0 AWG the compression tools could use either mechanical or hydraulic means to apply the crimping force. Historically at 250 kcmil and above in wire size, the crimping force was almost always applied by a hydraulic crimping tool. With the advent of the TDM500 that has changed to 500 kcmil due to the extra available leverage generated by the extendable handles. Mechanical tools for small wire sizes are generally single leverage types, while those for the medium sized cables apply the crimping force via a compound leverage system. Mechanical crimping tools make either a surrounding type of crimp (Fig. 4A) or a nest and indenter crimp shape (Fig. 4B). The hydraulic crimping

tools used for the medium and the large cable sizes can have quite a variety of crimping die systems and hydraulic pressure sources.

Die-type crimpers

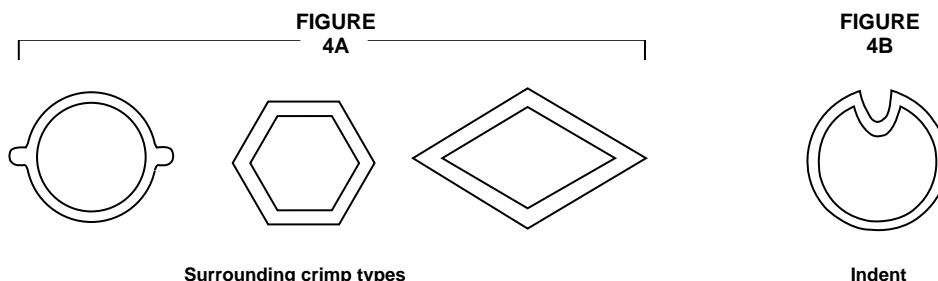
The die-type tools require that a separate set of inserts be placed into the crimping tool head for each different size and type (AL or CU) of connector that is to be crimped. These crimping die inserts are shaped to compress their specific connector size the correct amount when the full force of the hydraulic system of the tool is applied to them. Die type crimping tools generally produce crimps that surround the barrel of the connector with either a rounded oval or a hexagonally shaped outer surface.

Many of the copper and the aluminum connectors used in the electrical contracting industry have a color code applied to them which matches up with a crimping die reference of the same color. This color code is meant to allow the installer to be able to find the correct die more quickly from as many as several dozen die sets that may be required to crimp all of the connectors within the installation range of the specific hydraulic crimping tool.

Certain styles of connectors used in the electric utility industry are designed to minimize the number of crimping die sets that each line crew must carry. These special connectors are designed to have a constant outside diameter on the crimp barrel portion of the connector with various inside diameter to match conductor size. For example, a popular grouping of electric utility connectors has a constant outside diameter of 0.640 inches for a series of cable sizes from No. 10 AWG through 1/0 AWG and all of the individual connectors are crimped with the same die insert. Electric utilities also use a series of compression taps with a cross section shape similar to the letter "H" which are grouped to install most cable size combinations between No. 6 AWG and 500 kcmil with only three crimping die sizes.

Dieless crimpers

The other class of hydraulic crimping tools are the dieless tools. Dieless actually means that there is no die insert change needed when one needs to crimp a different connector size within the range of the tool. The dieless hydraulic tools can be further classified by the three general crimp shapes that are made. One group of dieless tools makes crimps which are of the nest and indenter style with the next being a stationary portion of the tool and the indenter moving with the hydraulic ram. A second grouping of dieless tools makes use of multiple indentors which indent the connector from multiple sides without the use of a nest. The third group of dieless tools provides a crimp which surrounds the connector barrel and has an appearance more like that of a die type tool than either of the two indenter style dieless tools can provide. All of the dieless tool types are capable of crimping cylindrical connector barrels as recommended by their respective manufacturers.




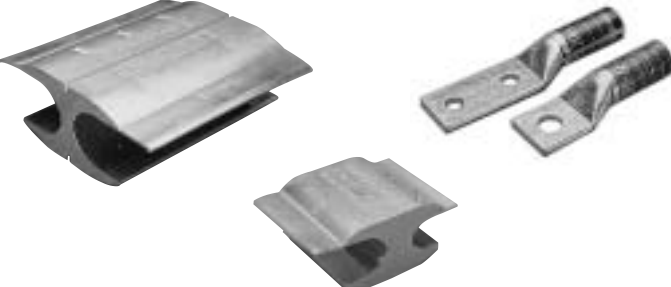
Some dieless tool brands of each type are also recommended by their manufacturers to be able to provide cable range-taking capabilities (a single connector size could be used for more than one cable size) under very specific conditions of connector brand; catalog number; cable sizes; and installation procedure for which these tool manufacturers have tested and obtained UL and/or CSA listing.

The necessity to maintain UL Listing and/or CSA Certification for a connector installation can limit the available combinations of connectors and crimp tools which can be used in a specific situation. Dieless compression tool systems offer decided advantages in installation flexibility and time saving, particularly if both cylindrical and H-frame connectors can be installed with a single dieless tool.

