

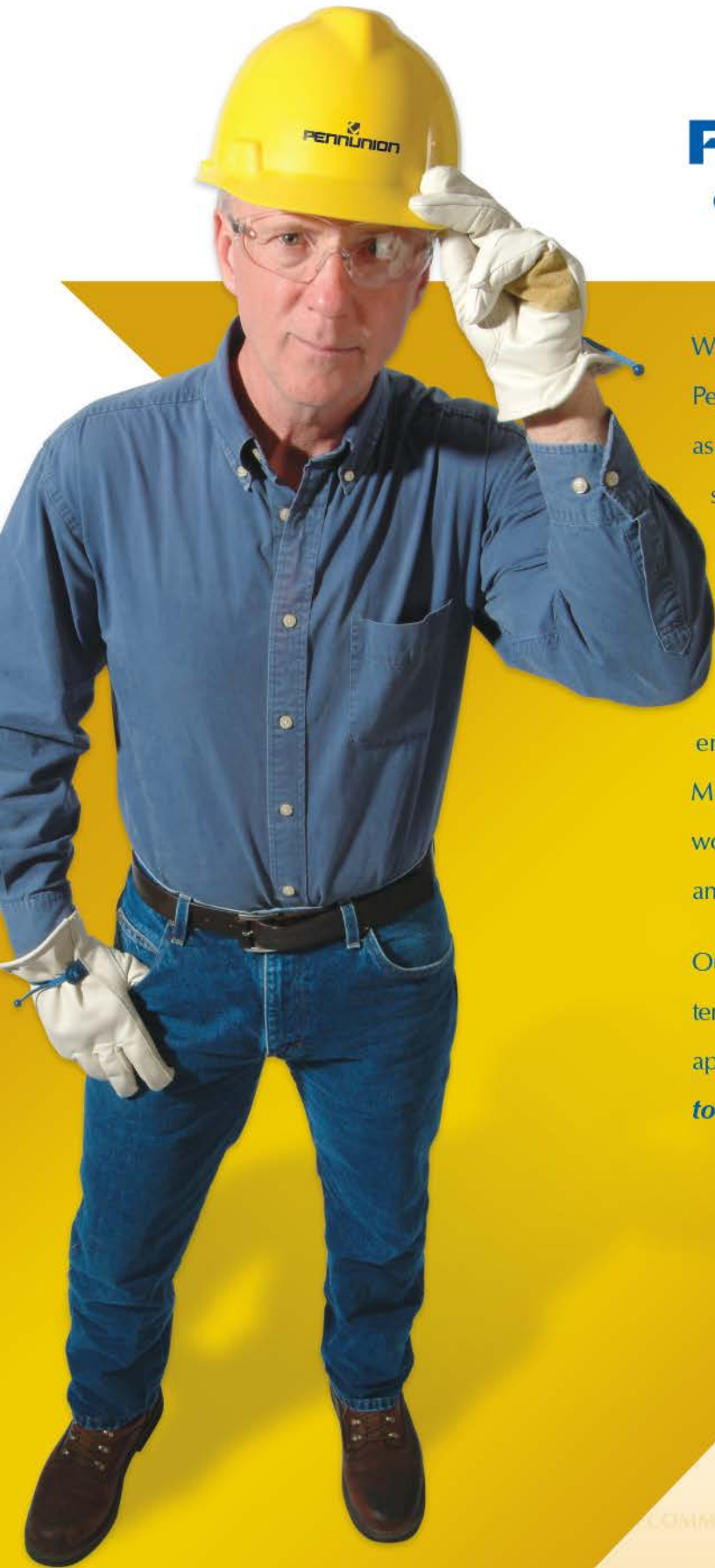


2017 MASTER CATALOG

Electrical Connectors, Tools & Accessories




PENNUION™
CONNECTING YOUR TOMORROW.™



CONNECTING YOUR TOMORROW.™

With a history dating back to 1928, Penn-Union has an excellent reputation as a U.S. designer, manufacturer and supplier of quality electrical connectors and related products. Penn-Union services the distribution, construction, utilities, power transmission, industrial, telecom, renewable energy, aerospace, rail systems and MRO markets through a worldwide network of manufacturing representatives and wholesale electrical distributors.

Our products are relied upon to consistently perform in the most demanding applications, *meeting the needs of today and tomorrow.*



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Contact factory for any critical dimensions.

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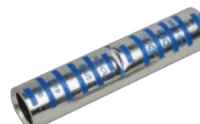
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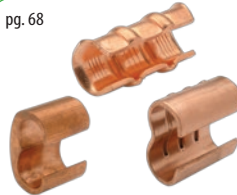
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AVAILABLE**

Cual-Aid #12C

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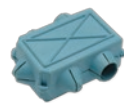
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PRODUCT**

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FLEXIBLE COPPER BRAID

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**ALSO
AVAILABLE**

**Custom Copper Braids
& Copper Laminations**

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Type PIK 5/8" OD

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Type PIK .840" OD

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Type PSK 5/8" OD

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Type PS .840" OD

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Type PNK 5/8" OD

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Types KKBO, KKBD, and KKBN

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Types FKLA, FSLA, and FULA

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PRODUCT**

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**NEW
PRODUCT**

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**NEW
PRODUCT**

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Type DBTBF

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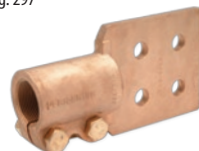
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Type UTS

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Type CSR

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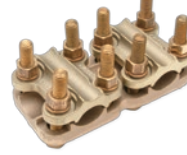
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Types ABRR and ABRRE

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Type BSR2B

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Type BA

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Type BDR

Notes



CONNECTING YOUR TOMORROW.™

Construction

Utilities

Power Transmission

Industrial

Telecom

Renewable Energy

Aerospace

Rail Systems

MRO



COMPRESSION CONNECTORS


PENNUION[™]
CONNECTING YOUR TOMORROW.[™]

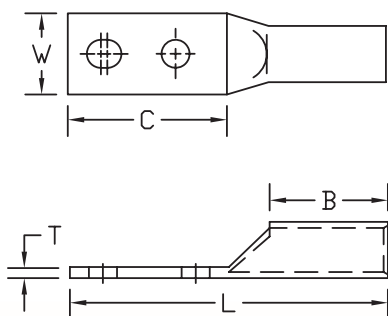
Long Barrel - Two Hole Slotted Tongue with Inspection Window

Type BBLZ-D-ST

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- **Slotted pad hole configuration accommodates range of hardware spacings and assures maximum secureness**
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



Versa-Crimp® (as used throughout this publication) is a registered trademark of HUBBELL Power Systems, Inc.



BBLZ-D-ST

See table for dimensions and installation tooling information

BBLZ-D-ST DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH
			STUD HOLE SPACING RANGE	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	
BBLZ-8D-58-1ST14	8 AWG	1/4"	5/8" to 1"	.41	1.69	.08	.94	2.88	Red	TDM-250 or TDM-500	6	T-49	1-1/16"
BBLZ-8D-58-1ST38		3/8"	5/8" to 1"	.60	1.75	.06	.75	2.63					7/8"
BBLZ-6D-58-1ST14	6 AWG	1/4"	5/8" to 1"	.41	1.61	.09	1.13	2.96	Blue	TDM-250 or TDM-500	7	T-7	1-1/4"
BBLZ-6D-58-1ST38		3/8"	5/8" to 1"	.60	1.74	.06	1.00	2.87					1-1/8"
BBLZ-6D-1-175ST12	5 AWG	1/2"	1" to 1-3/4"	.70	2.77	.09	1.00	3.92	Blue	TDM-250 or TDM-500	7	T-7	1-1/4"
BBLZ-5D-58-1ST14		1/4"	5/8" to 1"	.44	1.61	.08	1.13	2.96					
BBLZ-5D-58-1ST38	4 AWG	3/8"	5/8" to 1"	.61	1.83	.07	1.13	3.21	Gray	TDM-250 or TDM-500	8	T-8	1-1/4"
BBLZ-4D-58-1ST14		1/4"	5/8" to 1"	.50	1.61	.09	1.13	2.96					
BBLZ-4D-58-1ST38	3 AWG	3/8"	5/8" to 1"	.61	1.81	.08	1.13	3.21	White	TDM-250 or TDM-500	9	T-9	1-1/4"
BBLZ-4D-1-175ST12		1/2"	1" to 1-3/4"	.92	3.00	.10	1.13	4.38					
BBLZ-3D-58-1ST14	2 AWG	1/4"	5/8" to 1"	.65	1.61	.20	1.13	2.96	Brown	TDM-250 or TDM-500	10	T-10	1-3/8"
BBLZ-3D-58-1ST38		3/8"	5/8" to 1"	.65	1.83	.20	1.13	3.21					
BBLZ-2D-58-1ST14	1 AWG	1/4"	5/8" to 1"	.59	1.61	.11	1.25	3.11	Green	TDM-250 or TDM-500	11	T-11	1-1/2"
BBLZ-2D-58-1ST38		3/8"	5/8" to 1"	.59	1.83	.11	1.25	3.36					
BBLZ-2D-1-175ST12	1/0 AWG	1/2"	1" to 1-3/4"	.81	3.00	.10	1.25	4.53	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"
BBLZ-1D-58-1ST14		1/4"	5/8" to 1"	.67	1.83	.10	1.38	3.55					
BBLZ-1D-58-1ST38	2/0 AWG	3/8"	5/8" to 1"	.67	1.83	.10	1.38	3.55	Black	TDM-250 or TDM-500	13	T-13	1-5/8"
BBLZ-1D-1-175ST12		1/2"	1" to 1-3/4"	.70	2.77	.09	1.20	4.12					
BBLZ-1/0D-58-1ST14	3/0 AWG	1/4"	5/8" to 1"	.74	1.83	.11	1.38	3.55	Orange	TDM-250 or TDM-500	14	T-14	1-5/8"
BBLZ-1/0D-1-175ST38		3/8"	1" to 1-3/4"	.74	2.58	.11	1.38	4.30					
BBLZ-1/0D-1-175ST12	4/0 AWG	1/2"	1" to 1-3/4"	.81	3.00	.10	1.38	4.63	Purple	TDM-250 or TDM-500	15	T-15	1-3/4"
BBLZ-2/0D-58-1ST14		1/4"	5/8" to 1"	.82	1.61	.12	1.50	3.42					
BBLZ-2/0D-1-175ST38	250 kcmil	3/8"	1" to 1-3/4"	.82	2.58	.12	1.50	4.39	Yellow	TDM-250 or TDM-500	16	T-16	1-3/4"
BBLZ-2/0D-1-175ST12		1/2"	1" to 1-3/4"	.82	3.00	.12	1.50	4.84					
BBLZ-3/0D-58-1ST14	300 kcmil	1/4"	5/8" to 1"	.89	1.61	.13	1.50	3.49	White	TDM-500	17	T-17	2-1/8"
BBLZ-3/0D-1-175ST38		3/8"	1" to 1-3/4"	.89	2.58	.13	1.50	4.46					
BBLZ-3/0D-1-175ST12	350 kcmil	1/2"	1" to 1-3/4"	.89	3.00	.13	1.50	4.91	Red	TDM-500	18	T-18	2-1/8"
BBLZ-4/0D-58-1ST14		1/4"	5/8" to 1"	1.00	1.61	.14	1.63	3.68					
BBLZ-4/0D-1-175ST38	400 kcmil	3/8"	1" to 1-3/4"	1.00	2.58	.14	1.63	4.68	Blue	TDM-500	19	T-19	2-1/4"
BBLZ-4/0D-1-175ST12		1/2"	1" to 1-3/4"	1.00	3.00	.14	1.63	5.10					
BBLZ-025D-58-1ST14	500 kcmil	1/4"	5/8" to 1"	1.09	1.61	.16	1.63	3.80	Brown	TDM-500	20	T-20	2-3/8"
BBLZ-025D-1-175ST38		3/8"	1" to 1-3/4"	1.09	2.58	.16	1.63	4.77					
BBLZ-025D-1-175ST12	600 kcmil	1/2"	1" to 1-3/4"	1.09	3.00	.16	1.63	5.13	Green	TDM-500	22	T-22	2-13/16"
BBLZ-030D-58-1ST14		1/4"	5/8" to 1"	1.19	1.61	.16	2.00	4.17					
BBLZ-030D-1-175ST38	650 kcmil	3/8"	1" to 1-3/4"	1.19	2.58	.16	2.00	5.14	Pink	TDM-500	300	T-300	2-15/16"
BBLZ-030D-1-175ST12		1/2"	1" to 1-3/4"	1.19	3.00	.16	2.00	5.59					
BBLZ-035D-58-1ST14	750 kcmil	1/4"	5/8" to 1"	1.28	1.61	.17	2.00	4.24	Black	TDM-500	24	T-24	3"
BBLZ-035D-1-175ST38		3/8"	1" to 1-3/4"	1.28	2.58	.17	2.00	5.21					
BBLZ-035D-1-175ST12	800 kcmil	1/2"	1" to 1-3/4"	1.28	3.00	.17	2.00	5.66	Orange	TDM-500	25	T-25P	3-1/16"
BBLZ-040D-58-1ST14		1/4"	5/8" to 1"	1.39	1.61	.19	2.13	4.37					
BBLZ-040D-1-175ST38	1000 kcmil	3/8"	1" to 1-3/4"	1.39	2.58	.19	2.13	5.34	White	TDM-500	27	T-27P	3-1/8"
BBLZ-040D-1-175ST12		1/2"	1" to 1-3/4"	1.39	3.00	.19	2.13	5.79					
BBLZ-050D-58-1ST14	1500 kcmil	1/4"	5/8" to 1"	1.53	1.61	.21	2.25	4.61	Green	TDM-500	31	T-31P	3-5/16"
BBLZ-050D-1-175ST38		3/8"	1" to 1-3/4"	1.53	2.58	.21	2.25	5.58					
BBLZ-050D-1-175ST12	2000 kcmil	1/2"	1" to 1-3/4"	1.53	3.00	.21	2.25	6.03	Brown	TDM-500	34	-	3-9/16"
BBLZ-060D-1-175ST38		3/8"	1" to 1-3/4"	1.72	2.58	.27	2.69	6.11					
BBLZ-060D-1-175ST12	1500 kcmil	1/2"	1" to 1-3/4"	1.72	3.00	.27	2.69	6.56	Pink	TDM-500	300	T-300	2-15/16"
BBLZ-065D-1-175ST38		3/8"	1" to 1-3/4"	1.78	2.58	.27	2.81	6.23					
BBLZ-065D-1-175ST12	750 kcmil	1/2"	1" to 1-3/4"	1.78	3.00	.27	2.81	6.68	Black	TDM-500	24	T-24	3"
BBLZ-075D-1-175ST38		3/8"	1" to 1-3/4"	1.91	2.58	.27	2.88	6.40					
BBLZ-075D-1-175ST12	800 kcmil	1/2"	1" to 1-3/4"	1.91	3.00	.27	2.88	6.85	Orange	TDM-500	25	T-25P	3-1/16"
BBLZ-080D-1-175ST12		1/2"	1" to 1-3/4"	1.97	3.00	.25	2.94	7.00					
BBLZ-100D-1-175ST38	1000 kcmil	3/8"	1" to 1-3/4"	2.17	2.58	.33	3.00	6.71	White	TDM-500	27	T-27P	3-1/8"
BBLZ-100D-1-175ST12		1/2"	1" to 1-3/4"	2.17	3.00	.33	3.00	7.16					
BBLZ-150D-1-175ST12	1500 kcmil	1/2"	1" to 1-3/4"	2.69	3.00	.39	3.19	7.44	Green	TDM-500	31	T-31P	3-5/16"
BBLZ-200D-1-175ST12		1/2"	1" to 1-3/4"	3.08	3.00	.47	3.44	7.78					

• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

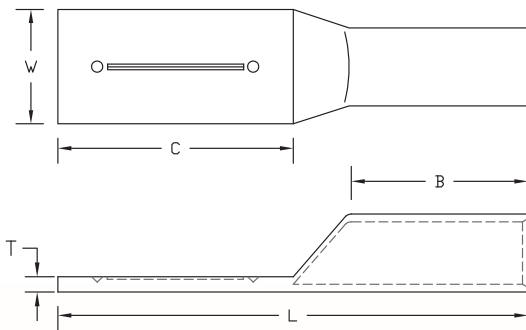
- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

COPPER COMPRESSION LUGS

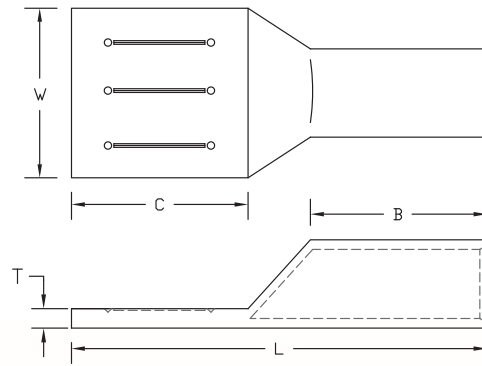
Long Barrel - Blank Tongue with Closed Transition

Types BBLU-DNU, BBLU-FNU

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Closed transition protects end of cable from environmental conditions
- **Blank / Undrilled tongues allow user to select custom hole sizes and spacings while maintaining UL listing and CSA certification**
- Scored line locates center of tongue and prevents drill from “walking”
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLU-DNU



BBLU-FNU

See table for dimensions and installation tooling information

BBLU-DNU, BBLU-FNU DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	MIN. BOLT HOLE*	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING			WIRE STRIP LENGTH	
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL		PENN-UNION DIE CATALOG NO.
BBLU-8DNU	8 AWG	#10	.83	3.00	.12	.94	4.19	Red	TDM-250 or TDM-500	6	T-49	1-1/16"
BBLU-6DNU	6 AWG	#10	.83	3.00	.12	1.13	4.35	Blue		7	T-7	1-1/4"
BBLU-4DNU	4 AWG	#10	.92	3.00	.10	1.13	4.38	Gray		8	T-8	1-1/4"
BBLU-3DNU	3 AWG	1/4"	.92	3.00	.12	1.13	4.35	White		9	T-9	1-1/4"
BBLU-2DNU	2 AWG	1/4"	.81	3.00	.10	1.25	4.53	Brown		10	T-10	1-5/16"
BBLU-1DNU+Δ	1 AWG	1/4"	.70	2.77	.09	1.20	4.12	Green	-	Y644HS	-	1-5/16"
BBLU-1/0DNU	1/0 AWG	1/4"	.81	3.00	.10	1.38	4.63	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"
BBLU-2/0DNU	2/0 AWG	1/4"	.82	3.00	.12	1.50	4.84	Black		13	T-13	1-5/8"
BBLU-3/0DNU	3/0 AWG	1/4"	.89	3.00	.13	1.50	4.91	Orange		14	T-14	1-5/8"
BBLU-4/0DNU	4/0 AWG	1/4"	1.00	3.00	.14	1.63	5.10	Purple		15	T-15	1-3/4"
BBLU-025DNU	250 kcmil	1/4"	1.09	3.00	.16	1.63	5.13	Yellow		16	T-16	1-3/4"
BBLU-030DNU	300 kcmil	1/4"	1.19	3.00	.16	2.00	5.59	White	TDM-500	17	T-17	2-1/8"
BBLU-035DNU	350 kcmil	1/4"	1.28	3.00	.17	2.00	5.66	Red		18	T-18	2-1/8"
BBLU-040DNU	400 kcmil	3/8"	1.39	3.00	.19	2.13	5.79	Blue		19	T-19	2-1/4"
BBLU-050DNU	500 kcmil	3/8"	1.53	3.00	.21	2.25	6.03	Brown		20	T-20	2-3/8"
BBLU-060DNU	600 kcmil	3/8"	1.72	3.00	.27	2.69	6.56	Green		22	T-22	2-13/16"
BBLU-065DNU	650 kcmil	3/8"	1.78	3.00	.27	2.81	6.68	Pink	Hatched	300	T-300	2-15/16"
BBLU-075DNU	750 kcmil	3/8"	1.91	3.00	.27	2.88	6.85	Black		24	T-24	3"
BBLU-080DNU	800 kcmil	3/8"	1.97	3.00	.25	2.94	7.00	Orange		25	T-25P	3-1/16"
BBLU-100DNU	1000 kcmil	3/8"	2.17	3.00	.33	3.00	7.16	White		27	T-27P	3-1/8"
BBLU-150-DNU	1500 kcmil	3/8"	2.69	3.00	.39	3.19	7.44	Green		31	T-31P	3-5/16"
BBLU-200DNU	2000 kcmil	3/8"	3.08	3.00	.47	3.44	7.78	Brown		34	-	3-9/16"
BBLU-100FNU+	1000 kcmil	3/8"	2.88	3.00	.33	3.00	7.06	White		27	T-27P	3-1/8"
BBLU-125FNU+	1250 kcmil	3/8"	3.00	3.00	.30	3.19	7.44	Yellow		29	-	3-5/16"
BBLU-150FNU+	1500 kcmil	3/8"	3.00	3.00	.39	3.06	7.41	Green		31	T-31P	3-3/16"
BBLU-175FNU+	1750 kcmil	3/8"	2.91	3.00	.39	3.09	7.88	Gray		33	-	3-1/4"
BBLU-200FNU+	2000 kcmil	3/8"	3.08	3.00	.47	3.44	7.75	Brown		34	-	3-9/16"

* Minimum bolt hole size must be maintained for UL & CSA

Δ Connector only UL listed with Burndy Y644HS crimp tool, not listed for grounding & bonding applications

+ Not CSA certified

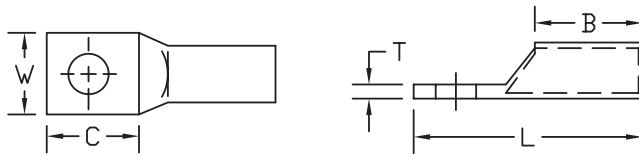
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