CONNECTOR COMPARISON CHART MECHANICAL VS. COMPRESSION

The variety of connectors available to the utility engineer can be broken down into 2 general categories – bolted and compressed. The pros and cons of these different methods of making electrical connections are often puzzling to engineers and consultants. The

following chart has been prepared in an effort to clarify thinking on this subject and to provide a yardstick for making a basic decision on connection methods.

|  |  |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Mechanical or Clamp Connectors | Crimp or Compression Connectors |
| 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 or aluminum. | Separate designs required for aluminum, or aluminum to copper. |
| Salvageable. Conductor can be removed and replaced if necessary. Wiring changes easily made. | Not salvageable. Conductor and connector must be cut-off and scrapped if change is 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—higher on large volume jobs. | Installed cost generally lower, particularly where large quantities are involved. |
| No special tools to install. Can use screwdriver, pliers, wrench. | Special tools and dies required. If wrong tool or die is used, poor joint results. |

TIGHTENING TORQUE BY BOLT TYPE

| Smaller than No. 10 intended for use with No. 8 AWG or smaller conductors | | |
|---------------------------------------------------------------------------|--------------------------|------------------------|
| Tightening Torque, Pound-Inches (N•m) | | |
| Slot Width of Screw, inch (mm) ^a | | |
| Slot Length of Screw, Inch (mm) ^b | Smaller Than 0.047 (1.2) | 0.047 (1.2) and Larger |
| Less than 5/32 (4) | 7 (0.79) | 9 (1.0) |
| 5/32 (4) | 7 (0.79) | 12 (1.4) |
| 3/16 (4.8) | 7 (0.79) | 12 (1.4) |
| 7/32 (5.6) | 7 (0.79) | 12 (1.4) |
| 1/4 (6.4) | 9 (1.0) | 12 (1.4) |
| 9/32 (7.1) | | 15 (1.7) |
| Above 9/32 (7.1) | | 20 (2.3) |

^a Slot width is the nominal design value.

^b For slot lengths of intermediate values, select torques pertaining to next shorter slot length. Slot length is to be measured at the bottom of the slot.

| Socket Head Screws | | | |
|-------------------------------------|--------|---------------------------------------|--------|
| Socket Size Across Flats, Inch (mm) | | Tightening Torque, Pound-Inches (N•m) | |
| 1/8 | (3.2) | 45 | (5.1) |
| 5/32 | (4.0) | 100 | (11.3) |
| 3/16 | (4.8) | 120 | (13.6) |
| 7/32 | (5.6) | 150 | (16.9) |
| 1/4 | (6.4) | 200 | (22.6) |
| 5/16 | (7.9) | 275 | (31.1) |
| 3/8 | (9.5) | 375 | (42.4) |
| 1/2 | (12.7) | 500 | (56.5) |
| 9/16 | (14.3) | 600 | (67.8) |

PROPERTIES OF COPPER PIPE

| | Nominal Size Inches (IPS) | Outside Diameter Inches† | Inside Diameter Inches | Wall Thickness Inches | Area | | Approx. Weight Lbs./ Ft. | Indoor Capacity for 30°C Temp. Rise | |
|--------------------------|---------------------------|--------------------------|------------------------|-----------------------|------------|--------|--------------------------|-------------------------------------|----------------|
| | | | | | Sq. Inches | Sq. CM | | NEMA CC1-1984 Ratings | |
| | | | | | | | | Indoors Amps. | Outdoors Amps. |
| Standard Copper Pipe† | 3/8 | .675 | .494 | .0905 | .166 | 1.06 | .641 | — | — |
| | 1/2 | .840 | .625 | .1075 | .247 | 1.59 | .955 | 380 | 510 |
| | 3/4 | 1.050 | .822 | .1140 | .335 | 2.16 | 1.30 | 540 | 710 |
| | 1 | 1.315 | 1.062 | .1265 | .472 | 3.04 | 1.83 | 650 | 850 |
| | 1 1/4 | 1.660 | 1.368 | .1460 | .694 | 4.48 | 2.69 | 870 | 1,120 |
| | 1 1/2 | 1.900 | 1.600 | .1500 | .825 | 5.32 | 3.20 | 1,020 | 1,280 |
| | 2 | 2.375 | 2.062 | .1565 | 1.09 | 7.03 | 4.23 | 1,250 | 1,550 |
| | 2 1/2 | 2.875 | 2.500 | .1875 | 1.58 | 10.2 | 6.12 | 1,700 | 2,000 |
| | 3 | 3.500 | 3.062 | .2190 | 2.26 | 14.6 | 8.75 | 2,175 | 2,550 |
| | 3 1/2 | 4.000 | 3.500 | .2500 | 2.95 | 19.0 | 11.4 | 2,575 | 3,050 |
| | 4 | 4.500 | 4.000 | .2500 | 3.34 | 21.5 | 12.9 | 2,850 | 3,400 |
| | 5 | 5.563 | 5.063 | .2500 | 4.17 | 26.9 | 16.2 | 3,450 | 4,100 |
| | 6 | 6.625 | 6.125 | .2500 | 5.01 | 32.3 | 19.4 | 4,000 | 4,700 |
| | 8 | 8.625 | 8.000 | .3125 | 8.16 | 52.6 | 31.6 | — | — |
| | 10 | 10.750 | 10.019 | .3655 | 11.9 | 76.8 | 46.2 | — | — |
| Extra Strong Copper Pipe | 1/4 | .540 | .294 | .123 | .161 | 1.04 | .624 | — | — |
| | 3/8 | .675 | .421 | .127 | .219 | 1.41 | .847 | — | — |
| | 1/2 | .840 | .542 | .149 | .323 | 2.08 | 1.25 | 420 | 580 |
| | 3/4 | 1.050 | .736 | .157 | .440 | 2.84 | 1.71 | 590 | 780 |
| | 1 | 1.315 | .951 | .182 | .648 | 4.18 | 2.51 | 750 | 1,010 |
| | 1 1/4 | 1.660 | 1.272 | .194 | .893 | 5.67 | 3.46 | 975 | 1,250 |
| | 1 1/2 | 1.900 | 1.494 | .203 | 1.08 | 6.97 | 4.19 | 1,150 | 1,450 |
| | 2 | 2.375 | 1.933 | .221 | 1.49 | 9.68 | 5.79 | 1,500 | 1,850 |
| | 2 1/2 | 2.875 | 2.315 | .280 | 2.29 | 14.7 | 8.84 | 1,975 | 2,400 |
| | 3 | 3.500 | 2.892 | .304 | 3.05 | 19.7 | 11.8 | 2,475 | 2,950 |
| | 3 1/2 | 4.000 | 3.358 | .321 | 3.71 | 23.9 | 14.4 | 2,875 | 3,400 |
| | 4 | 4.500 | 3.818 | .341 | 4.45 | 28.8 | 17.3 | 3,100 | 3,800 |
| | 5 | 5.563 | 4.813 | .375 | 6.11 | 39.4 | 23.7 | 3,850 | 4,600 |
| | 6 | 6.625 | 5.751 | .437 | 8.49 | 54.8 | 32.9 | 4,500 | 5,200 |
| | 8 | 8.625 | 7.625 | .500 | 12.76 | 82.6 | 49.5 | — | — |
| 10 | 10.750 | 9.750 | .500 | 16.10 | 104 | 62.4 | — | — | |

ASTM-B188

†Standard OD same as rigid steel conduit.

PROPERTIES OF EXTRUDED ALUMINUM PIPE 6063-T6 ALUMINUM ALLOY – 53% IACS

| Schedule 40 | | | | | | | Schedule 80 | | | | | | |
|-------------|---------------------------------|--------------------------------|-------------------------------|-------------------------|------------------------|-----------|-------------|---------------------------------|--------------------------------|-------------------------------|-------------------------|------------------------|-----------|
| IPS Size | Nominal Outside Diameter Inches | Nominal Inside Diameter Inches | Nominal Wall Thickness Inches | Nominal Weight Lbs./Ft. | Current Rating Amperes | | IPS Size | Nominal Outside Diameter Inches | Nominal Inside Diameter Inches | Nominal Wall Thickness Inches | Nominal Weight Lbs./Ft. | Current Rating Amperes | |
| | | | | | Indoors* | Outdoors† | | | | | | Indoors* | Outdoors† |
| 1/2 | 0.840 | 0.622 | 0.109 | 0.294 | 315 | 400 | 1/2 | 0.840 | 0.546 | 0.147 | 0.376 | 360 | 455 |
| 3/4 | 1.050 | 0.824 | 0.113 | 0.391 | 400 | 495 | 3/4 | 1.050 | 0.742 | 0.154 | 0.510 | 455 | 565 |
| 1 | 1.315 | 1.049 | 0.133 | 0.581 | 535 | 650 | 1 | 1.315 | 0.957 | 0.179 | 0.751 | 605 | 740 |
| 1 1/4 | 1.660 | 1.380 | 0.140 | 0.786 | 680 | 810 | 1 1/4 | 1.660 | 1.278 | 0.191 | 1.037 | 780 | 930 |
| 1 1/2 | 1.900 | 1.610 | 0.145 | 0.940 | 790 | 930 | 1 1/2 | 1.900 | 1.500 | 0.200 | 1.256 | 910 | 1070 |
| 2 | 2.375 | 2.067 | 0.154 | 1.264 | 1000 | 1155 | 2 | 2.375 | 1.939 | 0.218 | 1.737 | 1175 | 1355 |
| 2 1/2 | 2.875 | 2.469 | 0.203 | 2.004 | 1365 | 1550 | 2 1/2 | 2.875 | 2.323 | 0.276 | 2.650 | 1570 | 1780 |
| 3 | 3.500 | 3.068 | 0.216 | 2.621 | 1670 | 1895 | 3 | 3.500 | 2.900 | 0.300 | 3.547 | 1935 | 2195 |
| 3 1/2 | 4.000 | 3.548 | 0.226 | 3.151 | 1945 | 2170 | 3 1/2 | 4.000 | 3.364 | 0.318 | 4.326 | 2265 | 2530 |
| 4 | 4.500 | 4.026 | 0.237 | 3.733 | 2230 | 2460 | 4 | 4.500 | 3.826 | 0.337 | 5.183 | 2605 | 2880 |
| 5 | 5.563 | 5.047 | 0.258 | 5.057 | 2845 | 3080 | 5 | 5.536 | 4.813 | 0.375 | 7.188 | 3355 | 3635 |
| 6 | 6.625 | 6.065 | 0.280 | 6.564 | 3500 | 3735 | 6 | 6.625 | 5.761 | 0.432 | 9.884 | 4205 | 4490 |