COPPER COMPRESSION LUGS

Standard Barrel - One Hole Tongue with Inspection Window Type BLU-S

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BLU-S

BLU-S DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING				WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	
BLU-8S14	8 AWG	#10	.37	.50	.08	.41	1.09	Red	TDM-250 or TDM-500	6	T-49	1/2"
BLU-8S15		1/4"	.37	.56	.08	.41	1.14					
BLU-8S16A		5/16"	.60	.64	.07	.57	1.46					
BLU-8S17A		3/8"	.60	.64	.07	.58	1.52					
BLU-8S18A		1/2"	.70	1.00	.09	.57	1.72					
BLU-6S	6 AWG	#10	.41	.53	.09	.81	1.51	Blue	TDM-250 or TDM-500	7	T-7	15/16"
BLU-6S1		1/4"	.41	.69	.09	.81	1.67					
BLU-6S2		5/16"	.45	.75	.07	.82	1.78					
BLU-6S8		3/8"	.60	.88	.06	.81	1.97					
BLU-6S9+		1/2"	.70	.94	.08	.75	1.88					
BLU-5S	5 AWG	#10	.43	.56	.08	.81	1.61	Blue	TDM-250 or TDM-500	7	T-7	15/16"
BLU-5S1		1/4"	.43	.69	.08	.81	1.73					
BLU-5S2		5/16"	.61	.72	.06	.81	1.77					
BLU-5S3		3/8"	.61	.88	.06	.81	1.92					
BLU-4S	4 AWG	#10	.48	.56	.09	.81	1.61	Gray	TDM-250 or TDM-500	8	T-8	15/16"
BLU-4S1		1/4"	.48	.69	.09	.81	1.67					
BLU-4S10		5/16"	.48	.72	.09	.81	1.76					
BLU-4S2		3/8"	.60	.88	.08	.81	1.97					
BLU-4S4 +		1/2"	1.12	1.12	.13	.83	2.22					
BLU-3S	3 AWG	#10	.53	.56	.09	.88	1.67	White	TDM-250 or TDM-500	9	T-9	1"
BLU-3S1		1/4"	.53	.69	.09	.88	1.80					
BLU-3S2		5/16"	.53	.75	.09	.88	1.86					
BLU-3S3		3/8"	.59	.88	.08	.88	1.98					

BLU-S DIMENSIONS & INSTALLATION TOOLING INFORMATION (Continued)

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING				WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	
BLU-2S15	2 AWG	#10	.59	.69	.11	.88	1.73	Brown	TDM-250 or TDM-500	10	T-10	1"
BLU-2S		1/4"	.59	.69	.11	.88	1.73					
BLU-2S1		5/16"	.59	.75	.11	.88	1.86					
BLU-2S2		3/8"	.59	.87	.11	.88	1.98					
BLU-2S10		1/2"	.82	1.13	.10	.88	2.25					
BLU-1S9	1 AWG	1/4"	.67	.56	.11	.62	1.42	Green	TDM-250 or TDM-500	11	T-11	3/4"
BLU-1S		5/16"	.67	.75	.11	.88	1.86					1"
BLU-1S1		3/8"	.67	.87	.11	.94	2.05					1-1/16"
BLU-1S4A		1/2"	.70	1.06	.09	.82	2.03					-
BLU-1/0S19	1/0 AWG	1/4"	.73	.87	.12	.87	2.05	Pink	TDM-250 or TDM-500	12	T-12	1"
BLU-1/0S		5/16"	.73	.87	.12	.88	2.05					
BLU-1/0S1		3/8"	.73	.87	.12	.88	2.05					
BLU-1/0S20		1/2"	.73	1.06	.12	.87	2.25					
BLU-2/0S20	2/0 AWG	1/4"	.81	.81	.12	.94	2.06	Black	TDM-250 or TDM-500	13	T-13	1-1/16"
BLU-2/0S21		5/16"	.81	.81	.12	.94	2.06					
BLU-2/0S		3/8"	.81	.87	.12	.94	2.11					
BLU-2/0S4		1/2"	.81	1.12	.12	.94	2.37					
BLU-3/0S14	3/0 AWG	1/4"	.89	.81	.12	.75	1.94	Orange	TDM-250 or TDM-500	14	T-14	1-1/8"
BLU-3/0S15		5/16"	.89	.81	.12	.75	1.94					
BLU-3/0S		3/8"	.89	.87	.12	1.00	2.25					
BLU-3/0S1		1/2"	.89	1.12	.12	1.00	2.50					
BLU-4/0S19	4/0 AWG	1/4"	1.00	.78	.14	1.00	2.22	Purple	TDM-250 or TDM-500	15	T-15	1-1/8"
BLU-4/0S25		5/16"	1.00	.78	.14	1.00	2.22					
BLU-4/0S		3/8"	1.00	.87	.14	1.00	2.31					
BLU-4/0S1		1/2"	1.00	1.09	.14	1.00	2.50					
BLU-02S54	250 kcmil	1/4"	1.09	.78	.15	1.06	2.34	Yellow	TDM-250 or TDM-500	16	T-16	1-3/16"
BLU-02S55		5/16"	1.09	.78	.15	1.06	2.34					
BLU-02S52		3/8"	1.09	1.13	.15	1.06	2.69					
BLU-02S5		1/2"	1.09	1.13	.15	1.06	2.69					
BLU-030S6	300 kcmil	5/16"	1.19	.78	.16	1.06	2.41	White	TDM-500	17	T-17	1-3/16"
BLU-030S7		3/8"	1.19	1.09	.16	1.06	2.75					
BLU-030S		1/2"	1.19	1.09	.16	1.06	2.75					
BLU-030S8		5/8"	1.19	1.69	.16	1.06	3.31					
BLU-03S51	350 kcmil	3/8"	1.28	.88	.17	1.13	2.63	Red	TDM-500	18	T-18	1-1/4"
BLU-03S5		1/2"	1.28	1.16	.17	1.13	2.91					
BLU-03S53		5/8"	1.28	1.41	.17	1.13	3.16					
BLU-040S4	400 kcmil	1/2"	1.39	1.19	.19	1.19	3.06	Blue	TDM-500	19	T-19	1-5/16"
BLU-040S		5/8"	1.39	1.44	.19	1.19	3.31					
BLU-04S51	450 kcmil	1/2"	1.45	1.19	.22	1.19	3.06	Blue	TDM-500	19	T-19	1-5/16"
BLU-04S5		5/8"	1.45	1.44	.22	1.18	3.31					
BLU-050S2	500 kcmil	1/2"	1.53	1.13	.21	1.38	3.28	Brown	TDM-500	20	T-20	1-1/2"
BLU-050S		5/8"	1.53	1.44	.21	1.38	3.63					
BLU-060S	600 kcmil	5/8"	1.72	1.75	.27	1.38	3.97	Green	TDM-500	22	T-22	1-1/2"
BLU-060S1		1/2"	1.72	1.75	.27	1.38	3.97					
BLU-06S54	650 kcmil	5/8"	1.78	1.75	.27	1.38	3.97	Pink	TDM-500	300	T-300	1-1/2"
BLU-06S55		1/2"	1.78	1.75	.27	1.38	3.97					
BLU-07S5	750 kcmil	5/8"	1.91	1.75	.27	1.63	4.31	Black	TDM-500	24	T-24	1-3/4"
BLU-080S	800 kcmil	5/8"	1.96	1.88	.25	1.63	4.53	Orange	TDM-500	25	T-25P	1-3/4"
BLU-100S	1000 kcmil	5/8"	2.17	1.75	.33	1.88	4.75	White	TDM-500	27	T-27P	2"
BLU-100S4		3/4"	2.17	1.88	.33	1.88	4.88					
BLU-150S	1500 kcmil	3/4"	2.69	2.19	.39	2.00	5.47	Green	TDM-500	31	T-31P	2-1/8"
BLU-200S	2000 kcmil	3/4"	3.07	2.31	.46	2.25	5.94	Brown	TDM-500	34	-	2-3/8"

Δ cULus listed

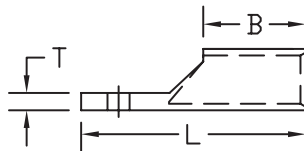
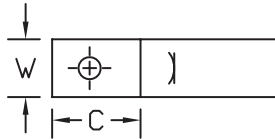
+ Not CSA certified

• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Standard Barrel - One Hole Narrow Tongue with Inspection Window Type BLU-S-NT


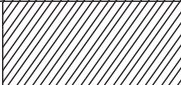

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- **Narrow tongue design for limited space applications**
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BLU-S-NT

See table for dimensions and installation tooling information

BLU-S-NT DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING				WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BLU-856-NT	8 AWG	6	.30	.50	.10	.41	1.09	Red	TDM-250 or TDM-500	6	T-49	1/2"
BLU-858-NT		8	.30	.50	.10	.41	1.09					
BLU-656-NT	6 AWG	6	.31	.50	.12	.81	1.51	Blue	TDM-250 or TDM-500	7	T-7	15/16"
BLU-45-NT	4 AWG	#10	.40	.56	.11	.81	1.61	Gray	TDM-250 or TDM-500	8	T-8	15/16"
BLU-451-NT		1/4"	.40	.69	.11	.81	1.67					
BLU-351-NT	3 AWG	1/4"	.49	.69	.10	.88	1.80	White	TDM-250 or TDM-500	9	T-9	1"
BLU-352-NT		5/16"	.49	.75	.10	.88	1.86					
BLU-2515-NT	2 AWG	#10	.50	.69	.13	.87	1.73	Brown	TDM-250 or TDM-500	10	T-10	1"
BLU-25-NT		1/4"	.50	.69	.13	.87	1.73					
BLU-251-NT		5/16"	.50	.75	.13	.87	1.86					
BLU-1516-NT	1 AWG	#10	.50	.56	.15	.62	1.42	Green	TDM-250 or TDM-500	11	T-11	3/4"
BLU-159-NT		1/4"	.50	.56	.15	.62	1.42					
BLU-1/0510-NT	1/0 AWG	#10	.62	.87	.14	.88	2.05	Pink	TDM-250 or TDM-500	12	T-12	1"
BLU-1/0519-NT		1/4"	.62	.87	.14	.88	2.05					
BLU-1/05-NT		5/16"	.62	.87	.14	.88	2.05					
BLU-1/051-NT		3/8"	.62	.88	.14	.88	2.05					
BLU-2/0510-NT	2/0 AWG	#10	.58	.81	.15	.98	2.14	Black	TDM-250 or TDM-500	13	T-13	1-1/8"
BLU-2/0520-NT		1/4"	.58	.81	.15	.98	2.14					
BLU-2/0521-NT		5/16"	.58	.81	.15	.98	2.14					
BLU-2/05-NT		3/8"	.58	.87	.15	.98	2.11					
BLU-3/0514-NT	3/0 AWG	1/4"	.64	.81	.17	.75	1.94	Orange	TDM-250 or TDM-500	14	T-14	7/8"
BLU-3/0515-NT		5/16"	.64	.81	.17	.75	1.94					1-1/8"
BLU-3/05-NT		3/8"	.64	.87	.17	1.00	2.25					
BLU4/0519-NT	4/0 AWG	1/4"	.71	.78	.20	1.00	2.22	Purple	TDM-250 or TDM-500	15	T-15	1-1/8"
BLU-4/0525-NT		5/16"	.71	.78	.20	1.00	2.22					
BLU-4/05-NT		3/8"	.71	.87	.20	1.00	2.31					
BLU-02554-NT	250 kcmil	1/4"	.77	.78	.21	1.06	2.34	Yellow	TDM-250 or TDM-500	16	T-16	1-3/16"
BLU-02555-NT		5/16"	.77	.78	.21	1.06	2.34					
BLU-02552-NT		3/8"	.77	1.13	.21	1.06	2.69					
BLU-03052-NT	300 kcmil	1/4"	.81	.78	.20	1.03	2.32	White	TDM-500	17	T-17	1-3/16"
BLU-03057-NT		3/8"	.81	1.09	.20	1.03	2.61					
BLU-03551-NT	350 kcmil	3/8"	.88	.88	.25	1.13	2.63	Red	TDM-500	18	T-18	1-1/4"
BLU-0355-NT		1/2"	.88	1.16	.25	1.13	2.91					
BLU-04053-NT	400 kcmil	3/8"	.96	.88	.27	1.19	2.75	Blue	TDM-500	19	T-19	1-5/16"
BLU-04054-NT		1/2"	.96	1.19	.27	1.19	3.06					
BLU-05053-NT	500 kcmil	3/8"	1.06	.88	.26	1.38	3.03	Brown	TDM-500	20	T-20	1-1/2"
BLU-05052-NT		1/2"	1.06	1.07	.26	1.38	3.11					
BLU-06052-NT	600 kcmil	3/8"	1.19	1.50	.33	1.38	3.72	Green		22	T-22	1-1/2"
BLU-06051-NT		1/2"	1.19	1.75	.33	1.38	3.84					
BLU-07551-NT	750 kcmil	3/8"	1.30	1.50	.32	1.63	4.06	Black		24	T-24	1-3/4"
BLU-07553-NT		1/2"	1.30	1.75	.32	1.63	4.22					
BLU-0755-NT		5/8"	1.30	1.75	.32	1.63	4.22					
BLU-10052-NT	1000 kcmil	3/8"	1.50	1.50	.38	1.88	4.28	White		27	T-27P	2"
BLU-10055-NT		1/2"	1.50	1.75	.38	1.88	4.53					
BLU-1005-NT		5/8"	1.50	1.75	.38	1.88	4.53					

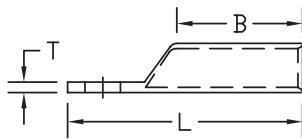
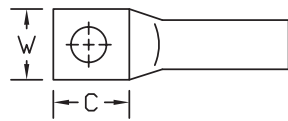
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Long Barrel - One Hole Tongue with Closed Transition

Type BBLU-S









- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Closed transition protects end of cable from environmental conditions
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLU-S

See table for dimensions and installation tooling information

BBLU-S DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING				WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	
BBLU-85 ■	8 AWG	#10	.41	.69	.08	1.06	2.00	Red	TDM-250 or TDM-500	6	T-49	1-3/16"
BBLU-852 ■		1/4"	.41	.69	.08	1.06	2.00					
BBLU-65	6 AWG	1/4"	.41	.69	.09	1.09	2.03	Blue	TDM-250 or TDM-500	7	T-7	1-1/4"
BBLU-651		1/2"	.70	1.07	.09	1.00	2.20					
BBLU-45	4 AWG	1/4"	.48	.69	.09	1.09	2.06	Gray	TDM-250 or TDM-500	8	T-8	1-1/4"
BBLU-451		3/8"	.82	1.23	.10	1.13	2.65					
BBLU-452		1/2"	.70	1.07	.09	1.00	2.20					
BBLU-353	3 AWG	1/4"	.53	.75	.10	1.12	2.15	White	TDM-250 or TDM-500	9	T-9	1-1/4"
BBLU-351		5/16"	.53	.75	.09	1.13	2.16					
BBLU-35		1/2"	.93	1.12	.10	1.13	2.53					
BBLU-259	2 AWG	#10	.59	.75	.11	1.22	2.25	Brown	TDM-250 or TDM-500	10	T-10	1-3/8"
BBLU-252		1/4"	.59	.75	.11	1.22	2.25					
BBLU-25		5/16"	.59	.75	.11	1.22	2.25					
BBLU-254		3/8"	.59	.75	.11	1.22	2.25					
BBLU-253		1/2"	.75	1.07	.09	1.10	2.33					
BBLU-153	1 AWG	#10	.67	.75	.11	1.34	2.38	Green	TDM-250 or TDM-500	11	T-11	1-1/2"
BBLU-157		1/4"	.67	.75	.11	1.34	2.38					
BBLU-15		5/16"	.67	.75	.11	1.34	2.36					
BBLU-152		3/8"	.67	.75	.11	1.34	2.38					
BBLU-158		1/2"	.75	1.25	.09	1.38	2.86					
BBLU-1/05	1/0 AWG	5/16"	.73	.75	.13	1.34	2.44	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"
BBLU-1/052		3/8"	.75	.81	.12	1.25	2.37					
BBLU-1/0515		1/2"	.75	1.38	.13	1.38	3.06					
BBLU-2/05	2/0 AWG	3/8"	.81	.87	.13	1.50	2.72	Black	TDM-250 or TDM-500	13	T-13	1-5/8"
BBLU-2/051		1/2"	.81	1.25	.13	1.50	3.06					
BBLU-3/052	3/0 AWG	3/8"	.89	1.25	.12	1.50	3.12	Orange	TDM-250 or TDM-500	14	T-14	1-5/8"
BBLU-3/05		1/2"	.89	1.25	.13	1.50	3.12					
BBLU-4/05	4/0 AWG	1/2"	1.00	1.25	.14	1.63	3.31	Purple	TDM-250 or TDM-500	15	T-15	1-3/4"
BBLU-0255	250 kcmil	1/2"	1.09	1.25	.16	1.63	3.38	Yellow	TDM-250 or TDM-500	16	T-16	1-3/4"
BBLU-0305	300 kcmil	1/2"	1.19	1.25	.16	2.00	3.81	White	TDM-500	17	T-17	2-1/8"
BBLU-0355	350 kcmil	1/2"	1.28	1.25	.17	2.00	3.84	Red	TDM-500	18	T-18	2-1/8"
BBLU-0405	400 kcmil	5/8"	1.39	1.50	.19	2.13	4.31	Blue	TDM-500	19	T-19	2-1/4"
BBLU-04051		1/2"	1.39	1.25	.18	2.12	4.06					
BBLU-0505	500 kcmil	5/8"	1.53	1.47	.21	2.31	4.56	Brown		20	T-20	2-3/8"
BBLU-05052		1/2"	1.53	1.25	.21	2.25	4.25					
BBLU-06052	600 kcmil	1/2"	1.72	1.50	.27	2.69	5.09	Green		22	T-22	2-13/16"
BBLU-0605		5/8"	1.72	1.75	.27	2.69	5.34					
BBLU-0655	650 kcmil	1/2"	1.78	1.75	.26	2.81	5.40	Pink		300	T-300	2-15/16"
BBLU-06551		5/8"	1.78	1.75	.27	2.81	5.41					
BBLU-0755	750 kcmil	5/8"	1.91	1.75	.27	2.88	5.56	Black		24	T-24	3"
BBLU-0805	800 kcmil	5/8"	1.96	1.50	.25	2.93	5.46	Orange		25	T-25P	1-3/4"
BBLU-1005	1000 kcmil	5/8"	2.17	1.75	.33	3.00	5.88	White		27	T-27P	3-1/8"
BBLU-1505	1500 kcmil	3/4"	2.69	2.13	.39	3.19	6.53	Green		31	T-31P	3-5/16"
BBLU-2005	2000 kcmil	3/4"	3.07	2.12	.46	3.43	6.87	Brown		34	-	3-9/16"

■ CSAus certified

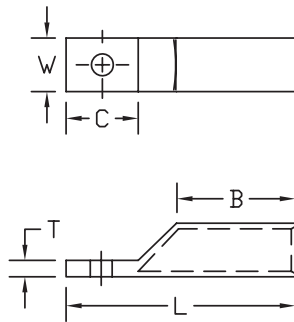
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Long Barrel - One Hole Narrow Tongue with Closed Transition

Type BBLU-S-NT





- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Closed transition protects end of cable from environmental conditions
- **Narrow tongue design for limited space applications**
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLU-S-NT

See table for dimensions and installation tooling information

BBLU-S-NT DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING				WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBLU-4S5-NT	4 AWG	#10	.40	.69	.11	1.09	2.06	Gray	TDM-250 or TDM-500	8	T-8	1-1/4"
BBLU-4S-NT		1/4"	.40	.69	.11	1.09	2.06					
BBLU-2S9-NT	2 AWG	#10	.50	.75	.13	1.22	2.25	Brown	TDM-250 or TDM-500	10	T-10	1-3/8"
BBLU-2S2-NT		1/4"	.50	.75	.13	1.22	2.25					
BBLU-2S-NT		5/16"	.50	.75	.13	1.22	2.25					
BBLU-1S3-NT	1 AWG	#10	.50	.75	.15	1.34	2.38	Green	TDM-250 or TDM-500	11	T-11	1-1/2"
BBLU-1S7-NT		1/4"	.50	.75	.15	1.34	2.38					
BBLU-1/0S6-NT	1/0 AWG	#10	.62	.75	.14	1.34	2.44	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"
BBLU-1/0S4-NT		1/4"	.62	.75	.14	1.34	2.44					
BBLU-1/0S-NT		5/16"	.62	.75	.14	1.34	2.44					
BBLU-1/0S2-NT		3/8"	.62	.81	.14	1.25	2.38					
BBLU-2/0S5-NT	2/0 AWG	#10	.62	.75	.16	1.50	2.56	Black	TDM-250 or TDM-500	13	T-13	1-5/8"
BBLU-2/0S6-NT		1/4"	.62	.75	.16	1.50	2.56					
BBLU-2/0S3-NT		5/16"	.62	.75	.16	1.50	2.56					
BBLU-2/0S-NT		3/8"	.62	.87	.16	1.50	2.72					
BBLU-3/0S3-NT	3/0 AWG	1/4"	.64	1.25	.17	1.50	3.12	Orange	TDM-250 or TDM-500	14	T-14	1-5/8"
BBLU-3/0S4-NT		5/16"	.64	1.25	.17	1.50	3.12					
BBLU-3/0S2-NT		3/8"	.64	1.25	.17	1.50	3.12					
BBLU-4/0S3-NT	4/0 AWG	5/16"	.71	1.25	.20	1.63	3.31	Purple	TDM-250 or TDM-500	15	T-15	1-3/4"
BBLU-4/0S4-NT		3/8"	.71	1.25	.20	1.63	3.31					
BBLU-4/0S-NT		1/2"	.71	1.25	.20	1.63	3.31					
BBLU-02S52-NT	250 kcmil	5/16"	.77	1.25	.21	1.63	3.38	Yellow	TDM-250 or TDM-500	16	T-16	1-3/4"
BBLU-02S55-NT		3/8"	.77	1.25	.21	1.63	3.38					
BBLU-02S5-NT		1/2"	.77	1.25	.21	1.63	3.38					
BBLU-030S1-NT	300 kcmil	3/8"	.83	1.25	.22	2.00	3.81	White	TDM-500	17	T-17	2-1/8"
BBLU-030S-NT		1/2"	.83	1.25	.22	2.00	3.81					
BBLU-03S51-NT	350 kcmil	3/8"	.88	1.25	.25	2.00	3.84	Red	TDM-500	18	T-18	2-1/8"
BBLU-03S5-NT		1/2"	.88	1.25	.25	2.00	3.84					
BBLU-040S2-NT	400 kcmil	3/8"	.96	1.25	.27	2.13	4.06	Blue	TDM-500	19	T-19	2-1/4"
BBLU-040S1-NT		1/2"	.96	1.25	.27	2.13	4.06					
BBLU-050S3-NT	500 kcmil	3/8"	1.06	1.25	.26	2.25	4.25	Brown	TDM-500	20	T-20	2-3/8"
BBLU-050S2-NT		1/2"	1.06	1.25	.26	2.25	4.25					
BBLU-060S3-NT	600 kcmil	3/8"	1.19	1.50	.39	2.69	5.09	Green		22	T-22	2-13/16"
BBLU-060S2-NT		1/2"	1.19	1.50	.39	2.69	5.09					
BBLU-06S52-NT	650 kcmil	3/8"	1.23	1.75	.40	2.81	5.41	Pink		300	T-300	2-15/16"
BBLU-06S5-NT		1/2"	1.23	1.75	.40	2.81	5.41					
BBLU-07S53-NT	750 kcmil	3/8"	1.30	1.75	.32	2.88	5.56	Black		24	T-24	3"
BBLU-07S52-NT		1/2"	1.30	1.75	.32	2.88	5.56					
BBLU-07S5-NT		5/8"	1.30	1.75	.32	2.88	5.56					
BBLU-100S3-NT	1000 kcmil	3/8"	1.50	1.75	.48	3.00	5.88	White		27	T-27P	3-1/8"
BBLU-100S1-NT		1/2"	1.50	1.75	.48	3.00	5.88					
BBLU-100S-NT		5/8"	1.50	1.75	.48	3.00	5.88					