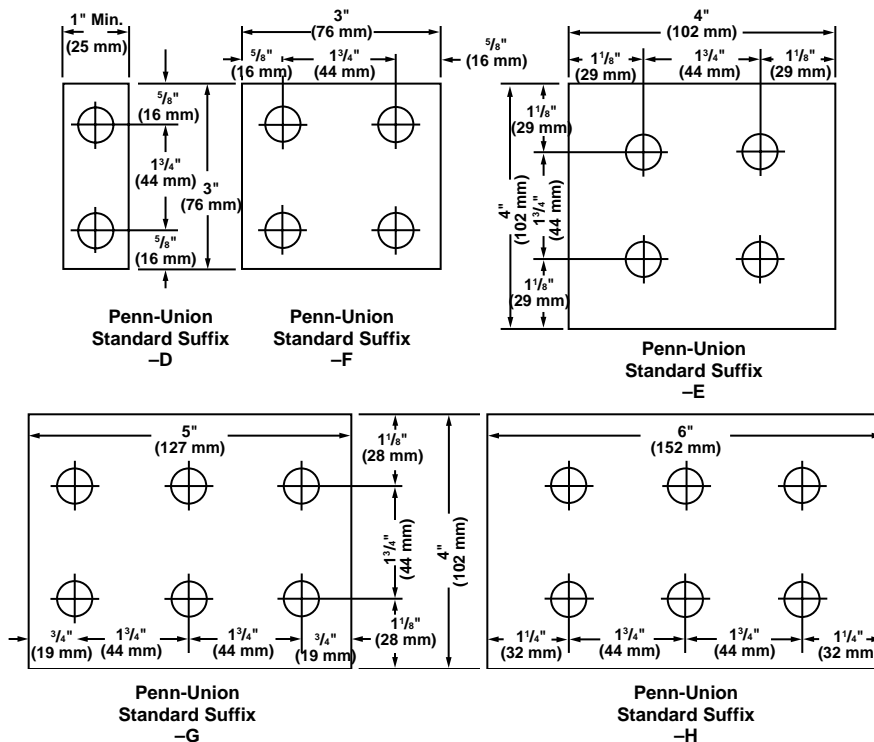
*Indoor ratings are calculated for a 30 °C rise above an ambient temperature of 40 °C install but unconfined air and a surface emissivity, e, equal to 0.35.

†Outdoor ratings are given for a wind velocity of 2 feet per second, an ambient air temperature of 40 °C, a conductor temperature of 70 °C (30 °C rise), and a surface emissivity, e, equal to 0.50. (NEMA CCI-1984)

ANSI-H35.2-1990 (For Dimensional Data)

NEMA STANDARD TANGS

These figures show the arrangements of $\frac{9}{16}$ " bolt holes which are standardized for electrical power connectors under NEMA Standard CC1.



SOLDERLESS CONNECTORS STUD SIZE AND CLEARANCE HOLE DIAMETER

| Stud Size | Stud Diameter | Clearance Hole Diameter |
|----------------|---------------|-------------------------|
| 0 | .060 | .091-.097 |
| 1 | .073 | .091-.097 |
| 2 | .086 | .091-.097 |
| 3 | .099 | .117-.123 |
| 4 | .112 | .117-.123 |
| 5 | .125 | .143-.149 |
| 6 | .138 | .143-.149 |
| 8 | .164 | .170-.176 |
| 10 | .190 | .195-.201 |
| 12 | .216 | $\frac{17}{64}$ |
| $\frac{1}{4}$ | .250 | $\frac{17}{64}$ |
| $\frac{5}{16}$ | .312 | $\frac{21}{64}$ |
| $\frac{3}{8}$ | .375 | $\frac{25}{64}$ |
| $\frac{1}{2}$ | .500 | $\frac{33}{64}$ |

FAX SHEET FOR FACTORY SPECIALS (No Catalog Numbers)

• Information Required at Factory.

• Conductor Type:

- Material (copper, aluminum, ACSR, flex weld, etc.) _____
- Size _____ AWG, KCMIL, MCM, MM² (circle one)
- Stranding (solid, strand, compact, etc.) _____
- Bare, Plated, Insulated _____

• Product Profile:

- Type: Compression, mechanical _____
- Pad mounting (Number holes, blank) _____
 - Pad mounting hole size and location _____
 - Plating (Bare, tin or silver and thickness) _____
 - Standards or listings required (UL, CSA, ANSI, etc.) _____
 - Special temperature requirements _____
 - Mounting hardware required size & material (Bronze, Aluminum, Steel, Stainless Steel) _____

• Flexible Connectors:

- Type: Braid, shunts, lamination, wire _____
- Circular mills, cross section, width, thickness _____
 - Ampacity _____
 - Mounting style (No. holes, style, etc.) _____
 - Mounting hole size and location _____
 - Plating (Braid, ends) bare or type _____
 - Straight or shapes _____
 - Insulated (Heat shrink) _____
 - Pad size, (Width & thickness) _____
 - Lamination (Type & size) _____

• Attach sketch, photo, sample, drawing (very helpful).

- Quantity initial order _____
Estimated annual quantity _____

CUSTOMER PROFILE:

- Company Name _____ SIC Code _____
Address _____
City _____ State _____ Zip _____
Your Name _____ Title _____
Fax Number _____ Telephone Number _____
Delivery Date Required _____

Please make as many copies as you need.

MAILING/FAX DIRECTIONS: Fax to 814-734-4946
Attn: Customer Service

Or mail to: Customer Service, Penn-Union Corp., 229 Waterford Street, Edinboro, PA 16412-2398

MILLIMETER/DECIMAL/FRACTION CONVERSION CHART

| Milli-meter | Decimal | Fraction (inches) | Milli-meter | Decimal | Fraction (inches) | Milli-meter | Decimal | Fraction (inches) | Milli-meter | Decimal | Fraction (inches) | Milli-meter | Decimal | Fraction (inches) |
|-------------|---------|-------------------|-------------|---------|-------------------|-------------|---------|-------------------|-------------|---------|-------------------|-------------|---------|-------------------|
| 0.1 | .0039 | | 5.159 | .2031 | 13/64 | 10.2 | .4016 | | 15.3 | .6024 | | 20.3 | .7992 | |
| 0.2 | .0079 | | 5.2 | .2047 | | 10.3 | .4055 | | 15.4 | .6063 | | 20.4 | .8031 | |
| 0.3 | .0118 | | 5.3 | .2087 | | 10.319 | .4063 | 13/32 | 15.478 | .6094 | 39/64 | 20.5 | .8071 | |
| 0.397 | .0156 | 1/64 | 5.4 | .2126 | | 10.4 | .4094 | | 15.5 | .6102 | | 20.6 | .8110 | |
| 0.4 | .0157 | | 5.5 | .2165 | | 10.5 | .4134 | | 15.6 | .6142 | | 20.638 | .8125 | 13/16 |
| 0.5 | .0197 | | 5.556 | .2188 | 7/32 | 10.6 | .4173 | | 15.7 | .6181 | | 20.7 | .8150 | |
| 0.6 | .0236 | | 5.6 | .2205 | | 10.7 | .4213 | | 15.8 | .6220 | | 20.8 | .8189 | |
| 0.7 | .0276 | | 5.7 | .2244 | | 10.716 | .4219 | 27/64 | 15.875 | .6250 | 5/8 | 20.9 | .8228 | |
| 0.794 | .0313 | 1/32 | 5.8 | .2283 | | 10.8 | .4252 | | 15.9 | .6260 | | 21.0 | .8268 | |
| 0.8 | .0315 | | 5.9 | .2323 | | 10.9 | .4291 | | 16.0 | .6299 | | 21.034 | .8281 | 53/64 |
| 0.9 | .0354 | | 5.953 | .2344 | 15/64 | 11.0 | .4331 | | 16.1 | .6339 | | 21.1 | .8307 | |
| 1.0 | .0394 | | 6.0 | .2362 | | 11.1 | .4370 | | 16.2 | .6378 | | 21.2 | .8346 | |
| 1.1 | .0433 | | 6.1 | .2402 | | 11.113 | .4375 | 7/16 | 16.272 | .6406 | 41/64 | 21.3 | .8386 | |
| 1.191 | .0469 | 3/64 | 6.2 | .2441 | | 11.2 | .4409 | | 16.3 | .6417 | | 21.4 | .8425 | |
| 1.2 | .0472 | | 6.3 | .2480 | | 11.3 | .4449 | | 16.4 | .6457 | | 21.431 | .8438 | 27/32 |
| 1.3 | .0512 | | 6.350 | .2500 | 1/4 | 11.4 | .4488 | | 16.5 | .6496 | | 21.5 | .8465 | |
| 1.4 | .0551 | | 6.4 | .2520 | | 11.5 | .4528 | | 16.6 | .6535 | | 21.6 | .8504 | |
| 1.5 | .0591 | | 6.5 | .2559 | | 11.509 | .4531 | 29/64 | 16.669 | .6563 | 21/32 | 21.7 | .8543 | |
| 1.588 | .0625 | 1/16 | 6.6 | .2598 | | 11.6 | .4567 | | 16.7 | .6575 | | 21.8 | .8583 | |
| 1.6 | .0630 | | 6.7 | .2638 | | 11.7 | .4606 | | 16.8 | .6614 | | 21.828 | .8594 | 55/64 |
| 1.7 | .0669 | | 6.747 | .2656 | 17/64 | 11.8 | .4646 | | 16.9 | .6654 | | 21.9 | .8622 | |
| 1.8 | .0709 | | 6.8 | .2677 | | 11.9 | .4685 | | 17.0 | .6693 | | 22.0 | .8661 | |
| 1.9 | .0748 | | 6.9 | .2717 | | 11.906 | .4688 | 15/32 | 17.066 | .6719 | 43/64 | 22.1 | .8701 | |
| 1.984 | .0781 | 5/64 | 7.0 | .2756 | | 12.0 | .4724 | | 17.1 | .6732 | | 22.2 | .8740 | |
| 2.0 | .0787 | | 7.1 | .2795 | | 12.1 | .4764 | | 17.2 | .6772 | | 22.225 | .8750 | 7/8 |
| 2.1 | .0827 | | 7.144 | .2813 | 9/32 | 12.2 | .4803 | | 17.3 | .6811 | | 22.3 | .8780 | |
| 2.2 | .0866 | | 7.2 | .2835 | | 12.3 | .4843 | | 17.4 | .6850 | | 22.4 | .8819 | |
| 2.3 | .0906 | | 7.3 | .2874 | | 12.303 | .4844 | 31/64 | 17.463 | .6875 | 11/16 | 22.5 | .8858 | |