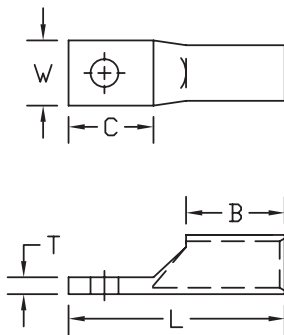
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- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Long Barrel - One Hole Tongue with Inspection Window

Type BBLZ-S

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLZ-S

See table for dimensions and installation tooling information

BBLZ-S DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING				WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBLZ-8S2	8 AWG	1/4"	.41	.69	.08	1.06	2.00	Red	TDM-250 or TDM-500	6	T-49	1-3/16"
BBLZ-6S	6 AWG	1/4"	.41	.69	.09	1.09	2.03	Blue	TDM-250 or TDM-500	7	T-7	1-3/16"
BBLZ-4S	4 AWG	1/4"	.48	.69	.09	1.09	2.06	Gray	TDM-250 or TDM-500	8	T-8	1-3/16"
BBLZ-3S3	3 AWG	1/4"	.53	.75	.10	1.13	2.16	White	TDM-250 or TDM-500	9	T-9	1-1/4"
BBLZ-3S1		5/16"	.53	.75	.10	1.13	2.16					
BBLZ-2S2	2 AWG	1/4"	.59	.75	.11	1.22	2.25	Brown	TDM-250 or TDM-500	10	T-10	1-3/8"
BBLZ-2S		5/16"	.59	.75	.11	1.22	2.25					
BBLZ-1S7	1 AWG	1/4"	.67	.75	.11	1.34	2.36	Green	TDM-250 or TDM-500	11	T-11	1-1/2"
BBLZ-1S		5/16"	.67	.75	.11	1.34	2.36					
BBLZ-1S2		3/8"	.67	.75	.11	1.34	2.36					
BBLZ-1/0S	1/0 AWG	5/16"	.73	.75	.13	1.34	2.44	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"
BBLZ-1/0S2		3/8"	.75	.81	.13	1.25	2.38					1-3/8"
BBLZ-1/0S15		1/2"	.75	1.38	.13	1.38	3.06					1-1/2"
BBLZ-2/0S	2/0 AWG	3/8"	.81	.87	.13	1.50	2.72	Black	TDM-250 or TDM-500	13	T-13	1-5/8"
BBLZ-2/0S1		1/2"	.81	1.25	.13	1.50	3.06					
BBLZ-3/0S2	3/0 AWG	3/8"	.89	1.25	.13	1.50	3.12	Orange	TDM-250 or TDM-500	14	T-14	1-5/8"
BBLZ-3/0S		1/2"	.89	1.25	.13	1.50	3.12					
BBLZ-4/0S	4/0 AWG	1/2"	1.00	1.25	.14	1.63	3.31	Purple	TDM-250 or TDM-500	15	T-15	1-3/4"
BBLZ-025S	250 kcmil	1/2"	1.09	1.25	.16	1.63	3.38	Yellow	TDM-250 or TDM-500	16	T-16	1-3/4"
BBLZ-030S7	300 kcmil	3/8"	1.19	1.25	.16	2.00	3.81	White	TDM-500	17	T-17	2-1/8"
BBLZ-030S		1/2"	1.19	1.25	.16	2.00	3.81					
BBLZ-035S	350 kcmil	1/2"	1.28	1.25	.17	2.00	3.84	Red	TDM-500	18	T-18	2-1/8"
BBLZ-040S	400 kcmil	5/8"	1.39	1.50	.19	2.13	4.31	Blue	TDM-500	19	T-19	2-1/4"
BBLZ-050S	500 kcmil	5/8"	1.53	1.47	.21	2.31	4.56	Brown	TDM-500	20	T-20	2-3/8"
BBLZ-060S	600 kcmil	5/8"	1.72	1.75	.27	2.69	5.34	Green		22	T-22	2-13/16"
BBLZ-065S	650 kcmil	1/2"	1.78	1.75	.26	2.81	5.41	Pink		300	T-300	2-15/16"
BBLZ-065S1		5/8"	1.78	1.75	.27	2.81	5.41					
BBLZ-075S	750 kcmil	5/8"	1.91	1.75	.27	2.88	5.56	Black		24	T-24	3"
BBLZ-080S	800 kcmil	5/8"	1.96	1.50	.25	2.94	5.46	Orange		25	T-25P	3-1/16"
BBLZ-100S	1000 kcmil	5/8"	2.17	1.75	.33	3.00	5.88	White		27	T-27P	3-1/8"
BBLZ-150S	1500 kcmil	3/4"	2.69	2.13	.39	3.19	6.53	Green		31	T-31P	3-5/16"
BBLZ-200S	2000 kcmil	3/4"	3.07	2.13	.46	3.44	6.88	Brown		34	-	3-9/16"

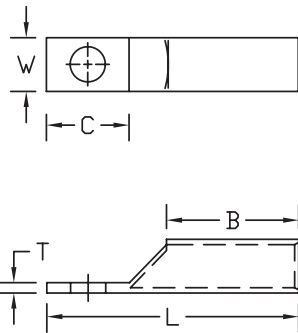
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Long Barrel - One Hole Narrow Tongue with Inspection Window

Type BBLZ-S-NT

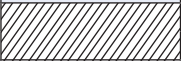

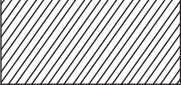

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- **Narrow tongue design for limited space applications**
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLZ-S-NT

See table for dimensions and installation tooling information

BBLZ-S-NT DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING				WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBLZ-45S-NT	4 AWG	#10	.40	.69	.11	1.09	2.06	Gray	TDM-250 & TDM-500	8	T-8	1-1/4"
BBLZ-4S-NT		1/4"	.40	.69	.11	1.09	2.06					
BBLZ-259-NT	2 AWG	#10	.50	.75	.13	1.22	2.25	Brown	TDM-250 & TDM-500	10	T-10	1-3/8"
BBLZ-252-NT		1/4"	.50	.75	.13	1.22	2.25					
BBLZ-2S-NT		5/16"	.50	.75	.13	1.22	2.25					
BBLZ-153-NT	1 AWG	#10	.50	.75	.15	1.34	2.38	Green	TDM-250 & TDM-500	11	T-11	1-1/2"
BBLZ-157-NT		1/4"	.50	.75	.15	1.34	2.38					
BBLZ-1/0S6-NT	1/0 AWG	#10	.62	.75	.14	1.34	2.44	Pink	TDM-250 & TDM-500	12	T-12	1-1/2"
BBLZ-1/0S4-NT		1/4"	.62	.75	.14	1.34	2.44					
BBLZ-1/0S-NT		5/16"	.62	.75	.14	1.34	2.44					
BBLZ-1/0S2-NT		3/8"	.62	.81	.14	1.25	2.38					
BBLZ-2/0S5-NT	2/0 AWG	#10	.62	.75	.16	1.50	2.56	Black	TDM-250 & TDM-500	13	T-13	1-5/8"
BBLZ-2/0S6-NT		1/4"	.62	.75	.16	1.50	2.56					
BBLZ-2/0S3-NT		5/16"	.62	.75	.16	1.50	2.56					
BBLZ-2/0S-NT		3/8"	.62	.87	.16	1.50	2.72					
BBLZ-3/0S3-NT	3/0 AWG	1/4"	.64	1.25	.17	1.50	3.12	Orange	TDM-250 & TDM-500	14	T-14	1-5/8"
BBLZ-3/0S4-NT		5/16"	.64	1.25	.17	1.50	3.12					
BBLZ-3/0S2-NT		3/8"	.64	1.25	.17	1.50	3.12					
BBLZ-4/0S3-NT	4/0 AWG	5/16"	.71	1.25	.20	1.63	3.31	Purple	TDM-250 & TDM-500	15	T-15	1-1/4"
BBLZ-4/0S4-NT		3/8"	.71	1.25	.20	1.63	3.31					
BBLZ-4/0S-NT		1/2"	.71	1.25	.20	1.63	3.31					
BBLZ-025S2-NT	250 kcmil	5/16"	.77	1.25	.21	1.63	3.38	Yellow	TDM-250 & TDM-500	16	T-16	1-3/4"
BBLZ-025S5-NT		3/8"	.77	1.25	.21	1.63	3.38					
BBLZ-025S-NT		1/2"	.77	1.25	.21	1.63	3.38					
BBLZ-030S1-NT	300 kcmil	3/8"	.83	1.25	.22	2.00	3.81	White	TDM-500	17	T-17	2-1/8"
BBLZ-030S-NT		1/2"	.83	1.25	.22	2.00	3.81					
BBLZ-035S1-NT	350 kcmil	3/8"	.88	1.25	.25	2.00	3.84	Red	TDM-500	18	T-18	2-1/8"
BBLZ-035S-NT		1/2"	.88	1.25	.25	2.00	3.84					
BBLZ-040S2-NT	400 kcmil	3/8"	.96	1.25	.27	2.13	4.06	Blue	TDM-500	19	T-19	2-1/4"
BBLZ-040S1-NT		1/2"	.96	1.25	.27	2.13	4.06					
BBLZ-050S3-NT	500 kcmil	3/8"	1.06	1.25	.30	2.25	4.25	Brown	TDM-500	20	T-20	2-3/8"
BBLZ-050S2-NT		1/2"	1.06	1.25	.30	2.25	4.25					
BBLZ-060S3-NT	600 kcmil	3/8"	1.19	1.50	.39	2.69	5.09	Green		22	T-22	2-13/16"
BBLZ-060S2-NT		1/2"	1.19	1.50	.39	2.69	5.09					
BBLZ-065S2-NT	650 kcmil	3/8"	1.23	1.75	.40	2.81	5.41	Pink		300	T-300	2-15/16"
BBLZ-065S-NT		1/2"	1.23	1.75	.40	2.81	5.41					
BBLZ-075S3-NT	750 kcmil	3/8"	1.30	1.75	.40	2.88	5.56	Black		24	T-24	3"
BBLZ-075S2-NT		1/2"	1.30	1.75	.40	2.88	5.56					
BBLZ-075S-NT		5/8"	1.30	1.75	.40	2.88	5.56					
BBLZ-100S3-NT	1000 kcmil	3/8"	1.50	1.75	.48	3.00	5.88	White		27	T-27P	3-1/8"
BBLZ-100S1-NT		1/2"	1.50	1.75	.48	3.00	5.88					
BBLZ-100S-NT		5/8"	1.50	1.75	.48	3.00	5.88					

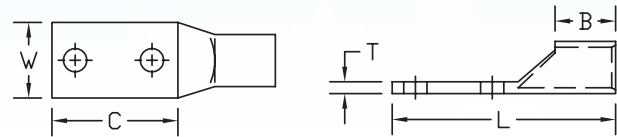
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Standard Barrel - Two Hole Tongue with Inspection Window

Type BLU-D



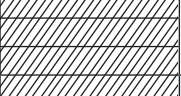


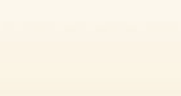
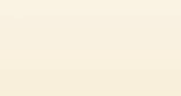
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- Two hole mounting pad assures maximum secureness
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BLU-D DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH
BLU-8D2TC10	8 AWG	#10	.63	.37	1.13	.08	.41	1.78	Red	TDM-250 or TDM-500	6	T-49	1/2"
BLU-8D2TC14		1/4"	.63	.41	1.22	.08	.41	1.88					
BLU-8D2TC14E2		1/4"	.75	.41	1.36	.08	.41	2.01					
BLU-8D2TC14E1		1/4"	1.00	.41	1.61	.08	.41	2.26					
BLU-8D2TC38		3/8"	1.00	.60	1.75	.08	.57	2.53					
BLU-6D2TC10	6 AWG	#10	.63	.41	1.22	.09	.81	2.25	Blue	TDM-250 or TDM-500	7	T-7	15/16"
BLU-6D2TC14		1/4"	.63	.41	1.22	.09	.81	2.25					
BLU-6D2TC14E2		1/4"	.75	.41	1.36	.09	.81	2.42					
BLU-6D2TC14E1		1/4"	1.00	.41	1.61	.09	.81	2.67					
BLU-6D2TC516E2		5/16"	.75	.61	1.47	.06	.81	2.54					
BLU-6D2TC516		5/16"	1.00	.59	1.74	.06	.60	2.49					
BLU-6D2TC38		3/8"	1.00	.61	1.83	.06	.81	2.90					
BLU-6DN	1/2"	1.75	.81	2.88	.06	.81	3.95						
BLU-5D2TC10	5 AWG	#10	.63	.44	1.22	.08	.81	2.25	Blue	TDM-250 or TDM-500	7	T-7	15/16"
BLU-5D2TC14		1/4"	.63	.44	1.22	.08	.81	2.25					
BLU-5D2TC14E1		1/4"	1.00	.44	1.60	.08	.81	2.67					
BLU-5D2TC38		3/8"	1.00	.44	1.67	.08	.81	2.73					
BLU-5D2		1/2"	1.75	.81	2.95	.10	.81	4.08					
BLU-4D2TC14	4 AWG	1/4"	.63	.50	1.22	.09	.81	2.33	Gray	TDM-250 or TDM-500	8	T-8	15/16"
BLU-4D2TC14E2		1/4"	.75	.50	1.36	.09	.81	2.43					
BLU-4D2TC14E1		1/4"	1.00	.50	1.61	.09	.81	2.68					
BLU-4D2TC516		5/16"	1.00	.61	1.70	.08	.81	2.78					
BLU-4D2TC38		3/8"	1.00	.61	1.81	.08	.81	2.87					
BLU-4D1		1/2"	1.75	.92	2.83	.10	.81	3.90					
BLU-3D2TC14	3 AWG	1/4"	.63	.65	1.22	.20	.88	2.32	White	TDM-250 or TDM-500	9	T-9	1"
BLU-2D2TC14	2 AWG	1/4"	.63	.59	1.22	.11	.88	2.32	Brown	TDM-250 or TDM-500	10	T-10	1"
BLU-2D2TC14E2		1/4"	.75	.59	1.36	.11	.88	2.50					
BLU-2D2TC14E1		1/4"	1.00	.59	1.56	.11	.88	2.67					
BLU-2D2TC38		3/8"	1.00	.59	1.83	.11	.88	2.96					
BLU-2D2		1/2"	1.75	.81	2.88	.09	.88	3.98					
BLU-1D2TC14	1 AWG	1/4"	.63	.67	1.22	.10	.94	2.41	Green	TDM-250 or TDM-500	11	T-11	1-1/16"
BLU-1D2TC516E6		5/16"	.88	.67	1.62	.10	.94	2.79					
BLU-1D5		1/2"	1.75	.70	2.71	.09	.83	3.69					
BLU-1/0D2TC14	1/0 AWG	1/4"	.63	.74	1.22	.11	.88	2.44	Pink	TDM-250 or TDM-500	12	T-12	1"
BLU-1/0D2TC14E2		1/4"	.75	.74	1.36	.11	.88	2.58					
BLU-1/0D2TC516E6		5/16"	.88	.74	1.62	.11	.88	2.81					

BLU-D DIMENSIONS & INSTALLATION TOOLING INFORMATION (continued)

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	
BLU-1/0D2TC516	1/0 AWG	5/16"	1.00	.74	1.72	.11	.88	2.94	Pink	TDM-250 or TDM-500	12	T-12	1"
BLU-1/0D2TC38		3/8"	1.00	.74	1.83	.11	.88	3.02					
BLU-1/0D2NTC38		3/8"	1.75	.74	2.58	.11	.88	3.77					
BLU-1/0D2		1/2"	1.75	.82	2.82	.10	.89	3.98					
BLU-2/0D2TC14	2/0 AWG	1/4"	.63	.82	1.22	.12	.94	2.50	Black	TDM-250 or TDM-500	13	T-13	1-1/16"
BLU-2/0D2TC14E2		1/4"	.75	.82	1.36	.12	.94	2.64					
BLU-2/0D2TC14E1		1/4"	1.00	.82	1.61	.12	.94	2.89					
BLU-2/0D2TC516E6		5/16"	.88	.82	1.62	.12	.94	2.88					
BLU-2/0D2TC516E		5/16"	1.00	.82	1.72	.12	.94	3.00					
BLU-2/0D2TC38		3/8"	1.00	.82	1.83	.12	.94	3.08					
BLU-2/0D		1/2"	1.75	.82	2.88	.12	.94	4.13					
BLU-3/0D2TC14E2	3/0 AWG	1/4"	.75	.89	1.36	.13	1.00	2.77	Orange	TDM-250 or TDM-500	14	T-14	1-1/8"
BLU-3/0D11		5/16"	.88	.89	1.62	.13	1.00	3.00					
BLU-3/0D2TC516		5/16"	1.00	.89	1.72	.13	1.00	3.13					
BLU-3/0D2TC38		3/8"	1.00	.89	1.83	.13	1.00	3.24					
BLU-3/0D6		1/2"	1.00	.89	2.13	.13	1.00	3.50					
BLU-3/0D		1/2"	1.75	.89	2.88	.13	1.00	4.25					
BLU-4/0D2TC14E2	4/0 AWG	1/4"	.75	1.00	1.36	.14	1.00	2.83	Purple	TDM-250 or TDM-500	15	T-15	1-1/8"
BLU-4/0D2TC14E1		1/4"	1.00	1.00	1.61	.14	1.00	3.08					
BLU-4/0D2TC516		5/16"	1.00	1.00	1.72	.14	1.00	3.18					
BLU-4/0D2TC38		3/8"	1.00	1.00	1.83	.14	1.00	3.30					
BLU-4/0D		1/2"	1.75	1.00	2.88	.14	1.00	4.31					
BLU-025D2TC38	250 kcmil	3/8"	1.00	1.09	1.83	.16	1.06	3.43	Yellow	TDM-250 or TDM-500	16	T-16	1-3/16"
BLU-025D		1/2"	1.75	1.09	2.88	.16	1.06	4.44					
BLU-030D2TC14	300 kcmil	1/4"	.63	1.19	1.27	.16	1.03	2.82	White	TDM-500	17	T-17	1-3/16"
BLU-030D2TC516		5/16"	1.00	1.19	1.72	.16	1.06	3.37					
BLU-030D2TC38		3/8"	1.00	1.19	1.83	.16	1.06	3.50					
BLU-030D2		1/2"	1.00	1.19	2.06	.16	1.06	3.75					
BLU-030D		1/2"	1.75	1.19	2.88	.16	1.06	4.50					
BLU-035D2TC14E2	350 kcmil	1/4"	.75	1.28	1.36	.17	1.13	3.14	Red	TDM-500	18	T-18	1-1/4"
BLU-035D2NTC516		5/16"	1.75	1.28	2.88	.17	1.13	4.63					
BLU-035D2TC38		3/8"	1.00	1.28	1.83	.17	1.13	3.61					
BLU-035D2TC12		1/2"	1.25	1.28	2.40	.17	1.13	4.18					
BLU-035D		1/2"	1.75	1.28	2.88	.17	1.13	4.63					
BLU-040D2TC516	400 kcmil	5/16"	1.00	1.39	1.72	.19	1.19	3.63	Blue	TDM-500	19	T-19	1-5/16"
BLU-040D2TC38		3/8"	1.00	1.39	1.83	.19	1.19	3.74					
BLU-040D		1/2"	1.75	1.39	2.88	.19	1.19	4.75					
BLU-045D	450 kcmil	1/2"	1.75	1.45	2.88	.21	1.18	4.75	Blue	TDM-500	19	T-19	1-5/16"
BLU-050D2TC14E2	500 kcmil	1/4"	.75	1.53	1.36	.21	1.38	3.52	Brown	TDM-500	20	T-20	1-1/2"
BLU-050D2TC38		3/8"	1.00	1.53	1.83	.21	1.38	3.99					
BLU-050D2TC12		1/2"	1.25	1.53	2.40	.21	1.38	4.56					
BLU-050D		1/2"	1.75	1.53	2.88	.21	1.38	5.00					
BLU-060D2TC38	600 kcmil	3/8"	1.00	1.72	1.83	.27	1.38	4.08	Green		22	T-22	1-1/2"
BLU-060D		1/2"	1.75	1.72	2.88	.27	1.38	5.09					
BLU-065D-2TC38	650 kcmil	3/8"	1.00	1.78	1.83	.27	1.38	4.08	Pink		300	T-300	1-5/8"
BLU-065D2TC12		1/2"	1.25	1.78	2.40	.27	1.38	4.65					
BLU-065D		1/2"	1.75	1.78	2.88	.27	1.38	5.09					
BLU-075D2TC38	750 kcmil	3/8"	1.00	1.91	1.83	.27	1.63	4.43	Black		24	T-24	1-3/4"
BLU-075D2TC12E3		1/2"	1.50	1.91	2.65	.27	1.63	5.25					
BLU-075D		1/2"	1.75	1.91	2.88	.27	1.63	5.44					
BLU-080D2TC38	800 kcmil	3/8"	1.00	1.97	1.83	.25	1.63	4.49	Orange		25	-	1-3/4"
BLU-080D		1/2"	1.75	1.97	2.88	.25	1.63	5.53					
BLU-100D2TC38	1000 kcmil	3/8"	1.00	2.17	1.83	.33	1.88	4.83	White		27	T-27P	2"
BLU-100D2TC12		1/2"	1.25	2.17	2.40	.33	1.88	5.40					
BLU-100D		1/2"	1.75	2.17	2.88	.33	1.88	5.87					
BLU-150D	1500 kcmil	1/2"	1.75	2.69	2.88	2.87	2.00	6.09	Green		31	T-31P	2-1/8"
BLU-200D	2000 kcmil	1/2"	1.75	3.06	2.88	.47	2.00	6.38	Brown		34	-	-

• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

• Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications

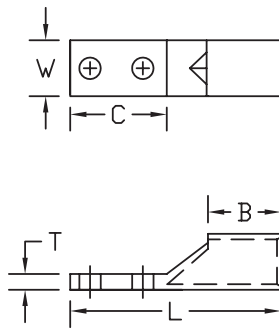
• Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467

• Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Standard Barrel - Two Hole Narrow Tongue with Inspection Window

Type BLU-D-NT

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- Two hole mounting pad assures maximum secureness
- **Narrow tongue design for limited space applications**
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BLU-D-NT

See table for dimensions and installation tooling information

BLU-D-NT DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BLU-4D-2TC10-NT	4 AWG	#10	.63	.40	1.22	.11	.81	2.33	Gray	TDM-250 or TDM-500	8	T-8	15/16"
BLU-4D-2TC10E1-NT		#10	1.00	.40	1.61	.11	.81	2.68					
BLU-4D-2TC14-NT		1/4"	.63	.40	1.22	.11	.81	2.33					
BLU-4D-2TC14E2-NT		1/4"	.75	.40	1.36	.11	.81	2.43					
BLU-4D-2TC14E1-NT		1/4"	1.00	.40	1.61	.11	.81	2.68					
BLU-2D-2TC14-NT	2 AWG	1/4"	.63	.50	1.22	.13	.88	2.32	Brown	TDM-250 or TDM-500	10	T-10	1"
BLU-2D-2TC14E2-NT		1/4"	.75	.50	1.36	.13	.88	2.49					
BLU-2D-2TC14E1-NT		1/4"	1.00	.50	1.61	.13	.88	2.74					
BLU-1D-2TC14-NT	1 AWG	1/4"	.63	.50	1.22	.13	.94	2.41	Green	TDM-250 or TDM-500	11	T-11	1-1/16"
BLU-1D-2TC14E2-NT		1/4"	.75	.50	1.36	.13	.94	2.55					
BLU-1D-2TC516-NT		5/16"	1.00	.50	1.72	.13	.94	2.88					
BLU-1/0D-2TC14-NT	1/0 AWG	1/4"	.63	.62	1.22	.13	.88	2.44	Pink	TDM-250 or TDM-500	12	T-12	1"
BLU-1/0D-2TC14E1-NT		1/4"	1.00	.62	1.61	.13	.88	2.80					
BLU-1/0D-2TC516E6-NT		5/16"	.88	.62	1.62	.13	.88	2.81					
BLU-1/0D-2TC516-NT		5/16"	1.00	.62	1.72	.13	.88	2.94					
BLU-2/0D-2TC14-NT	2/0 AWG	1/4"	.63	.62	1.22	.16	.94	2.50	Black	TDM-250 or TDM-500	13	T-13	1-1/16"
BLU-2/0D-2TC14E1-NT		1/4"	1.00	.62	1.61	.16	.94	2.89					
BLU-2/0D-2TC516-NT		5/16"	1.00	.62	1.83	.16	.94	3.08					
BLU-2/0D-2TC38-NT		3/8"	1.00	.62	1.83	.16	.94	3.08					
BLU-3/0D-2TC14-NT	3/0 AWG	1/4"	.63	.64	1.22	.18	1.00	2.60	Orange	TDM-250 or TDM-500	14	T-14	1-1/8"
BLU-3/0D-2TC38-NT		3/8"	1.00	.64	1.83	.18	1.00	3.24					
BLU-3/0D-2TC516-NT		5/16"	1.00	.64	1.72	.18	1.00	3.13					
BLU-4/0D-2TC14-NT	4/0 AWG	1/4"	.63	.71	1.22	.20	1.00	2.66	Purple	TDM-250 or TDM-500	15	T-15	1-1/8"
BLU-4/0D-2TC38-NT		3/8"	1.00	.71	1.83	.20	1.00	3.30					
BLU-4/0D-2TC516-NT		5/16"	1.00	.71	1.72	.20	1.00	3.16					
BLU-025D-2TC14-NT	250 kcmil	1/4"	.63	.77	1.22	.23	1.06	2.78	Yellow	TDM-250 or TDM-500	16	T-16	1-3/16"
BLU-025D-2TC38-NT		3/8"	1.00	.77	1.83	.23	1.06	3.43					
BLU-025D-2TC38E16-NT	350 kcmil	3/8"	1.75	.77	2.81	.23	1.06	4.37	Red	TDM-500	18	T-18	1-1/4"
BLU-035D-2TC38-NT		3/8"	1.00	.88	1.83	.25	1.13	3.61					
BLU-035D-2TC38E16-NT	500 kcmil	3/8"	1.75	.88	2.81	.25	1.13	4.57	Brown	TDM-500	20	T-20	1-1/2"
BLU-050D-2TC38-NT		3/8"	1.00	1.06	1.83	.26	1.38	3.87					
BLU-050D-2TC38E16-NT		3/8"	1.75	1.06	2.81	.26	1.38	4.94					
BLU-050D-2TC12E1-NT	600 kcmil	1/2"	1.00	1.06	2.09	.26	1.38	4.22	Green	TDM-500	22	T-22	1-1/2"
BLU-050D-NT		1/2"	1.75	1.06	2.95	.26	1.38	4.99					
BLU-060D-NT	750 kcmil	1/2"	1.75	1.19	2.88	.39	1.38	5.09	Black	TDM-500	24	T-24	1-3/4"
BLU-075D-2TC38-NT		3/8"	1.00	1.30	1.83	.32	1.63	4.30					
BLU-075D-2TC38E16-NT		3/8"	1.75	1.30	2.81	.32	1.63	5.38					
BLU-075D-2TC12E1-NT		1/2"	1.00	1.30	2.09	.32	1.63	4.66					
BLU-075D-NT	1000 kcmil	1/2"	1.75	1.30	2.85	.32	1.63	5.32	White	TDM-500	27	T-27P	2"
BLU-100D-2TC38-NT		3/8"	1.00	1.50	1.83	.38	1.88	4.61					
BLU-100D-2TC38E16-NT		3/8"	1.75	1.50	2.81	.38	1.88	5.81					
BLU-100D-NT		1/2"	1.75	1.50	2.85	.38	1.88	5.65					

• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

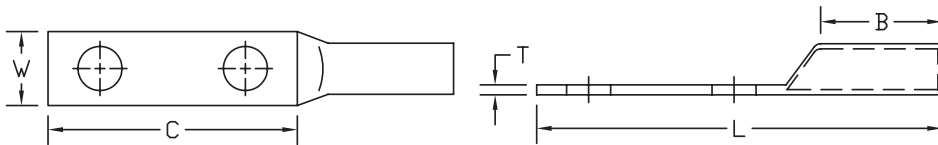
- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

COPPER COMPRESSION LUGS

Long Barrel - Two Hole Tongue with Closed Transition

Type BBLU-D

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Closed transition protects end of cable from environmental conditions
- Two hole mounting pad assures maximum secureness
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BBLU-D DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING							
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH			
BBLU-8D-2TC14	8 AWG	1/4"	.63	.41	1.22	.08	.94	2.44	Red	TDM-250 or TDM-500	6	T-49	1"			
BBLU-8D-2TC14E2		1/4"	.75	.41	1.36	.08	.94	2.58								
BBLU-8D-2TC38E3		3/8"	.81	.56	1.83	.06	.94	3.05								
BBLU-8D-2TC38		3/8"	1.00	.56	1.83	.06	.94	3.05								
BBLU-6D-2TC14	6 AWG	1/4"	.63	.41	1.22	.09	1.13	2.60	Blue	TDM-250 or TDM-500	7	T-7	1-3/16"			
BBLU-6D-2TC14E2		1/4"	.75	.41	1.36	.09	1.13	2.74					-	Y644HS	-	1"
BBLU-6D-2TC38E2		3/8"	.75	.61	1.58	.07	.94	2.74		TDM-250 or TDM-500	7	T-7	1-3/16"			
BBLU-6D-2TC38E3		3/8"	.81	.61	1.83	.06	1.13	3.21					-	Y644HS	-	1-1/16"
BBLU-6D-2TC38		3/8"	1.00	.61	1.83	.06	1.13	3.21					-	Y644HS	-	1-1/16"
BBLU-6DN		1/2"	1.75	.70	2.77	.09	1.00	3.92								
BBLU-5D-2TC14	5 AWG	1/4"	.63	.44	1.22	.08	1.13	2.60	Blue	TDM-250 or TDM-500	7	T-7	1-3/16"			
BBLU-5D-2TC14E2		1/4"	.75	.44	1.36	.08	1.13	2.74								
BBLU-5D-2TC38E2		3/8"	.75	.61	1.58	.07	1.13	2.96								
BBLU-5D-2TC38E3		3/8"	.81	.61	1.83	.07	1.13	3.21								
BBLU-5D-2TC38		3/8"	1.00	.61	1.83	.07	1.13	3.21								
BBLU-4D-2TC14	4 AWG	1/4"	.63	.50	1.22	.09	1.13	2.60	Gray	TDM-250 or TDM-500	8	T-8	1-1/4"			
BBLU-4D-2TC14E2		1/4"	.75	.50	1.36	.09	1.13	2.74								
BBLU-4D-2TC38E2		3/8"	.75	.61	1.56	.08	1.13	2.96								
BBLU-4D-2TC38E3		3/8"	.81	.61	1.83	.08	1.13	3.21								
BBLU-4D-2TC38		3/8"	1.00	.61	1.81	.08	1.13	3.21								
BBLU-4D1		1/2"	1.75	.92	3.00	.10	1.13	4.38								

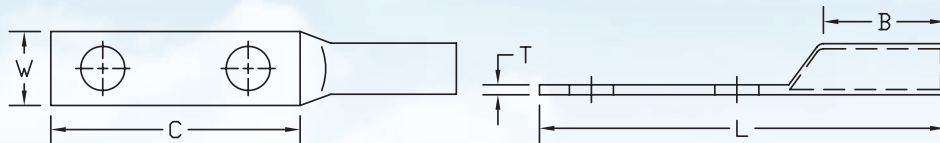
BBLU-D DIMENSIONS & INSTALLATION TOOLING INFORMATION (CONTINUED)

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	
BBLU-3D-2TC14	3 AWG	1/4"	.63	.65	1.22	.20	1.13	2.60	White	TDM-250 or TDM-500	9	T-9	1-1/4"
BBLU-3D-2TC14E2		1/4"	.75	.65	1.36	.20	1.13	2.74					
BBLU-3D-2TC38E2		3/8"	.75	.65	1.58	.20	1.13	2.96					
BBLU-3D-2TC38E3		3/8"	.81	.65	1.83	.20	1.13	3.21					
BBLU-3D-2TC38		3/8"	1.00	.65	1.83	.20	1.13	3.21					
BBLU-3D		5/16"	.88	.53	1.63	.09	1.13	3.03					
BBLU-2D	2 AWG	5/16"	.75	.59	1.58	.11	1.25	3.11	Brown	TDM-250 or TDM-500	10	T-10	1-5/16"
BBLU-2D-2TC14		1/4"	.63	.59	1.22	.11	1.25	2.75					
BBLU-2D-2TC14E2		1/4"	.75	.59	1.36	.11	1.25	2.89					
BBLU-2D-2TC38E2		3/8"	.75	.59	1.58	.11	1.25	3.11					
BBLU-2D-2TC38E3		3/8"	.81	.59	1.83	.11	1.25	3.36					
BBLU-2D-2TC38		3/8"	1.00	.59	1.83	.11	1.25	3.36					
BBLU-2D-2NTC38		3/8"	1.75	.59	2.58	.11	1.25	4.11					
BBLU-2D6		1/2"	1.75	.81	3.00	.10	1.25	4.53					
BBLU-1D	1 AWG	5/16"	.88	.67	1.63	.11	1.38	3.38	Green	TDM-250 or TDM-500	11	T-11	1-1/2"
BBLU-1D-2TC14		1/4"	.63	.67	1.22	.10	1.38	2.94					
BBLU-1D-2TC14E2		1/4"	.75	.67	1.36	.10	1.38	3.08					
BBLU-1D-2TC38E2		3/8"	.75	.67	1.58	.10	1.38	3.30					
BBLU-1D-2TC38E3		3/8"	.81	.67	1.83	.10	1.38	3.55					
BBLU-1D-2TC38		3/8"	1.00	.67	1.83	.10	1.38	3.55					
BBLU-1D2	1/2"	1.75	.70	2.77	.09	1.20	4.12	-	Y644HS	-	1-5/16"		
BBLU-1/0D	1/0 AWG	5/16"	.88	.73	1.59	.13	1.38	3.31	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"
BBLU-1/0D-2TC14		1/4"	.63	.74	1.22	.11	1.38	2.94					
BBLU-1/0D-2TC14E2		1/4"	.75	.74	1.36	.11	1.38	3.08					
BBLU-1/0D-2TC38E2		3/8"	.75	.74	1.58	.11	1.38	3.30					
BBLU-1/0D-2TC38E3		3/8"	.81	.74	1.83	.11	1.38	3.55					
BBLU-1/0D-2TC38		3/8"	1.00	.74	1.83	.11	1.38	3.55					
BBLU-1/0D-2NTC38		3/8"	1.75	.74	2.58	.11	1.38	4.30					
BBLU-1/0D3		1/2"	1.75	.81	3.00	.10	1.38	4.63					
BBLU-2/0D-2TC14	2/0 AWG	1/4"	.63	.82	1.22	.12	1.50	3.06	Black	TDM-250 or TDM-500	13	T-13	1-5/8"
BBLU-2/0D-2TC14E2		1/4"	.75	.82	1.36	.12	1.50	3.20					
BBLU-2/0D-2TC38E2		3/8"	.75	.82	1.58	.12	1.50	3.42					
BBLU-2/0D-2TC38E3		3/8"	.81	.82	1.83	.12	1.50	3.67					
BBLU-2/0D-2TC38		3/8"	1.00	.82	1.83	.12	1.50	3.67					
BBLU-2/0D		1/2"	1.75	.82	3.00	.12	1.50	4.84					
BBLU-3/0D-2TC14	3/0 AWG	1/4"	.63	.89	1.22	.13	1.50	3.13	Orange	TDM-250 or TDM-500	14	T-14	1-5/8"
BBLU-3/0D-2TC14E2		1/4"	.75	.89	1.36	.13	1.50	3.27					
BBLU-3/0D-2TC38E2		3/8"	.75	.89	1.58	.13	1.50	3.49					
BBLU-3/0D-2TC38E3		3/8"	.81	.89	1.83	.13	1.50	3.74					
BBLU-3/0D-2TC38		3/8"	1.00	.89	1.83	.13	1.50	3.74					
BBLU-3/0D		1/2"	1.75	.89	3.00	.13	1.50	4.91					
BBLU-4/0D-2TC14	4/0 AWG	1/4"	.63	1.00	1.22	.14	1.63	3.32	Purple	TDM-250 or TDM-500	15	T-15	1-3/4"
BBLU-4/0D-2TC14E2		1/4"	.75	1.00	1.36	.14	1.63	3.46					
BBLU-4/0D-2TC38E2		3/8"	.75	1.00	1.58	.14	1.63	3.68					
BBLU-4/0D-2TC38E3		3/8"	.81	1.00	1.83	.14	1.63	3.93					
BBLU-4/0D-2TC38		3/8"	1.00	1.00	1.83	.14	1.63	3.93					
BBLU-4/0D-2NTC38		3/8"	1.75	1.00	2.58	.14	1.63	4.68					
BBLU-4/0D-2TC716E2		7/16"	.75	1.00	1.83	.14	1.63	3.93					
BBLU-4/0D		1/2"	1.75	1.00	3.00	.14	1.63	5.10					
BBLU-025D-2TC14E2	250 kcmil	1/4"	.75	1.09	1.36	.16	1.63	3.58	Yellow	TDM-250 or TDM-500	16	T-16	1-3/4"
BBLU-025D-2TC38E3		3/8"	.81	1.09	1.83	.16	1.63	4.05					
BBLU-025D-2TC38		3/8"	1.00	1.09	1.83	.16	1.63	4.05					
BBLU-025D		1/2"	1.75	1.09	3.00	.16	1.63	5.13					
BBLU-030D-2TC14E2	300 kcmil	1/4"	.75	1.19	1.36	.16	2.00	3.95	White	TDM-500	17	T-17	2-1/8"
BBLU-030D-2TC38		3/8"	1.00	1.19	1.83	.16	2.00	4.42					
BBLU-030D		1/2"	1.75	1.19	3.00	.16	2.00	5.59					

CONTINUED ON PAGE 26

COPPER COMPRESSION LUGS

BBLU-D DIMENSIONS & INSTALLATION TOOLING INFORMATION (CONTINUED)



CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO. /TOOL	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH
BBLU-035D-2TC14E2	350 kcmil	1/4"	.75	1.28	1.36	.17	2.00	4.02	Red	TDM-500	18	T-18	2-1/8"
BBLU-035D-2TC38		3/8"	1.00	1.28	1.83	.17	2.00	4.49					
BBLU-035D		1/2"	1.75	1.28	3.00	.17	2.00	5.66					
BBLU-040D-2TC14E2	400 kcmil	1/4"	.75	1.39	1.36	.19	2.13	4.15	Blue	TDM-500	19	T-19	2-1/4"
BBLU-040D-2TC38		3/8"	1.00	1.39	1.83	.19	2.13	4.62					
BBLU-040D		1/2"	1.75	1.39	3.00	.19	2.13	5.79					
BBLU-050D-2TC14E2	500 kcmil	1/4"	.75	1.53	1.36	.21	2.25	4.39	Brown	TDM-500	20	T-20	2-3/8"
BBLU-050D-2TC38		3/8"	1.00	1.53	1.83	.21	2.25	4.86					
BBLU-050D		1/2"	1.75	1.53	3.00	.21	2.25	6.03					
BBLU-060D-2TC38	600 kcmil	3/8"	1.00	1.72	1.83	.27	2.69	5.39	Green	[Hatched]	22	T-22	2-13/16"
BBLU-060D		1/2"	1.75	1.72	3.00	.27	2.69	6.56					
BBLU-065D-2TC38	650 kcmil	3/8"	1.00	1.78	1.83	.27	2.81	5.51	Pink	[Hatched]	300	T-300	2-15/16"
BBLU-065D		1/2"	1.75	1.78	3.00	.27	2.81	6.68					
BBLU-075D-2TC38	750 kcmil	3/8"	1.00	1.91	2.08	.27	2.88	5.93	Black	[Hatched]	24	T-24	3"
BBLU-075D		1/2"	1.75	1.91	3.00	.27	2.88	6.85					
BBLU-080D	800 kcmil	1/2"	1.75	1.97	3.00	.25	2.94	7.00	Orange	[Hatched]	25	T-25P	3-1/16"
BBLU-100D-2TC38	1000 kcmil	3/8"	1.00	2.17	2.08	.33	3.00	6.24	White	[Hatched]	27	T-27P	3-1/8"
BBLU-100D		1/2"	1.25	2.17	2.38	.33	3.00	6.50					
BBLU-100D1		1/2"	1.75	2.17	3.00	.33	3.00	7.16					
BBLU-150D	1500 kcmil	1/2"	1.37	2.68	2.50	.39	3.19	6.90	Green	[Hatched]	31	T-31P	3-5/16"
BBLU-150D1		1/2"	1.75	2.69	3.00	.39	3.19	7.44					
BBLU-200D	2000 kcmil	1/2"	1.50	3.08	2.63	.46	3.44	7.38	Brown	[Hatched]	34	-	3-9/16"
BBLU-200D1		1/2"	1.75	3.08	3.00	.47	3.44	7.78					

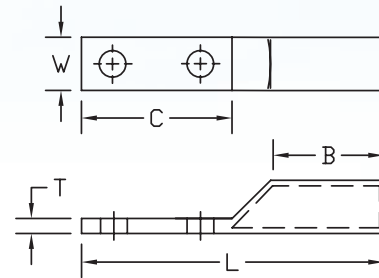
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Long Barrel - Two Hole Narrow Tongue with Closed Transition