| 2.381 | .0938 | 3/32 | 7.4 | .2913 | | 12.4 | .4882 | | 17.5 | .6890 | | 22.6 | .8898 | |
| 2.4 | .0945 | | 7.5 | .2953 | | 12.5 | .4921 | | 17.6 | .6929 | | 22.622 | .8906 | 57/64 |
| 2.5 | .0984 | | 7.541 | .2969 | 19/64 | 12.6 | .4961 | | 17.7 | .6968 | | 22.7 | .8937 | |
| 2.6 | .1024 | | 7.6 | .2992 | | 12.7 | .5000 | 1/2 | 17.8 | .7008 | | 22.8 | .8976 | |
| 2.7 | .1063 | | 7.7 | .3031 | | 12.8 | .5039 | | 17.859 | .7031 | 45/64 | 22.9 | .9016 | |
| 2.778 | .1094 | 7/64 | 7.8 | .3071 | | 12.9 | .5079 | | 17.9 | .7047 | | 23.0 | .9055 | |
| 2.8 | .1102 | | 7.9 | .3110 | | 13.0 | .5118 | | 18.0 | .7087 | | 23.019 | .9063 | 29/32 |
| 2.9 | .1142 | | 7.938 | .3125 | 5/16 | 13.097 | .5156 | 33/64 | 18.1 | .7126 | | 23.1 | .9094 | |
| 3.0 | .1181 | | 8.0 | .3150 | | 13.1 | .5197 | | 18.2 | .7165 | | 23.2 | .9134 | |
| 3.1 | .1220 | | 8.1 | .3189 | | 13.2 | .5197 | | 18.256 | .7188 | 23/32 | 23.3 | .9173 | |
| 3.175 | .1250 | 1/8 | 8.2 | .3228 | | 13.3 | .5236 | | 18.3 | .7205 | | 23.4 | .9213 | |
| 3.2 | .1260 | | 8.3 | .3268 | | 13.4 | .5276 | | 18.4 | .7244 | | 23.416 | .9219 | 59/64 |
| 3.3 | .1299 | | 8.334 | .3281 | 21/64 | 13.494 | .5313 | 17/32 | 18.5 | .7283 | | 23.5 | .9252 | |
| 3.4 | .1339 | | 8.4 | .3307 | | 13.5 | .5315 | | 18.6 | .7323 | | 23.6 | .9291 | |
| 3.5 | .1378 | | 8.5 | .3346 | | 13.6 | .5354 | | 18.653 | .7344 | 47/64 | 23.7 | .9331 | |
| 3.572 | .1406 | 9/64 | 8.6 | .3386 | | 13.7 | .5394 | | 18.7 | .7362 | | 23.8 | .9370 | |
| 3.6 | .1417 | | 8.7 | .3425 | | 13.8 | .5433 | | 18.8 | .7402 | | 23.813 | .9375 | 15/16 |
| 3.7 | .1457 | | 8.731 | .3438 | 11/32 | 13.891 | .5469 | 35/64 | 18.9 | .7441 | | 23.9 | .9409 | |
| 3.8 | .1496 | | 8.8 | .3465 | | 13.9 | .5472 | | 19.0 | .7480 | | 24.0 | .9449 | |
| 3.9 | .1535 | | 8.9 | .3504 | | 14.0 | .5512 | | 19.050 | .7500 | 3/4 | 24.1 | .9488 | |
| 3.969 | .1563 | 5/32 | 9.0 | .3543 | | 14.1 | .5551 | | 19.1 | .7520 | | 24.2 | .9528 | |
| 4.0 | .1575 | | 9.1 | .3583 | | 14.2 | .5591 | | 19.2 | .7559 | | 24.209 | .9531 | 61/64 |
| 4.1 | .1614 | | 9.128 | .3594 | 23/64 | 14.288 | .5625 | 9/16 | 19.3 | .7598 | | 24.3 | .9567 | |
| 4.2 | .1654 | | 9.2 | .3622 | | 14.3 | .5630 | | 19.4 | .7638 | | 24.4 | .9606 | |
| 4.3 | .1693 | | 9.3 | .3661 | | 14.4 | .5669 | | 19.447 | .7656 | 49/64 | 24.5 | .9646 | |
| 4.366 | .1719 | 11/64 | 9.4 | .3701 | | 14.5 | .5709 | | 19.5 | .7677 | | 24.6 | .9685 | |
| 4.4 | .1732 | | 9.5 | .3740 | | 14.6 | .5748 | | 19.6 | .7717 | | 24.606 | .9688 | 31/32 |
| 4.5 | .1772 | | 9.525 | .3750 | 3/8 | 14.684 | .5781 | 37/64 | 19.7 | .7756 | | 24.7 | .9724 | |
| 4.6 | .1811 | | 9.6 | .3780 | | 14.7 | .5787 | | 19.8 | .7795 | | 24.8 | .9764 | |
| 4.7 | .1850 | | 9.7 | .3819 | | 14.8 | .5827 | | 19.844 | .7813 | 25/32 | 24.9 | .9803 | |
| 4.763 | .1875 | 3/16 | 9.8 | .3858 | | 14.9 | .5866 | | 19.9 | .7835 | | 25.0 | .9843 | |
| 4.8 | .1890 | | 9.9 | .3898 | | 15.0 | .5906 | | 20.0 | .7874 | | 25.003 | .9844 | 63/64 |
| 4.9 | .1929 | | 9.922 | .3906 | 25/64 | 15.081 | .5938 | 19/32 | 20.1 | .7913 | | 25.1 | .9882 | |
| 5.0 | .1969 | | 10.0 | .3937 | | 15.1 | .5945 | | 20.2 | .7953 | | 25.2 | .9921 | |
| 5.1 | .2008 | | 10.1 | .3976 | | 15.2 | .5984 | | 20.241 | .7969 | 51/64 | 25.3 | .9961 | |
| | | | | | | | | | | | | 25.400 | 1.0000 | 1 |