Type BBLU-D-NT

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Closed transition protects end of cable from environmental conditions
- Two hole mounting pad assures maximum secureness
- **Narrow tongue design for limited space applications**
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLU-D-NT DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBLU-4D-2TC14E2-NT	4 AWG	1/4"	.75	.40	1.36	.11	1.13	2.74	Gray	TDM-250 or TDM-500	8	T-8	1-1/4"
BBLU-2D-2TC14E2-NT	2 AWG	1/4"	.75	.50	1.36	.13	1.25	2.89	White	TDM-250 or TDM-500	9	T-9	1-1/4"
BBLU-2D-2TC38-NT		3/8"	1.00	.50	1.83	.13	1.25	3.36					
BBLU-1D-2TC14E2-NT	1 AWG	1/4"	.75	.50	1.36	.15	1.38	3.08	Green	TDM-250 or TDM-500	11	T-11	1-1/2"
BBLU-1D-2TC38-NT		3/8"	1.00	.50	1.83	.15	1.38	3.55					
BBLU-1/0D-2TC14E2-NT	1/0 AWG	1/4"	.75	.62	1.36	.14	1.38	3.08	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"
BBLU-1/0D-2TC38-NT		3/8"	1.00	.62	1.83	.14	1.38	3.55					
BBLU-2/0D-2TC14E2-NT	2/0 AWG	1/4"	.75	.62	1.36	.16	1.50	3.20	Black	TDM-250 or TDM-500	13	T-13	1-5/8"
BBLU-2/0D-2TC38-NT		3/8"	1.00	.62	1.83	.16	1.50	3.67					
BBLU-3/0D-2TC14E2-NT	3/0 AWG	1/4"	.75	.60	1.36	.17	1.50	3.27	Orange	TDM-250 or TDM-500	14	T-14	1-5/8"
BBLU-3/0D-2TC38-NT		3/8"	1.00	.60	1.83	.17	1.50	3.74					
BBLU-4/0D-2TC14E2-NT	4/0 AWG	1/4"	.75	.70	1.36	.20	1.63	3.46	Purple	TDM-250 or TDM-500	15	T-15	1-3/4"
BBLU-4/0D-2TC38-NT		3/8"	1.00	.70	1.83	.20	1.63	3.93					
BBLU-025D-2TC14E2-NT	250 kcmil	1/4"	.75	.77	1.36	.21	1.63	3.58	Yellow	TDM-250 or TDM-500	16	T-16	1-3/4"
BBLU-025D-2TC38-NT		3/8"	1.00	.77	1.83	.21	1.63	4.05					
BBLU-030D-2TC14E2-NT	300 kcmil	1/4"	.75	.83	1.36	.22	2.00	3.95	White	TDM-500	17	T-17	2-1/8"
BBLU-030D-2TC38-NT		3/8"	1.00	.83	1.83	.22	2.00	4.42					
BBLU-035D-2TC14E2-NT	350 kcmil	1/4"	.75	.88	1.36	.25	2.00	4.02	Red	TDM-500	18	T-18	2-1/8"
BBLU-035D-2TC38-NT		3/8"	1.00	.88	1.83	.25	2.00	4.49					
BBLU-040D-2TC14E2-NT	400 kcmil	1/4"	.75	.96	1.36	.27	2.13	4.15	Red	TDM-500	19	T-19	2-1/4"
BBLU-040D-2TC38-NT		3/8"	1.00	.96	1.83	.27	2.13	4.62					
BBLU-050D-2TC38-NT	500 kcmil	3/8"	1.00	1.06	1.83	.26	2.25	4.76	Brown	TDM-500	20	T-20	2-3/8"
BBLU-050D-NT		1/2"	1.75	1.06	3.00	.26	2.25	5.91					
BBLU-060D-2TC38-NT	600 kcmil	3/8"	1.00	1.19	1.83	.39	2.69	5.39	Green	Hatched	22	T-22	2-13/16"
BBLU-060D-NT		1/2"	1.75	1.19	3.00	.39	2.69	6.56					
BBLU-065D-2TC38-NT	650 kcmil	3/8"	1.00	1.23	1.83	.40	2.81	5.51	Pink	Hatched	300	T-300	2-15/16"
BBLU-065D-NT		1/2"	1.75	1.23	3.00	.40	2.81	6.68					
BBLU-075D-2TC38-NT	750 kcmil	3/8"	1.00	1.30	2.08	.32	2.88	5.80	Black	Hatched	24	T-24	3"
BBLU-075D-NT		1/2"	1.75	1.30	3.00	.32	2.88	6.72					
BBLU-100D-2TC38-NT	1000 kcmil	3/8"	1.00	1.50	2.08	.38	3.00	6.18	White	Hatched	27	T-27P	3-1/8"
BBLU-100D1-NT		1/2"	1.75	1.50	3.00	.38	3.00	7.10					

• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

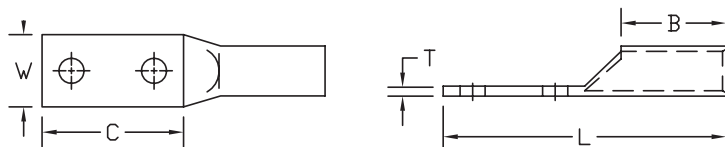
- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

COPPER COMPRESSION LUGS

Long Barrel - Two Hole Tongue with Inspection Window

Type BBLZ-D

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- Two hole mounting pad assures maximum secureness
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BBLZ-D

BBLZ-D DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH
BBLZ-8D-2TC14	8 AWG	1/4"	.63	.41	1.22	.08	.94	2.44	Red	TDM-250 or TDM-500	6	T-49	1-1/16"
BBLZ-8D-2TC14E2		1/4"	.75	.41	1.36	.08	.94	2.58					
BBLZ-8D-2TC38E3		3/8"	.81	.56	1.83	.06	.94	3.05					
BBLZ-8D-2TC38		3/8"	1.00	.60	1.75	.06	.75	2.63					
BBLZ-6D-2TC14	6 AWG	1/4"	.63	.41	1.22	.09	1.13	2.60	Blue	TDM-250 or TDM-500	7	T-7	1-1/4"
BBLZ-6D-2TC14E2		1/4"	.75	.41	1.36	.09	1.13	2.74					
BBLZ-6D-2TC38E2		3/8"	.75	.61	1.58	.06	1.13	2.96					
BBLZ-6D-2TC38E3		3/8"	.81	.61	1.83	.06	1.13	3.21					
BBLZ-6D-2TC38		3/8"	1.00	.60	1.74	.06	1.00	2.87					
BBLZ-6DN		1/2"	1.75	.70	2.77	.09	1.00	3.92					
BBLZ-5D-2TC14	5 AWG	1/4"	.63	.44	1.22	.08	1.13	2.60	Blue	TDM-250 or TDM-500	7	T-7	1-1/4"
BBLZ-5D-2TC14E2		1/4"	.75	.44	1.36	.08	1.13	2.74					
BBLZ-5D-2TC38E2		3/8"	.75	.61	1.58	.07	1.13	2.96					
BBLZ-5D-2TC38E3		3/8"	.81	.61	1.83	.07	1.13	3.21					
BBLZ-5D-2TC38		3/8"	1.00	.61	1.83	.07	1.13	3.21					
BBLZ-4D-2TC14	4 AWG	1/4"	.63	.50	1.22	.09	1.13	2.60	Gray	TDM-250 or TDM-500	8	T-8	1-1/4"
BBLZ-4D-2TC14E2		1/4"	.75	.50	1.36	.09	1.13	2.74					
BBLZ-4D-2TC38E2		3/8"	.75	.61	1.56	.08	1.13	2.96					
BBLZ-4D-2TC38E3		3/8"	.81	.61	1.83	.08	1.13	3.21					
BBLZ-4D-2TC38		3/8"	1.00	.61	1.81	.08	1.13	3.21					
BBLZ-4D1		1/2"	1.75	.94	3.00	.08	1.13	4.38					
BBLZ-3D-2TC14	3 AWG	1/4"	.63	.65	1.22	.20	1.13	2.60	White	TDM-250 or TDM-500	9	T-9	1-1/4"
BBLZ-3D-2TC14E2		1/4"	.75	.65	1.36	.20	1.13	2.74					
BBLZ-3D-2TC38E2		3/8"	.75	.65	1.58	.20	1.13	2.96					
BBLZ-3D-2TC38E3		3/8"	.81	.65	1.83	.20	1.13	3.21					
BBLZ-3D-2TC38		3/8"	1.00	.65	1.83	.20	1.13	3.21					

BBLZ-D DIMENSIONS & INSTALLATION TOOLING INFORMATION (continued)

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH	
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "L"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.		
BBLZ-2D-2TC14	2 AWG	1/4"	.63	.59	1.22	.11	1.25	2.75	Brown	TDM-250 or TDM-500	10	T-10	1-3/8"	
BBLZ-2D-2TC14E2		1/4"	.75	.59	1.36	.11	1.25	2.89						
BBLZ-2D-2TC38E2		3/8"	.75	.59	1.58	.11	1.25	3.11						
BBLZ-2D-2TC38E3		3/8"	.81	.59	1.83	.11	1.25	3.36						
BBLZ-2D-2TC38		3/8"	1.00	.59	1.83	.11	1.25	3.36						
BBLZ-2D-2NTC38		3/8"	1.75	.59	2.58	.11	1.25	4.11						
BBLZ-2D6	1 AWG	1/2"	1.75	.81	3.00	.09	1.25	4.53	Green	TDM-250 or TDM-500	11	T-11	1-1/2"	
BBLZ-1D-2TC14		1/4"	.63	.67	1.22	.10	1.38	2.94						
BBLZ-1D-2TC14E2		1/4"	.75	.67	1.36	.10	1.38	3.08						
BBLZ-1D-2TC38E2		3/8"	.75	.67	1.58	.10	1.38	3.30						
BBLZ-1D-2TC38E3		3/8"	.81	.67	1.83	.10	1.38	3.55						
BBLZ-1D-2TC38		3/8"	1.00	.67	1.83	.10	1.38	3.55						
BBLZ-1D2	1/2"	1.75	.70	2.77	.09	1.20	4.12	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"		
BBLZ-1/0D-2TC14	1/4"	.63	.74	1.22	.11	1.38	2.94							
BBLZ-1/0D-2TC14E2	1/4"	.75	.74	1.36	.11	1.38	3.08							
BBLZ-1/0D-2TC38E2	3/8"	.75	.74	1.58	.11	1.38	3.30							
BBLZ-1/0D-2TC38E3	3/8"	.81	.74	1.83	.11	1.38	3.55							
BBLZ-1/0D-2TC38	3/8"	1.00	.74	1.83	.11	1.38	3.55							
BBLZ-1/0D-2NTC38	3/8"	1.75	.74	2.58	.11	1.38	4.30	Black	TDM-250 or TDM-500	13	T-13	1-5/8"		
BBLZ-1/0D3	1/2"	1.75	.81	3.00	.10	1.38	4.63							
BBLZ-2/0D-2TC14	1/4"	.63	.82	1.22	.12	1.50	3.06							
BBLZ-2/0D-2TC14E2	1/4"	.75	.82	1.36	.12	1.50	3.20							
BBLZ-2/0D-2TC38E2	3/8"	.75	.82	1.58	.12	1.50	3.42							
BBLZ-2/0D-2TC38E3	3/8"	.81	.82	1.83	.12	1.50	3.67							
BBLZ-2/0D-2TC38	3/8"	1.00	.82	1.83	.12	1.50	3.67	Orange	TDM-250 or TDM-500	14	T-14	1-5/8"		
BBLZ-2/0D	1/2"	1.75	.82	3.00	.12	1.50	4.84							
BBLZ-3/0D-2TC14	1/4"	.63	.89	1.22	.13	1.50	3.13							
BBLZ-3/0D-2TC14E2	1/4"	.75	.89	1.36	.13	1.50	3.27							
BBLZ-3/0D-2TC38E2	3/8"	.75	.89	1.58	.13	1.50	3.49							
BBLZ-3/0D-2TC38E3	3/8"	.81	.89	1.83	.13	1.50	3.74							
BBLZ-3/0D-2TC38	3/8"	1.00	.89	1.83	.13	1.50	3.74	Purple	TDM-250 or TDM-500	15	T-15	1-3/4"		
BBLZ-3/0D	1/2"	1.75	.89	3.00	.13	1.50	4.91							
BBLZ-4/0D-2TC14	1/4"	.63	1.00	1.22	.14	1.63	3.32							
BBLZ-4/0D-2TC14E2	1/4"	.75	1.00	1.36	.14	1.63	3.46							
BBLZ-4/0D-2TC716E2	7/16"	.75	1.00	1.83	.14	1.63	3.93							
BBLZ-4/0D-2TC38E2	3/8"	.75	1.00	1.58	.14	1.63	3.68							
BBLZ-4/0D-2TC38E3	3/8"	.81	1.00	1.83	.14	1.63	3.93	Yellow	TDM-250 or TDM-500	16	T-16	1-3/4"		
BBLZ-4/0D-2TC38	3/8"	1.00	1.00	1.83	.14	1.63	3.93							
BBLZ-4/0D-2NTC38	3/8"	1.75	1.00	2.58	.14	1.63	4.68							
BBLZ-4/0D	1/2"	1.75	1.00	3.00	.14	1.63	5.10							
BBLZ-025D-2TC14E2	250 kcmil	1/4"	.75	1.09	1.36	.16	1.63						3.58	
BBLZ-025D-2TC38E3	3/8"	.81	1.09	1.83	.16	1.63	4.05							
BBLZ-025D	1/2"	1.75	1.09	3.00	.16	1.63	5.13	White	TDM-500	17	T-17	2-1/8"		
BBLZ-030D-2TC14E2	300 kcmil	1/4"	.75	1.19	1.36	.16	2.00						3.95	
BBLZ-030D-2TC38	3/8"	1.00	1.19	1.83	.16	2.00	4.42							
BBLZ-030D	350 kcmil	1/2"	1.75	1.19	3.00	.16	2.00	5.59	Red	TDM-500	18	T-18	2-1/8"	
BBLZ-035D-2TC14E2		1/4"	.75	1.28	1.36	.17	2.00	4.02						
BBLZ-035D-2TC38		3/8"	1.00	1.28	1.83	.17	2.00	4.49						
BBLZ-035D	1/2"	1.75	1.28	3.00	.17	2.00	5.66	Blue	TDM-500	19	T-19	2-1/4"		
BBLZ-040D-2TC14E2	400 kcmil	1/4"	.75	1.39	1.36	.19	2.13						4.15	
BBLZ-040D-2TC38	3/8"	1.00	1.39	1.83	.19	2.13	4.62							
BBLZ-040D	1/2"	1.75	1.39	3.00	.19	2.13	5.79	Brown	TDM-500	20	T-20	2-3/8"		
BBLZ-050D-2TC14E2	500 kcmil	1/4"	.75	1.53	1.36	.21	2.25						4.39	
BBLZ-050D-2TC38	3/8"	1.00	1.53	1.83	.21	2.25	4.86							
BBLZ-050D	600 kcmil	1/2"	1.75	1.53	3.00	.21	2.25	6.03	Green	TDM-500	22	T-22	2-13/16"	
BBLZ-060D-2TC38		3/8"	1.00	1.72	1.83	.27	2.69	5.39						
BBLZ-060D		1/2"	1.75	1.72	3.00	.27	2.69	6.56						
BBLZ-065D-2TC38	650 kcmil	3/8"	1.00	1.78	1.83	.27	2.81	5.51	Pink	TDM-500	300	T-300	2-15/16"	
BBLZ-065D		1/2"	1.75	1.78	3.00	.27	2.81	6.68						
BBLZ-075D-2TC38		3/8"	1.00	1.91	1.83	.27	2.88	5.65						
BBLZ-075D	750 kcmil	1/2"	1.75	1.91	3.00	.27	2.88	6.85	Black	TDM-500	24	T-24	3"	
BBLZ-080D		800 kcmil	1/2"	1.75	1.97	3.00	.25	2.94						7.00
BBLZ-100D-2TC38		1000 kcmil	3/8"	1.00	2.17	1.83	.33	3.00						5.96
BBLZ-100D1	1/2"		1.75	2.17	3.00	.33	3.00	7.16	White	TDM-500	27	T-27P	3-1/8"	
BBLZ-150D1	1500 kcmil	1/2"	1.75	2.69	3.00	.39	3.19	7.44						
BBLZ-200D1	2000 kcmil	1/2"	1.75	3.08	3.00	.47	3.44	7.78	Brown	TDM-500	34	-	3-9/16"	

• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

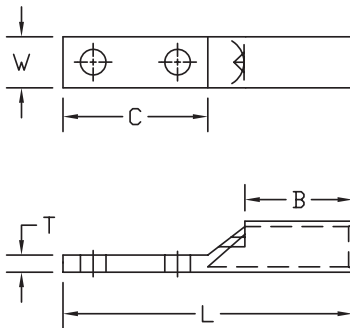
- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

COMPRESSION CONNECTORS

Long Barrel - Two Hole Narrow Tongue with Inspection Window

Type BBLZ-D-NT





- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- **Narrow tongue design for limited space applications**
- Two hole mounting pad assures maximum secureness
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLZ-D-NT

See table for dimensions and installation tooling information

BBLZ-D-NT DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBLZ-4D-2TC14E2-NT	4 AWG	1/4"	.75	.40	1.36	.11	1.13	2.74	Gray	TDM-250 or TDM-500	8	T-8	1-1/4"
BBLZ-2D-2TC14E2-NT	2 AWG	1/4"	.75	.50	1.36	.13	1.25	2.89	Brown	TDM-250 or TDM-500	10	T-10	1-3/8"
BBLZ-2D-2TC38-NT		3/8"	1.00	.50	1.83	.13	1.25	3.36					
BBLZ-1D-2TC14E2-NT	1 AWG	1/4"	.75	.50	1.36	.15	1.38	3.08	Green	TDM-250 or TDM-500	11	T-11	1-1/2"
BBLZ-1D-2TC38-NT		3/8"	1.00	.50	1.83	.15	1.38	3.55					
BBLZ-1/0D-2TC14E2-NT	1/0 AWG	1/4"	.75	.62	1.36	.14	1.38	3.08	Pink	TDM-250 or TDM-500	12	T-12	1-1/2"
BBLZ-1/0D-2TC38-NT		3/8"	1.00	.62	1.83	.14	1.38	3.55					
BBLZ-2/0D-2TC14E2-NT	2/0 AWG	1/4"	.75	.62	1.36	.16	1.50	3.20	Black	TDM-250 or TDM-500	13	T-13	1-5/8"
BBLZ-2/0D-2TC38-NT		3/8"	1.00	.62	1.83	.16	1.50	3.67					
BBLZ-3/0D-2TC14E2-NT	3/0 AWG	1/4"	.75	.64	1.36	.17	1.50	3.27	Orange	TDM-250 or TDM-500	14	T-14	1-5/8"
BBLZ-3/0D-2TC38-NT		3/8"	1.00	.64	1.83	.17	1.50	3.74					
BBLZ-4/0D-2TC14E2-NT	4/0 AWG	1/4"	.75	.71	1.36	.20	1.63	3.46	Purple	TDM-250 or TDM-500	15	T-15	1-3/4"
BBLZ-4/0D-2TC38-NT		3/8"	1.00	.71	1.83	.20	1.63	3.93					
BBLZ-025D-2TC14E2-NT	250 kcmil	1/4"	.75	.77	1.36	.21	1.63	3.58	Yellow	TDM-250 or TDM-500	16	T-16	1-3/4"
BBLZ-025D-2TC38-NT		3/8"	1.00	.77	1.83	.21	1.63	4.05					
BBLZ-030D-2TC14E2-NT	300 kcmil	1/4"	.75	.83	1.36	.22	2.00	3.95	White	TDM-500	17	T-17	2-1/8"
BBLZ-030D-2TC38-NT		3/8"	1.00	.83	1.83	.22	2.00	4.42					
BBLZ-035D-2TC14E2-NT	350 kcmil	1/4"	.75	.88	1.36	.25	2.00	4.02	Red	TDM-500	18	T-18	2-1/8"
BBLZ-035D-2TC38-NT		3/8"	1.00	.88	1.83	.25	2.00	4.49					
BBLZ-040D-2TC14E2-NT	400 kcmil	1/4"	.75	.96	1.36	.27	2.13	4.15	Blue	TDM-500	19	T-19	2-1/4"
BBLZ-040D-2TC38-NT		3/8"	1.00	.96	1.83	.27	2.13	4.62					
BBLZ-050D-2TC38-NT	500 kcmil	3/8"	1.00	1.06	1.83	.26	2.25	4.86	Brown	TDM-500	20	T-20	2-3/8"
BBLZ-050D-NT		1/2"	1.75	1.06	3.00	.26	2.25	5.91					
BBLZ-060D-2TC38-NT	600 kcmil	3/8"	1.00	1.19	1.83	.39	2.69	5.39	Green		22	T-22	2-13-16"
BBLZ-060D-NT		1/2"	1.75	1.19	3.00	.39	2.69	6.56					
BBLZ-065D-2TC38-NT	650 kcmil	3/8"	1.00	1.23	1.83	.40	2.81	5.48	Pink		300	T-300	2-15-16"
BBLZ-065D-NT		1/2"	1.75	1.23	3.00	.40	2.81	6.68					
BBLZ-075D-2TC38-NT	750 kcmil	3/8"	1.00	1.30	2.08	.32	2.88	5.80	Black		24	T-24	3"
BBLZ-075D-NT		1/2"	1.75	1.30	3.00	.32	2.88	6.85					
BBLZ-100D-2TC38-NT	1000 kcmil	3/8"	1.00	1.50	2.08	.48	3.00	6.24	White		27	T-27P	3-1/8"
BBLZ-100D1-NT		1/2"	1.75	1.50	3.00	.48	3.00	7.16					

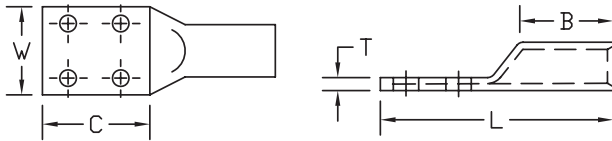
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

COPPER COMPRESSION LUGS

Long Barrel - Four Hole Tongue with Closed Transition Type BBLU-FN

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Closed transition protects end of cable from environmental conditions
- **Four hole NEMA mounting pad assures maximum secureness and surface contact area**
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed
- **Connectors are UL listed with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLU-FN DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING			WIRE STRIP LENGTH
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBLU-100-FN	1000 kcmil	1/2"	1.75	2.88	3.00	.33	3.00	7.06	White	27	T-27P	3-1/8"
BBLU-125-FN	1250 kcmil	1/2"	1.75	3.00	3.00	.30	3.19	7.44	Yellow	29	-	3-5/16"
BBLU-150-FN	1500 kcmil	1/2"	1.75	3.00	3.00	.39	3.06	7.41	Green	31	T-31P	3-3/16"
BBLU-175-FN	1750 kcmil	1/2"	1.75	2.91	3.00	.39	3.09	7.88	Gray	33	-	3-3/16"
BBLU-200-FN	2000 kcmil	1/2"	1.75	3.08	3.00	.47	3.44	7.75	Brown	34	-	3-9/16"

• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

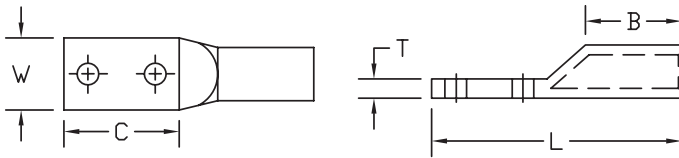
Heavy Duty Long Barrel - Two Hole Tongue with Closed Transition