NOTE: Penn-Union manufactures its products only to commercial standards and sells its products only under commercial terms & conditions.

AWG VS. METRIC WIRE SIZES

| Circ. Mils | Equivalent Circ. Mils | Awg. Size | Metric Wire Size mm ² | Stranding/ Wire Diameter Per Strand | | Approximate Overall Diameter | | Circ. Mils | Equivalent Circ. Mils | Awg. Size | Metric Wire Size mm ² | Stranding/ Wire Diameter Per Strand | | Approximate Overall Diameter | |
|------------|-----------------------|-----------|----------------------------------|-------------------------------------|---------|------------------------------|------|------------|-----------------------|-----------|----------------------------------|-------------------------------------|----------|------------------------------|------|
| | | | | in | mm | in | mm | | | | | in | mm | in | mm |
| - | 987 | - | 0.50 | 1/.032 | 1/.813 | .032 | 0.81 | 83690 | - | 1 | - | 19/.0664 | 19/1.69 | .332 | 8.43 |
| 1020 | - | 20 | - | 7/.0121 | 7/.307 | .036 | 0.91 | - | 98680 | - | 50 | 19/.073 | 19/1.85 | .365 | 9.27 |
| - | 1480 | - | 0.75 | 1/.039 | 1/.991 | .039 | 0.99 | 105600 | - | 1/0 | - | 19/.0745 | 19/1.89 | .373 | 9.46 |
| 1620 | - | 18 | - | 1/.0403 | 1/1.02 | .040 | 1.02 | 133100 | - | 2/0 | - | 19/.0837 | 19/2.13 | .419 | 10.6 |
| 1620 | - | 18 | - | 7/.0152 | 7/.386 | .046 | 1.16 | - | 138100 | - | 70 | 19/.086 | 19/2.18 | .430 | 10.9 |
| - | 1974 | - | 1.0 | 1/.045 | 1/1.14 | .045 | 1.14 | 167800 | - | 3/0 | - | 19/.094 | 19/2.39 | .470 | 11.9 |
| - | 1974 | - | 1.0 | 7/.017 | 7/.432 | .051 | 1.30 | 167800 | - | 3/0 | - | 37/.0673 | 37/1.71 | .471 | 12.0 |
| 2580 | - | 16 | - | 1/.0508 | 1/1.29 | .051 | 1.29 | - | 187500 | - | 95 | 19/.101 | 19/2.57 | .505 | 12.8 |
| 2580 | - | 16 | - | 7/.0192 | 7/.488 | .058 | 1.46 | - | 187500 | - | 95 | 37/.072 | 37/1.83 | .504 | 12.8 |
| - | 2960 | - | 1.5 | 1/.055 | 1/1.40 | .055 | 1.40 | 211600 | - | 4/0 | - | 19/.1055 | 19/2.68 | .528 | 13.4 |
| - | 2960 | - | 1.5 | 7/.021 | 7/5.33 | .063 | 1.60 | - | 237.8 MCM | - | 120 | 37/.081 | 37/2.06 | .567 | 14.4 |
| 4110 | - | 14 | - | 1/.0641 | 1/1.63 | .064 | 1.63 | 250 MCM | - | - | - | 37/.0822 | 37/2.09 | .575 | 14.6 |
| 4110 | - | 14 | - | 7/.0242 | 7/.615 | .073 | 1.84 | 300 MCM | - | - | 150 | 37/.090 | 37/2.29 | .630 | 16.0 |
| - | 4934 | - | 2.5 | 1/.071 | 1/1.80 | .071 | 1.80 | 350 MCM | - | - | - | 37/.0973 | 37/2.47 | .681 | 17.3 |
| - | 4934 | - | 2.5 | 7/.027 | 7/.686 | .081 | 2.06 | - | 365.1 MCM | - | 185 | 37/.100 | 37/2.54 | .700 | 17.8 |
| 6530 | - | 12 | - | 1/.0808 | 1/2.05 | .081 | 2.05 | 400 MCM | - | - | - | 37/.104 | 37/2.64 | .728 | 18.5 |
| 6530 | - | 12 | - | 7/.0305 | 7/7.75 | .092 | 2.32 | - | 473.6 MCM | - | 240 | 37/.114 | 37/2.90 | .798 | 20.3 |
| - | 7894 | - | 4 | 1/.089 | 1/2.26 | .089 | 2.26 | - | 473.6 MCM | - | 240 | 61/.089 | 61/2.26 | .801 | 20.3 |
| - | 7894 | - | 4 | 7/.034 | 7/.864 | .102 | 2.59 | 500 MCM | - | - | - | 37/.1162 | 37/2.95 | .813 | 20.7 |
| - | - | - | - | - | - | - | - | 500 MCM | - | - | - | 61/.0905 | 61/2.30 | .814 | 20.7 |
| 10380 | - | 10 | - | 1/.1019 | 1/2.59 | .102 | 2.59 | - | 592.1 MCM | - | 300 | 61/.099 | 61/2.51 | .891 | 22.6 |
| 10380 | - | 10 | - | 7/.0385 | 7/9.78 | .116 | 2.93 | - | - | - | - | 61/.0992 | 61/2.52 | .893 | 22.7 |
| - | 11840 | - | 6 | 1/.109 | 1/2.77 | .109 | 2.77 | 600 MCM | - | - | - | 61/.1071 | 61/2.72 | .964 | 24.5 |
| - | 11840 | - | 6 | 7/.042 | 7/1.07 | .126 | 3.21 | 700 MCM | - | - | - | 61/.1109 | 61/2.82 | .998 | 25.4 |
| 13090 | - | 9 | - | 1/.1144 | 1/2.91 | .1144 | 2.91 | 750 MCM | - | - | - | 91/.0908 | 91/2.31 | .999 | 25.4 |
| 13090 | - | 9 | - | 7/.0432 | 7/1.10 | .130 | 3.30 | 750 MCM | - | - | - | 61/.114 | 61/2.90 | 1.026 | 26.1 |
| 16510 | - | 8 | - | 1/.1285 | 1/3.26 | .128 | 3.26 | - | 789.4 MCM | - | 400 | 61/.1145 | 61/2.91 | 1.031 | 26.2 |
| 16510 | - | 8 | - | 7/.0486 | 7/1.23 | .146 | 3.70 | 800 MCM | - | - | - | 91/.0938 | 91/2.38 | 1.032 | 26.2 |
| - | 19740 | - | 10 | 1/.141 | 1/3.58 | .141 | 3.58 | 800 MCM | - | - | - | 61/.1280 | 61/3.25 | 1.152 | 29.3 |
| - | 19740 | - | 10 | 7/.054 | 7/1.37 | .162 | 4.12 | 1000 MCM | 986.8 MCM | - | 500 | 91/.1048 | 91/2.66 | 1.153 | 29.3 |
| 20820 | - | 7 | - | 1/.1443 | 1/3.67 | .144 | 3.67 | 1000 MCM | - | - | - | 91/.117 | 91/2.97 | 1.287 | 32.7 |
| 20820 | - | 7 | - | 7/.0545 | 7/1.38 | .164 | 4.15 | - | 1233.7 MCM | - | 625 | 91/.1172 | 91/2.98 | 1.289 | 32.7 |
| 26240 | - | 6 | - | 1/.162 | 1/4.11 | .162 | 4.11 | 1250 MCM | - | - | - | 127/.0992 | 127/2.52 | 1.290 | 32.8 |
| 26240 | - | 6 | - | 7/.0612 | 7/1.55 | .184 | 4.66 | 1250 MCM | - | - | - | 91/.1284 | 91/3.26 | 1.412 | 35.9 |
| - | 31580 | - | 16 | 7/.068 | 7/1.73 | .204 | 5.18 | 1500 MCM | - | - | - | 127/.1087 | 127/2.76 | 1.413 | 35.9 |
| 33090 | - | 5 | - | 7/.0688 | 7/1.75 | .206 | 5.24 | 1500 MCM | - | - | - | 91/.132 | 91/3.35 | 1.452 | 36.9 |
| 41740 | - | 4 | - | 7/.0772 | 7/1.96 | .232 | 5.88 | - | 1578.8 MCM | - | 800 | 91/.147 | 91/3.73 | 1.617 | 41.1 |
| - | 49340 | - | 25 | 7/.085 | 7/2.16 | .255 | 6.48 | - | 1973.5 MCM | - | 1000 | 127/.1255 | 127/3.19 | 1.632 | 41.5 |
| - | 49340 | - | 25 | 19/.052 | 19/1.32 | .260 | 6.60 | 2000 MCM | - | - | - | 169/.1088 | 169/2.76 | 1.632 | 41.5 |
| 52620 | - | 3 | - | 7/.0867 | 7/2.20 | .260 | 6.61 | 2000 MCM | - | - | - | - | - | - | - |
| 66360 | - | 2 | - | 7/.0974 | 7/2.47 | .292 | 7.42 | - | - | - | - | - | - | - | - |
| - | 69070 | - | 35 | 7/.100 | 7/2.54 | .300 | 7.62 | - | - | - | - | - | - | - | - |
| - | 69070 | - | 35 | 19/.061 | 19/1.55 | .305 | 7.75 | - | - | - | - | - | - | - | - |