Type HBBLU-D

- Manufactured from heavy wall, high conductivity seamless copper tubing
- **Heavy wall tubing provides additional heat dissipation during heavy duty loads**
- Beveled entry for easy cable insertion
- Closed transition protects end of cable from environmental conditions
- Two hole mounting pad assures maximum secureness
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- For tin plating suffix catalog number with "TN"



RoHS
COMPLIANT



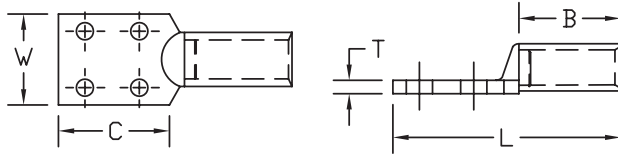
HBBLU-D DIMENSIONS & INDEX REFERENCE

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						BURNDY DIE INDEX NO.	WIRE STRIP LENGTH
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"		
HBBLU-1/0D	1/0 AWG	1/2"	1.75	.84	3.13	.22	1.63	5.38	165, 287	1-3/4"
HBBLU-2/0D	2/0 AWG	1/2"	1.75	.97	3.13	.25	1.75	5.25	166, 206	1-7/8"
HBBLU-3/0D	3/0 AWG	1/2"	1.75	1.06	3.19	.28	1.63	5.31	167, 207, 211, 256	1-3/4"
HBBLU-4/0D	4/0 AWG	1/2"	1.75	1.22	3.13	.31	1.63	5.25	168, 208	1-3/4"
HBBLU-025D	250 kcmil	1/2"	1.75	1.28	3.13	.34	2.00	5.56	169	2-1/8"
HBBLU-030D	300 kcmil	1/2"	1.75	1.41	3.25	.41	1.75	5.69	170	1-7/8"
HBBLU-035D	350 kcmil	1/2"	1.75	1.59	3.13	.42	2.88	6.50	267	3"
HBBLU-040D	400 kcmil	1/2"	1.75	1.75	3.00	.47	2.75	6.75	209	2-7/8"
HBBLU-050D	500 kcmil	1/2"	1.75	1.88	3.00	.50	2.50	6.50	210	2-5/8"
HBBLU-060D	600 kcmil	1/2"	1.75	2.03	3.00	.63	2.38	6.38	576	2-1/2"
HBBLU-075D	750 kcmil	1/2"	1.75	2.27	3.25	.64	3.00	7.25	627	3-1/8"
HBBLU-100D	1000 kcmil	1/2"	1.75	2.75	3.00	.75	3.25	7.50	345	3-3/8"

COPPER COMPRESSION LUGS

Heavy Duty Long Barrel - Four Hole Tongue with Closed Transition Type HBLTU-FN

- Manufactured from heavy wall, high conductivity, seamless copper tubing and copper alloy cast pads
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Closed transition protects end of cable from environmental conditions
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- **Four hole NEMA mounting pad assures maximum secureness and surface contact area**

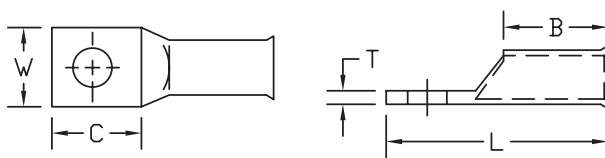


HBLTU-FN DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						BURNDY HYDRAULIC INSTALLATION TOOLING / DIE NO.						WIRE STRIP LENGTH	
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	DIE INDEX NO.	Y35	Y39	Y750	Y46	Y48		Y60BHU
HBLTU-050-FN	500 kcmil	1/2"	1.75	3.00	3.25	.38	2.88	6.88	210	U210	U210	U210	U210	C210	L210	1"
HBLTU-075-FN	750 kcmil	1/2"	1.75	3.00	3.25	.50	3.50	7.38	627	-	-	-	-	C627	L627	1-3/16"
HBLTU-080-FN	800 kcmil	1/2"	1.75	3.00	3.25	.50	3.50	7.38	627	-	-	-	-	C627	L627	1-3/16"
HBLTU-100-FN	1000 kcmil	1/2"	1.75	3.00	3.00	.50	3.81	7.94	345	-	-	-	-	C345	L345	1-1/4"
HBLTU-150-FN	1500 kcmil	1/2"	1.75	3.00	3.25	.50	3.88	8.25	728	-	-	-	-	-	L728	1-5/16"

Standard Flared Barrel - One Hole Tongue with Inspection Window Type BLU-S-FL

- Suitable for use with Class B, C, I, K, H, G, M and DLO conductors ♦
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Inspection window ensures full cable insertion
- Flared barrel entry provides easy cable insertion for fine stranded flexible cables and minimizes strain during flexing and movement
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- Connectors are UL listed and CSA certified with Penn-Union, Burndy T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BLU-S-FL DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING				
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH
BLU-3S2-FL	3 AWG	5/16"	.53	.75	.09	.88	1.86	White	TDM-250XF	9	T-9	1"
BLU-1S5-FL	1 AWG	5/16"	.67	.75	.11	.88	1.86	Green		11	T-11	1"
BLU-1/0S1-FL	1/0 AWG	5/16"	.73	.87	.12	.88	2.05	Pink		12	T-12	1"
BLU-2/0S21-FL	2/0 AWG	5/16"	.81	.81	.12	.94	2.06	Black		13	T-13	1-1/16"
BLU-2/0S1-FL		3/8"	.81	.87	.12	.94	2.11					
BLU-3/0S1-FL	3/0 AWG	1/2"	.89	1.12	.12	1.00	2.50	Orange		14	T-14	1-1/8"
BLU-4/0S1-FL	4/0 AWG	1/2"	1.00	1.09	.14	1.00	2.50	Purple		15	T-15	1-1/8"
BLU-030S-FL	300 kcmil	1/2"	1.19	1.09	.16	1.06	2.75	White		17	T-17	1-3/16"
BLU-035S-FL	350 kcmil	1/2"	1.28	1.16	.17	1.13	2.91	Red		18	T-18	1-1/4"
BLU-040S-FL	400 kcmil	5/8"	1.39	1.44	.19	1.19	3.31	Blue		19	T-19	1-5/16"
BLU-050S-FL	500 kcmil	5/8"	1.53	1.44	.21	1.38	3.63	Brown		20	T-20	1-1/2"
BLU-060S-FL	600 kcmil	5/8"	1.72	1.75	.27	1.38	3.97	Green		22	T-22	1-1/2"
BLU-065S4-FL	650 kcmil	5/8"	1.78	1.75	.27	1.38	3.97	Pink		300	T-300	1-5/8"
BLU-075S-FL	750 kcmil	5/8"	1.91	1.75	.27	1.63	4.31	Black		24	T-24	1-3/4"
BLU-100S-FL	1000 kcmil	5/8"	2.17	1.75	.33	1.88	4.75	White		27	T-27P	2"
BLU-150S-FL	1500 kcmil	3/4"	2.69	2.19	.39	2.00	5.47	Green	31	T-31P	2-1/8"	

♦ For additional wire size recommendations please refer to page 73

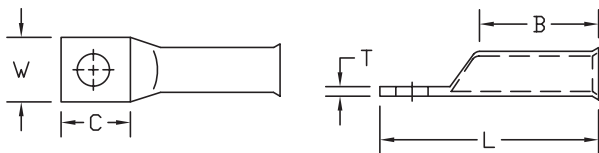
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

COPPER COMPRESSION LUGS

Long Flared Barrel - One Hole Tongue with Closed Transition Type BBLU-S-FL

- Suitable for use with Class B, C, I, K, H, G, M and DLO conductors ♦
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Flared barrel entry provides easy cable insertion for fine stranded flexible cables and minimizes strain during flexing and movement
- Closed transition protects end of cable from environmental conditions
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- Connectors are UL listed and CSA certified with Penn-Union, Burndy T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BBLU-S-FL DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING			WIRE STRIP LENGTH	
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOL	BURNDY DIE INDEX NO.		PENN-UNION DIE CATALOG NO.
BBLU-3S1-FL	3 AWG	5/16"	.53	.75	.09	1.13	2.16	White	TDM-250XF	9	T-9	1-1/4"
BBLU-1S-FL	1 AWG	5/16"	.67	.75	.11	1.34	2.36	Green		11	T-11	1"
BBLU-1/0S-FL	1/0 AWG	5/16"	.73	.75	.13	1.34	2.44	Pink		12	T-12	1-1/2"
BBLU-2/0S-FL	2/0 AWG	3/8"	.81	.87	.13	1.50	2.72	Black		13	T-13	1-5/8"
BBLU-3/0S-FL	3/0 AWG	1/2"	.89	1.25	.13	1.50	3.12	Orange		14	T-14	1-5/8"
BBLU-4/0S-FL	4/0 kcmil	1/2"	1.00	1.25	.14	1.63	3.31	Purple		15	T-15	1-3/4"
BBLU-030S-FL	300 kcmil	1/2"	1.19	1.25	.16	2.00	3.81	White	Hatched	17	T-17	2-1/8"
BBLU-035S-FL	350 kcmil	1/2"	1.28	1.25	.17	2.00	3.84	Red		18	T-18	2-1/8"
BBLU-040S-FL	400 kcmil	5/8"	1.39	1.50	.19	2.13	4.31	Blue		19	T-19	2-1/4"
BBLU-050S-FL	500 kcmil	5/8"	1.53	1.47	.21	2.31	4.56	Brown		20	T-20	2-3/8"
BBLU-060S-FL	600 kcmil	5/8"	1.72	1.75	.27	2.69	5.34	Green		22	T-22	2-3/16"
BBLU-065S1-FL	650 kcmil	5/8"	1.78	1.75	.27	2.81	5.41	Pink		300	T-300	2-15/16"
BBLU-075S-FL	750 kcmil	5/8"	1.91	1.75	.27	2.88	5.56	Black		24	T-24	3"
BBLU-100S-FL	1000 kcmil	5/8"	2.17	1.75	.33	3.00	5.88	White		27	T-27P	3-1/8"
BBLU-150S-FL	1500 kcmil	3/4"	2.69	2.13	.39	3.19	6.53	Green		31	T-31P	3-5/16"

♦ For additional wire size recommendations please refer to page 73

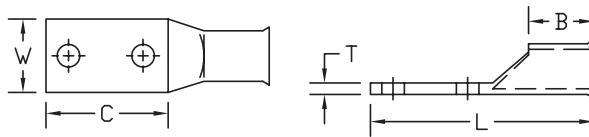
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Standard Flared Barrel - Two Hole Tongue with Inspection Window

Type BLU-D-FL

- Suitable for use with Class B, C, I, K, H, G, M and DLO conductors ♦
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Flared barrel entry provides easy cable insertion for fine stranded flexible cables and minimizes strain during flexing and movement
- Two hole mounting pad assures maximum secureness
- Inspection window ensures full cable insertion
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- Connectors are UL listed and CSA certified with Penn-Union, Burndy T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BLU-D-FL DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOL	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH
BLU-3D-FL	3 AWG	1/4"	.63	.53	1.19	.09	.88	2.29	White	TDM-250XF	9	T-9	1"
BLU-1D4-FL	1 AWG	5/16"	.88	.67	1.63	.10	.94	2.79	Green		11	T-11	1-1/16"
BLU-1/0D-FL	1/0 AWG	5/16"	.88	.74	1.63	.11	.88	2.81	Pink		12	T-12	1"
BLU-2/0D4-FL	2/0 AWG	3/8"	1.00	.82	1.83	.12	.94	3.08	Black		13	T-13	1-1/16"
BLU-3/0D-FL	3/0 AWG	1/2"	1.75	.89	2.88	.13	1.00	4.25	Orange		14	T-14	1-1/8"
BLU-4/0D-FL	4/0 AWG	1/2"	1.75	1.00	2.88	.14	1.00	4.31	Purple		15	T-15	1-1/8"
BLU-030D-FL	300 kcmil	1/2"	1.75	1.19	2.88	.16	1.07	4.50	White	Hatched	17	T-17	1-3/16"
BLU-035D-FL	350 kcmil	1/2"	1.75	1.28	2.88	.17	1.13	4.63	Red		18	T-18	1-1/4"
BLU-040D-FL	400 kcmil	1/2"	1.75	1.39	2.88	.19	1.19	4.75	Blue		19	T-19	1-5/16"
BLU-050D-FL	500 kcmil	1/2"	1.75	1.53	2.88	.21	1.38	5.00	Brown		20	T-20	1-1/2"
BLU-060D-FL	600 kcmil	1/2"	1.75	1.72	2.88	.27	1.38	5.09	Green		22	T-22	1-1/2"
BLU-065D-FL	650 kcmil	1/2"	1.75	1.78	2.88	.27	1.38	5.09	Pink		300	T-300	1-1/2"
BLU-065D-2NTC38-FL		3/8"	1.75	1.78	2.88	.27	1.38	5.09					
BLU-075D-FL	750 kcmil	1/2"	1.75	1.91	2.88	.27	1.63	5.44	Black		24	T-24	1-3/4"
BLU-100D-FL	1000 kcmil	1/2"	1.75	2.17	2.88	.33	1.88	5.87	White		27	T-27P	2"
BLU-150D-FL	1500 kcmil	1/2"	1.75	2.69	2.87	.39	2.00	6.09	Green		31	T-31P	2-1/8"

♦ For additional wire size recommendations please refer to page 73

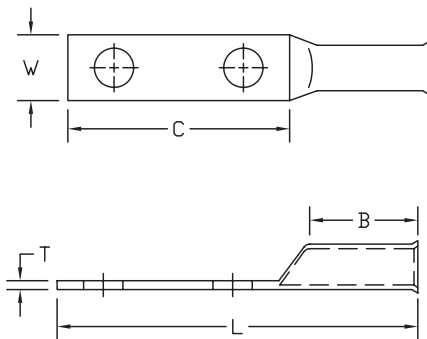
• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Long Flared Barrel - Two Hole Tongue with Closed Transition

Type BBLU-D-FL

- Suitable for use with Class B, C, I, K, H, G, M and DLO conductors ♦
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- **Flared barrel entry provides easy cable insertion for fine stranded flexible cables and minimizes strain during flexing and movement**
- Closed transition protects end of cable from environmental conditions
- Two hole mounting pad assures maximum secureness
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV
- 45° and 90° angles are UL listed and CSA certified
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy T&B, Huskie, Greenlee and Versa-Crimp® style tooling**



BBLU-D-FL

See table for dimensions and installation tooling information

BBLU-D-FL DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOL	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBLU-3D-FL	3 AWG	5/16"	.88	.53	1.63	.09	1.13	3.03	White	TDM-250XF	9	T-9	1-1/4"
BBLU-1D-FL	1 AWG	5/16"	.88	.67	1.63	.11	1.38	3.38	Green		11	T-11	1-1/2"
BBLU-1/0D-FL	1/0 AWG	5/16"	.88	.73	1.59	.13	1.38	3.31	Pink		12	T-12	1-1/2"
BBLU-2/0D-FL	2/0 AWG	1/2"	1.75	.82	3.00	.12	1.50	4.84	Black		13	T-13	1-5/8"
BBLU-3/0D-FL	3/0 AWG	1/2"	1.75	.89	3.00	.13	1.50	4.91	Orange		14	T-14	1-5/8"
BBLU-4/0D-FL	4/0 AWG	1/2"	1.75	1.00	3.00	.14	1.63	5.10	Purple		15	T-15	1-3/4"
BBLU-030D-FL	300 kcmil	1/2"	1.75	1.19	3.00	.16	2.00	5.59	White		17	T-17	2-1/8"
BBLU-035D-FL	350 kcmil	1/2"	1.75	1.28	3.00	.17	2.00	5.66	Red		18	T-18	2-1/8"
BBLU-040D-FL	400 kcmil	1/2"	1.75	1.39	3.00	.19	2.13	5.79	Blue		19	T-19	2-1/4"
BBLU-050D-FL	500 kcmil	1/2"	1.75	1.53	3.00	.21	2.25	6.03	Brown		20	T-20	2-3/8"
BBLU-060D-FL	600 kcmil	1/2"	1.75	1.72	3.00	.27	2.69	6.56	Green		22	T-22	2-3/4"
BBLU-065D-FL	650 kcmil	1/2"	1.75	1.78	3.00	.27	2.81	6.68	Pink		300	T-300	2-15/16"
BBLU-075D-FL	750 kcmil	1/2"	1.75	1.91	3.00	.27	2.88	6.85	Black		24	T-24	3"
BBLU-080D-FL	800 kcmil	1/2"	1.75	1.97	3.00	.25	2.94	7.00	Orange		25	T-25P	3-1/16"
BBLU-100D1-FL	1000 kcmil	1/2"	1.75	2.17	3.00	.33	3.00	7.16	White		27	T-27P	3-1/8"
BBLU-100D3-FL		5/8"	1.75	2.17	3.00	.33	3.00	7.16					
BBLU-150D1-FL	1500 kcmil	1/2"	1.75	2.69	3.00	.39	3.19	7.44	Green		31	T-31P	3-5/16"

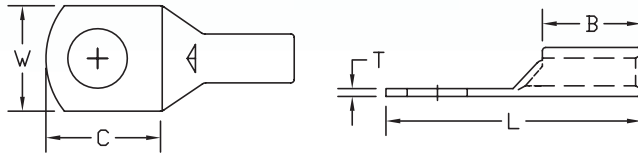
◆ For additional wire size recommendations please refer to page 73

• For 45° or 90° BENT TONGUES add suffix "-45" for 45 deg. or "-90" for 90 deg. to the catalog number

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Standard Barrel - One Hole Rounded Tongue with Inspection Window Type BLY

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Inspection window to ensure full cable insertion
- Rounded tongue accommodates full washer clearance and adjustable lug orientation
- Connectors are suitable for voltages up to 35 KV



BLY DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING							WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	MECHANICAL		HYDRAULIC		T&B			
								BURNDY	PENN-UNION DIELESS MECHANICAL TOOL	DIE INDEX	BURNDY Y35+ Y39	DIE CAT. NO.	DIE MS90485-		
BLY10-T7 • +	10 Str.	4-6	.32	.40	.08	.44	.96	Y8MRBI MR8G98	-	-	-	-	-	-	7/16"
BLY10-L36 • +	12 Sol.	8-#10	.31	.36	.08	.38	.80	Y10D Y14MV	-	-	-	-	-	-	7/16"
BLY8C-L14	8 Aircraft AN 8 8 AWG	8	.42	.47	.08	.37	1.15	Non-Ratchet: MY29-11	TDM-250XF	38	UV8L Nest Y34PLA Indenter (1) Crimp	11781M	-8	1/2"	
BLY8C-L		#10	.42	.47	.08	.37	1.15								
BLY8C-L1		1/4"	.42	.51	.08	.37	1.22								
BLY8C-L2		5/16"	.59	.71	.08	.50	1.30								
BLY8C-L3		3/8"	.59	.71	.08	.50	1.30								
BLY8C-L4		1/2"	.83	.88	.08	.50	1.55								
BLY6C-L1	6 Aircraft AN 6 6 AWG	#10	.47	.54	.08	.39	1.31	Non-Ratchet: MY29-11	TDM-250XF	39	UV6L Nest Y34PLA Indenter (1) Crimp	11782M	-6	1/2"	
BLY6C-L		1/4"	.47	.54	.08	.39	1.31								
BLY6C-L4		5/16"	.62	.67	.08	.45	1.44								
BLY6C-L2		3/8"	.62	.67	.08	.50	1.44								
BLY6C-L10		1/2"	.83	.88	.08	.50	1.68								
BLY4C-L3	4 Aircraft AN 4 4 AWG	#10	.63	.58	.10	.45	1.40	Non-Ratchet: MY29-11	TDM-250XF	40	UV4L Nest Y34PLA Indenter (1) Crimp	11783M	-4	1/2"	
BLY4C-L		1/4"	.63	.58	.10	.45	1.40								
BLY4C-L4		5/16"	.63	.66	.10	.50	1.49								
BLY4C-L2		3/8"	.65	.66	.10	.50	1.49								
BLY4C-L5		1/2"	.83	.88	.10	.50	1.72								
BLY2C-L3	2 Aircraft AN 2 2 AWG	#10	.71	.75	.11	.63	1.73	Non-Ratchet: MY29-11	TDM-250XF	41	UV2L Nest Y34PLA Indenter (1) Crimp	11784M	-2	5/8"	
BLY2C-L1		1/4"	.71	.75	.11	.63	1.73								
BLY2C-L2		5/16"	.71	.75	.11	.63	1.73								
BLY2C-L		3/8"	.71	.75	.11	.63	1.73								
BLY2C-L4		1/2"	.80	.90	.11	.63	1.90								

BLY DIMENSIONS & INSTALLATION TOOLING INFORMATION (CONTINUED)

CATALOG NUMBER	COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					INSTALLATION TOOLING						WIRE STRIP LENGTH
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	MECHANICAL		HYDRAULIC		T&B		
								BURNDY	PENN-UNION DIELESS MECHANICAL TOOL	DIE INDEX	BURNDY Y35+ Y39	DIE MS90485- DIE CAT. NO.	DIE MS90485-	
BLY1C-L6	1 Aircraft AN 1 1 AWG	#10	.77	.72	.13	.62	1.67	Non-Ratchet: MY29-11	TDM-250XF	42	UV1CL Nest Y34PLA Indentor (1) Crimp	11785M	-1	5/8"
BLY1C-L1		1/4"	.77	.83	.13	.62	1.85							
BLY1C-L2		5/16"	.77	.83	.13	.62	1.85							
BLY1C-L		3/8"	.77	.83	.13	.62	1.85							
BLY1C-L3		1/2"	.77	.95	.13	.62	1.98							
BLY1C-L4	7/16"	.77	.83	.13	.62	1.85								
BLY25-L1	1/0 Aircraft AN 1/0 1/0 AWG	1/4"	.85	.93	.13	.68	2.05	Non-Ratchet: MY29-11	TDM-250XF	43	UV25L Nest Y34PLA Indentor (1) Crimp	11786M	-01	11/16"
BLY25-L2		5/16"	.85	.93	.13	.68	2.05							
BLY25-L		3/8"	.85	.93	.13	.68	2.05							
BLY25-L3		1/2"	.85	1.01	.13	.68	2.09							
BLY25-L4		5/8"	.90	1.16	.13	.68	2.31							
BLY25-L6	7/16"	.85	.93	.13	.68	2.05								
BLY26-L1	2/0 Aircraft AN 2/0 2/0 AWG	1/4"	.94	1.05	.13	.81	2.32	Non-Ratchet: MY29-11	TDM-250XF	-	-	11787M	-02	13/16"
BLY26-L2		5/16"	.94	1.05	.13	.81	2.32							
BLY26-L		3/8"	.94	1.05	.13	.81	2.32							
BLY26-L3		1/2"	.94	1.05	.13	.81	2.32							
BLY26-L12		5/8"	.94	1.28	.13	.81	2.54							
BLY26-L4	7/16"	.94	1.05	.13	.81	2.32								
BLY27-L	3/0 Aircraft AN 3/0 3/0 AWG	3/8"	1.05	1.09	.14	.81	2.46	Non-Ratchet: MY29-11	TDM-250XF	-	-	11788M	-03	13/16"
BLY27-L1		1/2"	1.05	1.09	.14	.81	2.46							
BLY27-15		5/8"	1.05	1.28	.14	.81	2.63							
BLY27-L3 +		1/4"	1.05	1.09	.14	.81	2.46							
BLY27-L2		5/16"	1.05	1.09	.14	.81	2.46							
BLY27-6	7/16"	1.05	1.09	.14	.81	2.63								
BLY28-L	4/0 Aircraft AN 4/0 4/0 AWG	3/8"	1.15	1.28	.15	.87	2.76	Non-Ratchet: MY29-11	TDM-250XF	-	-	11789M	-04	7/8"
BLY28-L12		1/2"	1.15	1.28	.15	.87	2.76							
BLY28-L13		5/8"	1.15	1.28	.15	.87	2.76							
BLY28-L14		3/4"	1.27	1.44	.15	.87	2.96							
BLY28-L1 +		1/4"	1.15	1.28	.15	.87	2.76							
BLY28-L2		5/16"	1.15	1.28	.15	.87	2.76							
BLY28-L6		7/16"	1.15	1.28	.15	.87	2.76							
BLY28-L15		7/8"	1.27	1.44	.15	.87	2.96							

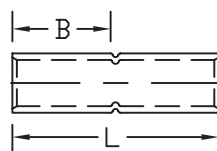
• Not UL listed

+ Not CSA certified

Crimp Splice - Standard Barrel

Type BCU

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Positive cable stops to ensure proper insertion of conductors to full depth
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV if taped according to accepted practices, 5 KV is the maximum voltage level in all bare splice applications
- Connectors are UL listed and CSA certified with Penn-Union, Burndy T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BCU DIMENSIONS & INSTALLATION TOOLING INFORMATION

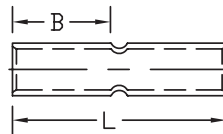
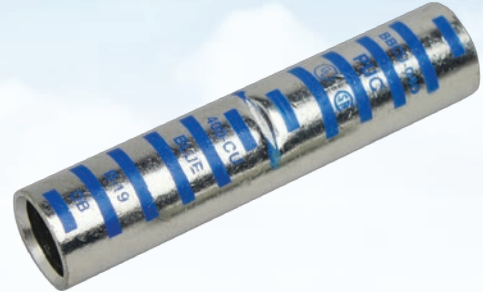
CATALOG NUMBER	COPPER CONDUCTOR SIZE	FIGURE DIMENSIONS (IN.)		COLOR CODE	INSTALLATION TOOLING			WIRE STRIP LENGTH
		INSERTION LENGTH "B"	OVERALL LENGTH "L"		PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BCU-8	8 AWG	.53	1.75	Red	TDM-250 or TDM-500	6	T-49	9/16"
BCU-6	6 AWG	.78	1.75	Blue		7	T-7	15/16"
BCU-5	5 AWG	.78	1.75	Blue		7	T-7	15/16"
BCU-4	4 AWG	.78	1.75	Gray		8	T-8	15/16"
BCU-3	3 AWG	.88	1.88	White		9	T-9	1"
BCU-2	2 AWG	.84	1.87	Brown		10	T-10	1"
BCU-1	1 AWG	.88	1.88	Green		11	T-11	1"
BCU-1/0	1/0 AWG	.88	1.88	Pink		12	T-12	1"
BCU-2/0	2/0 AWG	.94	2.00	Black		13	T-13	1-1/16"
BCU-3/0	3/0 AWG	1.00	2.13	Orange		14	T-14	1-1/8"
BCU-4/0	4/0 AWG	1.00	2.13	Purple		15	T-15	1-1/8"
BCU-025	250 kcmil	1.03	2.25	Yellow		16	T-16	1-3/16"
BCU-030	300 kcmil	1.06	2.25	White		17	T-17	1-3/16"
BCU-035	350 kcmil	1.13	2.38	Red		18	T-18	1-1/4"
BCU-040	400 kcmil	1.19	2.50	Blue		19	T-19	1-5/16"
BCU-045	450 kcmil	1.38	2.88	Blue		19	T-19	1-1/2"
BCU-050	500 kcmil	1.38	2.88	Brown	20	T-20	1-1/2"	
BCU-060	600 kcmil	1.38	2.88	Green	22	T-22	1-1/2"	
BCU-065	650 kcmil	1.38	2.88	Pink	300	T-300	1-1/2"	
BCU-075	750 kcmil	1.63	3.38	Black	24	T-24	1-3/4"	
BCU-080	800 kcmil	1.59	3.37	Orange	25	T-25P	1-3/4"	
BCU-100	1000 kcmil	1.88	3.88	White	27	T-27P	2"	
BCU-150	1500 kcmil	2.00	4.13	Green	31	T-31P	2-1/8"	
BCU-200	2000 kcmil	2.22	4.62	Brown	34	-	2-3/8"	

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Crimp Splice - Long Barrel

Type BBCU

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Positive cable stops to ensure proper insertion of conductors to full depth
- Color coded barrels are marked with die index numbers
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Connectors are suitable for voltages up to 35 KV if taped according to accepted practices, 5 KV is the maximum voltage level in all bare splice applications
- Connectors are UL listed and CSA certified with Penn-Union, Burndy T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BBCU DIMENSIONS & INSTALLATION TOOLING INFORMATION

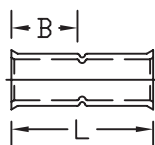
CATALOG NUMBER	COPPER CONDUCTOR SIZE	FIGURE DIMENSIONS (IN.)		COLOR CODE	INSTALLATION TOOLING			WIRE STRIP LENGTH
		INSERTION LENGTH "B"	OVERALL LENGTH "L"		PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBCU-8	8 AWG	.99	1.98	Red	TDM-250 or TDM-500	6	T-49	1-1/8"
BBCU-6	6 AWG	1.19	2.37	Blue		7	T-7	1-5/16"
BBCU-4	4 AWG	1.09	2.38	Gray		8	T-8	1-3/16"
BBCU-3	3 AWG	1.13	2.38	White		9	T-9	1-1/4"
BBCU-2	2 AWG	1.22	2.63	Brown		10	T-10	1-3/8"
BBCU-1	1 AWG	1.38	2.88	Green		11	T-11	1-1/2"
BBCU-1/0	1/0 AWG	1.38	2.88	Pink		12	T-12	1-1/2"
BBCU-2/0	2/0 AWG	1.50	3.12	Black		13	T-13	1-5/8"
BBCU-3/0	3/0 AWG	1.50	3.13	Orange		14	T-14	1-5/8"
BBCU-4/0	4/0 AWG	1.63	3.38	Purple		15	T-15	1-3/4"
BBCU-025	250 kcmil	1.59	3.38	Yellow		16	T-16	1-3/4"
BBCU-030	300 kcmil	2.00	4.13	White		17	T-17	2-1/8"
BBCU-035	350 kcmil	2.00	4.13	Red		18	T-18	2-1/8"
BBCU-040	400 kcmil	2.13	4.38	Blue		19	T-19	2-1/4"
BBCU-050	500 kcmil	2.25	4.63	Brown		20	T-20	2-3/8"
BBCU-060	600 kcmil	2.69	5.50	Green		22	T-22	2-13/16"
BBCU-065	650 kcmil	2.75	5.63	Pink	300	T-300	2-7/8"	
BBCU-075	750 kcmil	2.88	5.88	Black	24	T-24	3"	
BBCU-080	800 kcmil	2.91	6.00	Orange	25	T-25P	3-1/16"	
BBCU-100	1000 kcmil	3.00	6.13	White	27	T-27P	3-1/8"	
BBCU-150	1500 kcmil	3.19	6.50	Green	31	T-31P	3-5/16"	
BBCU-200	2000 kcmil	3.41	7.00	Brown	34	-	3-9/16"	

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Flared Crimp Splice - Standard Barrel

Type BCU-FL

- Suitable for use with Class B, C, I, K, H, G, M and DLO conductors ♦
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Flared barrel entry provides easy cable insertion for fine stranded cables and minimizes strain during flexing and movement
- Positive cable stops to ensure proper insertion of conductors to full depth
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV if taped according to accepted practices, 5 KV is the maximum voltage level in all bare splice applications
- Connectors are UL listed and CSA certified with Penn-Union, Burndy T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BCU-FL DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	FIGURE DIMENSIONS (IN.)		COLOR CODE	INSTALLATION TOOLING			WIRE STRIP LENGTH
		INSERTION LENGTH "B"	OVERALL LENGTH "L"		PENN-UNION DIELESS MECHANICAL TOOL	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BCU-3-FL	105/24 4 WELD; 3 AWG	.88	1.84	White	TDM-250XF	9	T-9	1"
BCU-1-FL	150/24 2 WELD; 1 AWG	.88	1.84	Green		11	T-11	1"
BCU-1/0-FL	225/24 1 WELD; 1/0 AWG	.88	1.84	Pink		12	T-12	1"
BCU-2/0-FL	275/24 1/0 WELD; 2/0 AWG	.94	1.96	Black		13	T-13	1-1/16"
BCU-3/0-FL	325/24 2/0 WELD; 3/0 AWG	1.00	2.09	Orange		14	T-14	1-1/8"
BCU-4/0-FL	450/24 3/0 WELD; 4/0 AWG	1.00	2.09	Purple		15	T-15	1-1/8"
BCU-030-FL	550/24 4/0 WELD; 300 kcmil	1.06	2.21	White		17	T-17	1-3/16"
BCU-035-FL	650/24; 350 kcmil	1.13	2.34	Red	18	T-18	1-1/4"	
BCU-040-FL	775/24; 400 kcmil	1.19	2.46	Blue	19	T-19	1-5/16"	
BCU-050-FL	925/24; 500 kcmil	1.38	2.84	Brown	20	T-20	1-1/2"	
BCU-060-FL	1100/24; 600 kcmil	1.38	2.84	Green	22	T-22	1-1/2"	
BCU-065-FL	1325/24; 650 kcmil	1.38	2.84	Pink	300	T-300	1-1/2"	
BCU-075-FL	1600/24; 750 kcmil	1.63	3.34	Black	24	T-24	1-3/4"	
BCU-100-FL	1925/24; 1000 kcmil	1.88	3.84	White	27	T-27P	2"	
BCU-150-FL	2750/24; 1500 kcmil	2.00	4.09	Green	31	T-31P	2-1/8"	

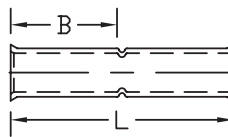
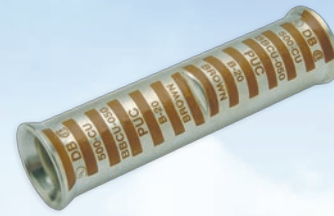
♦ For additional wire size recommendations please refer to page 73

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

Flared Crimp Splice - Long Barrel

Type BBCU-FL

- Suitable for use with Class B, C, I, K, H, G, M and DLO conductors ♦
- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Flared barrel entry provides easy cable insertion for fine stranded cables and minimizes strain during flexing and movement
- Positive cable stops to ensure proper insertion of conductors to full depth
- Long barrel provides high pull out force and added secureness for improved mechanical and electrical properties
- Color coded barrels are marked with die index numbers
- Connectors are suitable for voltages up to 35 KV if taped according to accepted practices, 5 KV is the maximum voltage level in all bare splice applications
- Connectors are UL listed and CSA certified with Penn-Union, Burndy T&B, Huskie, Greenlee and Versa-Crimp® style tooling



BBCU-FL DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE	FIGURE DIMENSIONS (IN.)		COLOR CODE	INSTALLATION TOOLING			WIRE STRIP LENGTH
		INSERTION LENGTH "B"	OVERALL LENGTH "L"		PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BBCU-3-FL	105/24 4 WELD; 3 AWG	1.13	2.38	White	TDM-250XF	9	T-9	1-1/4"
BBCU-1-FL	150/24 2 WELD; 1 AWG	1.38	2.84	Green		11	T-11	1-1/2"
BBCU-1/0-FL	225/24 1 WELD; 1/0 AWG	1.38	2.84	Pink		12	T-12	1-1/2"
BBCU-2/0-FL	275/24 1/0 WELD; 2/0 AWG	1.50	3.09	Black		13	T-13	1-5/8"
BBCU-3/0-FL	325/24 2/0 WELD; 3/0 AWG	1.50	3.09	Orange		14	T-14	1-5/8"
BBCU-4/0-FL	450/24 3/0 WELD; 4/0 AWG	1.63	3.34	Purple		15	T-15	1-3/4"
BBCU-030-FL	550/24 4/0 WELD; 300 kcmil	2.00	4.09	White		17	T-17	2-1/8"
BBCU-035-FL	650/24; 350 kcmil	2.00	4.09	Red		18	T-18	2-1/8"
BBCU-040-FL	775/24; 400 kcmil	2.13	4.34	Blue		19	T-19	2-1/4"
BBCU-050-FL	925/24; 500 kcmil	2.25	4.59	Brown		20	T-20	2-3/8"
BBCU-060-FL	1100/24; 600 kcmil	2.69	5.46	Green		22	T-22	2-13/16"
BBCU-065-FL	1325/24; 650 kcmil	2.75	5.63	Pink		300	T-300	2-7/8"
BBCU-075-FL	1600/24; 750 kcmil	2.88	5.84	Black		24	T-24	3"
BBCU-100-FL	1925/24; 1000 kcmil	3.00	6.09	White		27	T-27P	3-1/8"
BBCU-150-FL	2750/24; 1500 kcmil	3.19	6.46	Green		31	T-31P	3-5/16"

♦ For additional wire size recommendations please refer to page 73

- Connectors from 8 AWG - 2000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications
- Connectors from 8 AWG - 500 kcmil are UL listed for grounding, bonding and direct burial applications per UL467
- Connectors from 8 AWG - 250 kcmil are CSA certified for grounding, bonding and direct burial applications per C22.2 No.41

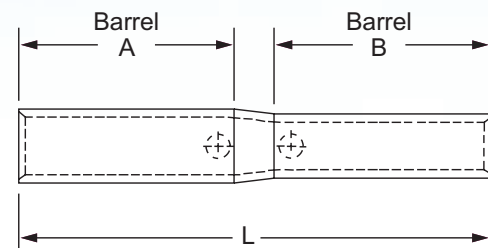
COPPER COMPRESSION SPLICES

Copper Reducing Crimp Splice with Inspection Windows

**NEW
PRODUCT**

Type BCUR

- Manufactured from high conductivity seamless copper tubing
- Designed for splicing two different cable sizes end to end
- Connectors are cULus listed for use with Class B & C copper building conductor and diesel locomotive cable and temperature rated to 90°C
- Connectors are cULus listed per UL486A-B for power applications and are also listed per UL467 for grounding, bonding and direct burial applications
- Tin plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Color coded barrels are marked with appropriate conductor size and die index numbers
- Connectors are cULus listed with Penn-Union, Burndy, T&B, Huskie, Greenlee and Versa-Crimp style tooling
- Inspection windows in each barrel ensures full cable insertion
- Connectors are suitable for voltages up to 35KV if taped according to accepted practices, 5KV is the maximum voltage level in all bare splice applications



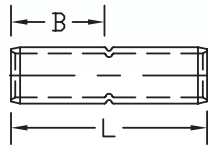
BCUR DIMENSIONS & INDEX REFERENCE

CATALOG NUMBER	COPPER CONDUCTOR SIZE				CONNECTOR INFORMATION									WIRE STRIP LENGTH	
	BARREL A		BARREL B		DIMENSIONS (IN.)			COLOR CODE		BURNDY DIE INDEX NO.		PENN-UNION DIE CATALOG NO.		BARREL A	BARREL B
	CLASS B & C COPPER CONDUCTOR	DIESEL LOCOMOTIVE CABLE	CLASS B & C COPPER CONDUCTOR	DIESEL LOCOMOTIVE CABLE	BARREL A	BARREL B	OVERALL LENGTH "L"	BARREL A	BARREL B	BARREL A	BARREL B	BARREL A	BARREL B	BARREL A	BARREL B
BCUR-4-6	4 AWG	105/24	6 AWG	61/24	.94	.94	1.95	GRAY	BLUE	B-8	B-7	T-8	T-7	1-1/16"	1-1/16"
BCUR-2-6	2 AWG	125/24	6 AWG	61/24	.97	.94	2.11	BROWN	BLUE	B-10	B-7	T-10	T-7	1-1/8"	1-1/16"
BCUR-2-4	2 AWG	125/24	4 AWG	105/24	.97	.94	2.06	BROWN	GRAY	B-10	B-8	T-10	T-8	1-1/8"	1-1/16"
BCUR-1/0-6	1/0 AWG	225/24	6 AWG	61/24	.97	.94	2.26	PINK	BLUE	B-12	B-7	T-12	T-7	1-1/8"	1-1/16"
BCUR-1/0-4	1/0 AWG	225/24	4 AWG	105/24	.97	.94	2.21	PINK	GRAY	B-12	B-8	T-12	T-8	1-1/8"	1-1/16"
BCUR-2/0-6	2/0 AWG	275/24	6 AWG	61/24	1.03	.94	2.42	BLACK	BLUE	B-13	B-7	T-13	T-7	1-3/16"	1-1/16"
BCUR-2/0-4	2/0 AWG	275/24	4 AWG	105/24	1.03	.94	2.36	BLACK	GRAY	B-13	B-8	T-13	T-8	1-3/16"	1-1/16"
BCUR-4/0-6	4/0 AWG	450/24	6 AWG	61/24	1.09	.94	2.69	PURPLE	BLUE	B-15	B-7	T-15	T-7	1-1/4"	1-1/16"
BCUR-4/0-4	4/0 AWG	450/24	4 AWG	105/24	1.09	.94	2.71	PURPLE	GRAY	B-15	B-8	T-15	T-8	1-1/4"	1-1/16"
BCUR-4/0-1/0	4/0 AWG	450/24	1/0 AWG	225/24	1.09	.97	2.40	PURPLE	PINK	B-15	B-12	T-15	T-12	1-1/4"	1-1/8"
BCUR-4/0-2/0	4/0 AWG	450/24	2/0 AWG	275/24	1.09	1.03	2.35	PURPLE	BLACK	B-15	B-13	T-15	T-13	1-1/4"	1-3/16"
BCUR-050-030	500 kcmil	925/24	300 kcmil	550/24	1.54	1.23	3.33	BROWN	WHITE	B-20	B-17	T-20	T-17	1-11/16"	1-3/8"
BCUR-075-4/0	750 kcmil	1600/24	4/0 AWG	450/24	1.85	1.09	3.97	BLACK	PURPLE	B-24	B-15	T-24	T-15	2"	1-1/4"
BCUR-075-035	750 kcmil	1600/24	350 kcmil	650/24	1.85	1.36	3.97	BLACK	RED	B-24	B-18	T-24	T-18	2"	1-1/2"
BCUR-075-050	750 kcmil	1600/24	500 kcmil	925/24	1.85	1.54	3.80	BLACK	BROWN	B-24	B-20	T-24	T-20	2"	1-11/16"
BCUR-100-4/0	1000 kcmil	1924/24	4/0 AWG	450/24	2.13	1.09	4.71	WHITE	PURPLE	B-27	B-15	T-27P	T-15	2-1/4"	1-1/4"
BCUR-100-050	1000 kcmil	1925/24	500 kcmil	925/24	2.13	1.54	4.44	WHITE	BROWN	B-27	B-20	T-27P	T-20	2-1/4"	1-11/16"
BCUR-100-075	1000 kcmil	1924/24	750 kcmil	1600/24	2.13	1.85	4.55	WHITE	BLACK	B-27	B-24	T-27P	T-24	2-1/4"	2"

Crimp Splice - Tapered Barrel

Type BCU-T

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Tapered ends allow for easier application of insulation
- Positive cable stops to ensure proper insertion of conductors to full depth



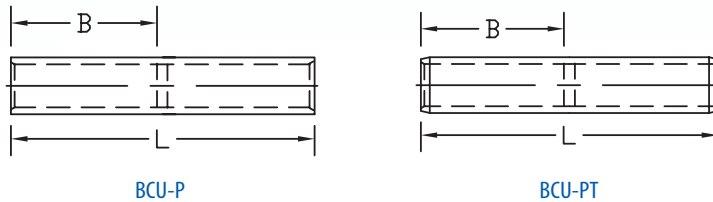
BCU-T DIMENSIONS & INDEX REFERENCE

CATALOG NUMBER	COPPER CONDUCTOR SIZE	APPROX. DIMENSIONS (IN.)		NO. OF CRIMPS PER END	INSTALLATION TOOLING		WIRE STRIP LENGTH
		INSERTION LENGTH "B"	OVERALL LENGTH "L"		BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BCU-6-T	6 AWG	.88	1.88	1	7	T-7	1"
BCU-4-T	4 AWG	.88	1.88	1	8	T-8	1"
BCU-2-T	2 AWG	1.00	2.13	1	10	T-10	1-1/8"
BCU-1-T	1 AWG	1.00	2.13	1	11	T-11	1-1/8"
BCU-1/0-T	1/0 AWG	1.00	2.13	1	12	T-12	1-1/8"
BCU-2/0-T	2/0 AWG	1.06	2.25	1	13	T-13	1-3/16"
BCU-3/0-T	3/0 AWG	1.13	2.38	1	14	T-14	1-1/4"
BCU-4/0-T	4/0 AWG	1.13	2.38	1	15	T-15	1-1/4"
BCU-025-T	250 kcmil	1.25	2.63	1	16	T-16	1-3/8"
BCU-030-T	300 kcmil	1.25	2.63	1	17	T-17	1-3/8"
BCU-035-T	350 kcmil	1.31	2.75	1	18	T-18	1-7/16"
BCU-040-T	400 kcmil	1.44	3.00	1	19	T-19	1-9/16"
BCU-050-T	500 kcmil	1.69	3.50	1	20	T-20	1-13/16"
BCU-075-T	750 kcmil	2.06	4.25	1	24	T-24	2-3/16"
BCU-100-T	1000 kcmil	2.44	5.00	1	27	T-27P	2-9/16"