DIESEL LOCOMOTIVE AND CAR WIRING CABLE

| Conductor Stranding | Approx. Size Awg | Circular Mil Area | Conductor Diameter Inches |
|---------------------|------------------|-------------------|---------------------------|
| 19/.0117 | 16 | 2601 | .060 |
| 19/27 | 14 | 3831 | .070 |
| 19/25 | 12 | 6088 | .090 |
| 27/24 | 10 | 10910 | .123 |
| 37/24 | 8 | 14950 | .140 |
| 61/24 | 6 | 24640 | .180 |
| 91/24 | 5 | 36760 | .220 |
| 105/24 | 4 | 42420 | .240 |
| 125/24 | 3 | 50500 | .260 |
| 150/24 | 2 | 60600 | .325 |
| 225/24 | 1 | 90900 | .390 |
| 275/24 | 1/0 | 111100 | .420 |
| 325/24 | 2/0 | 131300 | .460 |
| 450/24 | 3/0 | 181800 | .565 |
| 550/24 | 4/0 | 222200 | .590 |
| 650/24 | | 262600 | .660 |
| 775/24 | | 313100 | .740 |
| 925/24 | | 373700 | .790 |
| 1100/24 | | 444400 | .870 |
| 1325/24 | | 535300 | .940 |
| 1600/24 | | 646400 | 1.025 |
| 1925/24 | | 777700 | 1.120 |
| 2300/24 | | 929200 | 1.230 |
| 2750/24 | | 1111000 | 1.370 |