Crimp Splice - with Oil Stop & Standard or Tapered Barrels

Types BCU-P and BCU-PT

- Manufactured from high conductivity seamless copper tubing
- Tin-plated to inhibit corrosion
- Beveled entry for easy cable insertion
- Solid barrier cable stop to ensure proper insertion of conductors to full depth while providing an oil tight seal
- Type PT has tapered ends to allow for easier application of insulation



BCU-P and BCU-PT DIMENSIONS & INDEX REFERENCE

CATALOG NUMBER (OIL-STOP)	CATALOG NUMBER (OIL STOP & TAPERED)	COPPER CONDUCTOR SIZE	APPROX. DIMENSIONS (IN.)		NO. OF CRIMPS PER END	INSTALLATION TOOLING		WIRE STRIP LENGTH
			INSERTION LENGTH "B"	OVERALL LENGTH "L"		BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	
BCU-4-P	BCU-4-PT	4 AWG	.88	1.88	1	8	T-8	1"
BCU-2-P	BCU-2-PT	2 AWG	1.00	2.13	1	10	T-10	1-1/8"
BCU-1/0-P	BCU-1/0-PT	1/0 AWG	1.00	2.13	1	12	T-12	1-1/8"
BCU-2/0-P	BCU-2/0-PT	2/0 AWG	1.06	2.25	1	13	T-13	1-3/16"
BCU-4/0-P	BCU-4/0-PT	4/0 AWG	1.13	2.38	1	15	T-15	1-1/4"
BCU-025-P	BCU-025-PT	250 kcmil	1.25	2.63	1	16	T-16	1-3/8"
BCU-030-P	BCU-030-PT	300 kcmil	1.25	2.63	1	17	T-17	1-3/8"
BCU-035-P	BCU-035-PT	350 kcmil	1.31	2.75	1	18	T-18	1-7/16"
BCU-050-P	BCU-050-PT	500 kcmil	1.69	3.50	1	20	T-20	1-13/16"
BCU-075-P	BCU-075-PT	750 kcmil	2.06	4.25	1	24	T-24	2-3/16"
BCU-100-P	BCU-100-PT	1000 kcmil	2.44	5.00	1	27	T-27P	2-9/16"

Copper and Brass Plated Steel Pigtail Connectors

Type PT

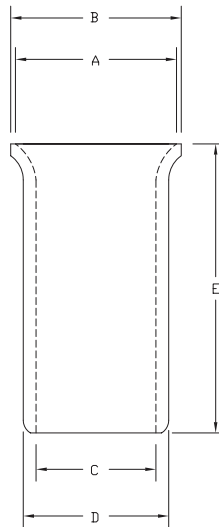
Copper Pigtail Connectors

- Manufactured from seamless copper tube for excellent electrical and mechanical performance

Brass Plated Steel Pigtail Connectors

- Manufactured from malleable steel tubing with brass plating for a quality low resistance connection

- Designed to accommodate a wide range of copper conductor sizes and combinations
- Funneled barrel design allows for easy cable insertion
- Crimp design provides a permanent non-reversible connection



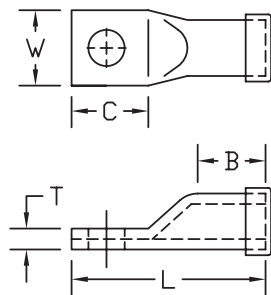
CATALOG NUMBER	CONNECTOR MATERIAL	COPPER CONDUCTOR RANGE (AWG)	APPROXIMATE DIMENSIONS (IN.)					INSTALLATION TOOL
			A	B	C	D	E	
PT-1810	Copper	18-10	.26	.29	.20	.24	.37	HTC-1808
PT-1408	Copper	14-8	.34	.36	.25	.31	.61	
PT-1810S	Brass Plated Steel	18-10	.26	.29	.20	.24	.37	
PT-1408S	Brass Plated Steel	14-8	.34	.36	.25	.31	.61	

See page 96 for pigtail connector crimping tool HTC-1808

Standard Barrel - One Hole Tongue

Type BLUA-S

- Manufactured from seamless aluminum tubing
- Tin-plated and factory prefilled with oxide inhibitor compound
- Beveled entry for easy cable insertion
- Color coding conforms to industry standards ensuring proper die selection and providing for a faster installation
- Connectors are marked with catalog number, wire size, die index and crimp locations
- Connectors are suitable for voltages up to 35 KV
- End caps provided to prevent foreign materials from entering and contaminating the connector prior to usage
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie and Greenlee tooling**



BLUA-S

See table for dimensions and installation tooling information

BLUA-S DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	ALUMINUM & COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					COLOR CODE	INSTALLATION TOOLING			
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"		PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH
BLUA-8S+	8 AWG	1/4"	.40	.62	.12	.56	1.56	Blue	TDM-250 or TDM-500	374	T-374	3/4"
BLUA-6S	6 AWG	1/4"	.50	.80	.13	.69	1.83	Gray		346	T-346	7/8"
BLUA-6S2		5/16"	.50	.78	.13	.75	1.82			375	T-375	1"
BLUA-4S3	4 AWG	1/4"	.58	.80	.18	.87	1.89	Green		348	T-348	1"
BLUA-4S2		5/16"	.58	.80	.18	.87	1.89					
BLUA-2S3	2 AWG	1/4"	.70	.85	.21	.78	2.04	Pink		471	T-471	1-1/16"
BLUA-2S4		5/16"	.70	.86	.21	.78	2.05					
BLUA-2S		3/8"	.70	.86	.21	.78	2.05					
BLUA-1S1	1 AWG	1/4"	.73	.78	.17	.90	1.92	Gold		296	T-296	1-1/8"
BLUA-1S3		5/16"	.73	.84	.17	.90	1.95					
BLUA-1S		3/8"	.73	1.18	.17	.90	2.53					
BLUA-1S2		1/2"	.82	1.25	.27	.90	2.59					
BLUA-1/0S2	1/0 AWG	1/4"	.84	.85	.23	.87	2.17	Tan		297	T-297	1-1/4"
BLUA-1/0S3		5/16"	.84	.86	.23	.88	2.17					
BLUA-1/0S		3/8"	.84	.85	.23	.87	2.17					
BLUA-1/0S1		1/2"	.85	1.12	.23	1.12	2.43	Olive		467	T-467	1-3/8"
BLUA-2/0S4	2/0 AWG	1/4"	.93	.78	.25	1.09	2.25					
BLUA-2/0S5		5/16"	.93	.84	.25	1.09	2.31					
BLUA-2/0S1		3/8"	.93	1.20	.25	1.09	2.62					
BLUA-2/0S		1/2"	.93	1.20	.25	1.09	2.62					
BLUA-3/0S5	3/0 AWG	5/16"	1.03	.84	.26	1.25	2.59	Ruby		298	T-298	1-7/16"
BLUA-3/0S2		3/8"	1.03	1.06	.26	1.25	2.81					
BLUA-3/0S		1/2"	1.03	1.22	.26	1.25	2.91					
BLUA-4/0S3	4/0 AWG	5/16"	1.17	.84	.29	1.31	2.65	White		324	T-324	1-9/16"
BLUA-4/0S5		3/8"	1.17	1.20	.30	1.28	2.97					
BLUA-4/0S		1/2"	1.17	1.20	.30	1.28	2.97					
BLUA-4/0S4		5/8"	1.17	1.46	.29	1.31	3.28					
BLUA-02S52	250 kcmil	3/8"	1.26	1.06	.33	1.41	3.00	Red		470	T-470	1-5/8"
BLUA-02S5		1/2"	1.25	1.53	.33	1.41	3.44					
BLUA-02S53		5/8"	1.26	1.50	.32	1.40	3.43					
BLUA-030S2	300 kcmil	3/8"	1.39	1.25	.35	1.50	3.62	Blue	299	T-299	1-3/4"	
BLUA-030S1		1/2"	1.37	1.56	.36	1.50	3.88					
BLUA-030S		5/8"	1.39	1.46	.35	1.50	3.65	Brown	472	T-472	2"	
BLUA-035S1	350 kcmil	1/2"	1.48	1.55	.39	1.61	3.91					
BLUA-035S			5/8"	1.48	1.55	.39	1.61	3.91	Green	300	T-300	2-1/16"
BLUA-040S2	400 kcmil	1/2"	1.62	1.50	.42	1.81	4.53					
BLUA-040S3			5/8"	1.62	1.81	.42	1.81	4.84	Pink	473	T-473	2-1/8"
BLUA-050S2	500 kcmil	1/2"	1.79	1.50	.46	1.87	4.31					
BLUA-050S3			5/8"	1.79	1.81	.46	1.87	4.62	Black	301	T-301P	2-3/8"
BLUA-060S1	600 kcmil	5/8"	1.96	2.03	.51	2.00	5.15					
BLUA-075S1	750 kcmil	5/8"	2.14	2.18	.57	2.25	5.37	Red	474	T-474P	2-7/16"	
BLUA-080S1	800 kcmil	5/8"	2.37	2.50	.62	2.31	6.40					
BLUA-090S+	900 kcmil AL	1/2"	2.14	1.36	.37	2.46	5.32	Gray	303*	-	2-9/16"	
BLUA-090S1+	600 kcmil CU	5/8"	2.14	1.86	.37	2.46	5.82	Gray	303*	-	2-9/16"	
BLUA-100S1	1000 kcmil	5/8"	2.50	2.50	.65	2.56	6.71	Brown	302	T-302P	2-11/16"	

+ The following dieless compression tools are approved to be used on 600-900 kcmil aluminum and 600 kcmil copper:

TPU-6FT, TPU-6FTB, TPU-6FTH, HDT-1000 and HDT-1000B

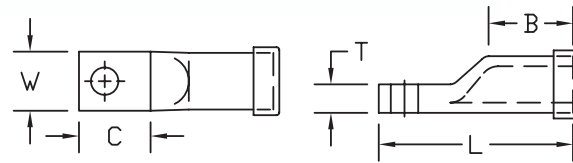
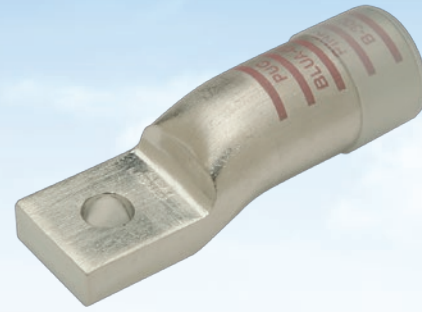
* The Burndy 303 die is for use with 900 kcmil aluminum only

• Not UL listed

- Connectors from 8 AWG - 1000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications

Standard Barrel - One Hole Narrow Tongue Type BLUA-S-NT

- Manufactured from seamless aluminum tubing
- Tin-plated and factory prefilled with oxide inhibitor compound
- Beveled entry for easy cable insertion
- **Narrow tongue design for limited space applications**
- Color coding conforms to industry standards ensuring proper die selection and providing for a faster installation
- Connectors are marked with catalog number, wire size, die index and crimp locations
- Connectors are suitable for voltages up to 35 KV
- End caps provided to prevent foreign materials from entering and contaminating the connector prior to usage
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie and Greenlee tooling**



BLUA-S-NT DIMENSIONS & INSTALLATION TOOLING INFORMATION

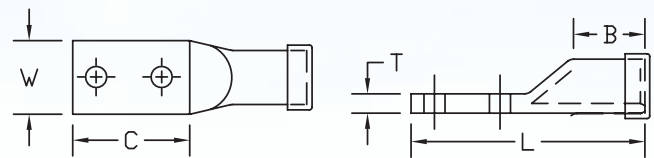
CATALOG NUMBER	ALUMINUM & COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)					COLOR CODE	INSTALLATION TOOLING										
			TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"		PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH							
BLUA-8S-NT	8 AWG	1/4"	.40	.62	.12	.56	1.56	Blue	TDM-250 or TDM-500	374	T-374	3/4"							
BLUA-6S-NT	6 AWG	1/4"	.50	.80	.13	.69	1.83	Gray		346	T-346	7/8"							
BLUA-4S3-NT	4 AWG	1/4"	.50	.80	.21	.87	1.89	Green		375	T-375	1"							
BLUA-2S3-NT	2 AWG	1/4"	.55	.86	.27	.78	2.05	Pink		TDM-500	348	T-348	1"						
BLUA-2S4-NT		5/16"	.55	.86	.27	.78	2.05												
BLUA-1S1-NT	1 AWG	1/4"	.55	.78	.23	.91	1.92	Gold			TDM-500	471	T-471	1-1/16"					
BLUA-1S3-NT		5/16"	.55	.84	.23	.91	1.95												
BLUA-1/0S3-NT	1/0 AWG	5/16"	.64	.86	.30	.88	2.17	Tan				TDM-500	296	T-296	1-1/16"				
BLUA-1/0S-NT		3/8"	.64	.86	.30	.88	2.17												
BLUA-2/0S5-NT	2/0 AWG	5/16"	.64	.84	.36	1.09	2.31	Olive					TDM-500	297	T-297	1-1/4"			
BLUA-2/0S1-NT		3/8"	.64	1.20	.36	1.09	2.62												
BLUA-3/0S5-NT	3/0 AWG	5/16"	.78	.84	.34	1.25	2.59	Ruby						TDM-500	467	T-467	1-3/8"		
BLUA-3/0S2-NT		3/8"	.78	1.06	.34	1.25	2.81												
BLUA-4/0S3-NT	4/0 AWG	5/16"	.78	.84	.45	1.31	2.66	White							TDM-500	298	T-298	1-7/16"	
BLUA-4/0S5-NT		3/8"	.78	1.20	.45	1.28	2.97												
BLUA-02S52-NT	250 kcmil	3/8"	.98	1.20	.42	1.41	3.11	Red								TDM-500	324	T-324	1-9/16"
BLUA-02S5-NT		1/2"	.98	1.53	.42	1.41	3.44												
BLUA-030S3-NT	300 kcmil	5/16"	.98	1.25	.51	1.06	2.44	Blue	TDM-500								470	T-470	1-5/8"
BLUA-030S2-NT		3/8"	.98	1.25	.51	1.50	3.63												
BLUA-030S1-NT		1/2"	.98	1.56	.51	1.50	3.88												
BLUA-03S53-NT	350 kcmil	5/16"	1.00	1.25	.58	1.63	3.50	Brown		TDM-500							299	T-299	1-3/4"
BLUA-03S52-NT		3/8"	1.00	1.25	.58	1.63	3.50												
BLUA-03S51-NT		1/2"	1.00	1.55	.58	1.61	3.91												
BLUA-040S1-NT	400 kcmil	5/16"	1.20	1.25	.57	1.81	4.28	Green			TDM-500	472					T-472	2"	
BLUA-040S4-NT		3/8"	1.20	1.25	.57	1.81	4.28												
BLUA-040S2-NT		1/2"	1.20	1.50	.57	1.81	4.53												
BLUA-050S1-NT	500 kcmil	3/8"	1.32	1.25	.54	1.88	4.06	Pink				TDM-500	300				T-300	2-1/16"	
BLUA-050S2-NT		1/2"	1.32	1.50	.54	1.88	4.31												
BLUA-060S2-NT	600 kcmil	1/2"	1.31	2.03	.78	2.00	5.16	Black					TDM-500	473			T-473	2-1/8"	
BLUA-060S-NT		5/8"	1.31	1.72	.78	2.00	4.84												
BLUA-07S54-NT	750 kcmil	1/2"	1.49	2.06	.63	2.25	5.25	Red						TDM-500	301		T-301P	2-3/8"	
BLUA-07S51-NT		5/8"	1.49	2.19	.63	2.25	5.38												

- Connectors from 8 AWG - 1000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications

Standard Barrel - Two Hole Tongue

Type BLUA-D

- Manufactured from seamless aluminum tubing
- Tin-plated and factory prefilled with oxide inhibitor compound
- Beveled entry for easy cable insertion
- Color coding conforms to industry standards ensuring proper die selection and providing for a faster installation
- Connectors are marked with catalog number, wire size, die index and crimp locations
- Connectors are suitable for voltages up to 35 KV
- End caps provided to prevent foreign materials from entering and contaminating the connector prior to usage
- Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie and Greenlee tooling



BLUA-D DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	ALUMINUM & COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)							COLOR CODE	INSTALLATION TOOLING							
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	PENN-UNION DIELESS MECHANICAL TOOLS		BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH					
BLUA-1D1	1 AWG	1/2"	1.75	.82	2.90	.26	.90	4.04	Gold	TDM-250 or TDM-500	471	T-471	1-1/16"					
BLUA-1/0D1	1/0 AWG	3/8"	1.00	.85	1.87	.23	1.00	3.53	Tan		296	T-296	1-1/8"					
BLUA-1/0D2		3/8"	1.06	.85	2.18	.23	1.00	3.84			297	T-297	1-1/4"					
BLUA-1/0D3		1/2"	1.75	.84	3.00	.24	1.00	4.57			467	T-467	1-3/8"					
BLUA-2/0D2	2/0 AWG	3/8"	1.00	.93	1.87	.25	1.09	3.37	Olive		298	T-298	1-7/16"					
BLUA-2/0D		1/2"	1.75	.94	3.18	.25	1.09	4.62			324	T-324	1-9/16"					
BLUA-3/0D1	3/0 AWG	3/8"	1.00	1.03	1.87	.26	1.25	3.90	Ruby		TDM-500	470	T-470	1-5/8"				
BLUA-3/0D		1/2"	1.75	1.03	2.97	.26	1.25	4.66				299	T-299	1-3/4"				
BLUA-4/0D2	4/0 AWG	3/8"	1.00	1.17	2.06	.29	1.31	3.87	White			472	T-472	2"				
BLUA-4/0D		1/2"	1.75	1.16	2.94	.30	1.29	4.73				300	T-300	2-1/16"				
BLUA-025D1	250 kcmil	3/8"	1.00	1.26	2.06	.32	1.40	4.00	Red	TDM-500		473	T-473	2-1/8"				
BLUA-025D		1/2"	1.75	1.25	2.91	.33	1.79	5.20				301	T-301P	2-3/8"				
BLUA-030D1	300 kcmil	3/8"	1.00	1.39	2.37	.35	1.50	4.46	Blue			474	T-474P	2-7/16"				
BLUA-030D		1/2"	1.75	1.38	3.00	.36	1.47	5.34				303*	-	2-9/16"				
BLUA-035D1	350 kcmil	3/8"	1.00	1.48	2.06	.39	1.63	4.44	Brown			TDM-500	302	T-302P	2-11/16"			
BLUA-035D		1/2"	1.75	1.48	2.94	.39	1.59	5.31					302	T-302P	2-11/16"			
BLUA-040D1	400 kcmil	3/8"	1.00	1.62	2.06	.42	1.81	4.56	Green		TDM-500		302	T-302P	2-11/16"			
BLUA-040D2		1/2"	1.75	1.62	3.12	.42	1.81	5.62					302	T-302P	2-11/16"			
BLUA-040D	5/8"	1.75	1.62	3.09	.42	1.81	5.59	Pink	TDM-500				302	T-302P	2-11/16"			
BLUA-050D1	500 kcmil	3/8"	1.00	1.79	2.06	.46	1.87						4.87	Black	TDM-500	302	T-302P	2-11/16"
BLUA-050D2		1/2"	1.75	1.79	3.13	.46	1.88	5.94		302			T-302P			2-11/16"		
BLUA-050D	5/8"	1.75	1.80	3.22	.47	1.87	6.03	Red		TDM-500			302	T-302P		2-11/16"		
BLUA-060D1	600 kcmil	3/8"	1.00	1.96	2.06	.51	2.00						5.18	Gray		TDM-500	302	T-302P
BLUA-060D2		1/2"	1.75	1.97	3.13	.52	2.00	6.25					302				T-302P	2-11/16"
BLUA-060D	5/8"	1.75	1.96	3.21	.51	2.00	6.34	Gray				TDM-500	302	T-302P			2-11/16"	
BLUA-075D1	750 kcmil	1/2"	1.75	2.14	3.12	.57	2.25						6.31	Black			TDM-500	302
BLUA-075D		5/8"	1.75	2.14	3.21	.57	2.25	6.40			302		T-302P					2-11/16"
BLUA-080D1	800 kcmil	1/2"	1.75	2.37	3.21	.62	2.31	7.12			Gray		TDM-500	302				T-302P
BLUA-080D		5/8"	1.75	2.37	3.21	.62	2.31	7.12	302					T-302P				2-11/16"
BLUA-090D+	900 kcmil AL 600 kcmil CU	3/8"	1.00	2.14	2.00	.37	2.46	5.96	Gray		TDM-500			302	T-302P			2-11/16"
BLUA-100D2	1000 kcmil	1/2"	1.75	2.50	3.13	.66	2.56	7.34	Brown					TDM-500	302			T-302P
BLUA-100D		5/8"	1.75	2.50	3.21	.65	2.56	7.43		302					T-302P			2-11/16"

+ The following dieless compression tools are approved to be used on 600-900 kcmil aluminum and 600 kcmil copper: TPU-6FT, TFU-6FTB, TPU-6FTH, HDT-1000 and HDT-1000B

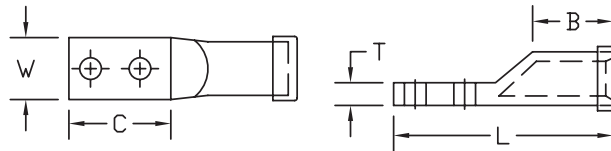
* The Burndy 303 die is for use with 900 kcmil aluminum only

- Connectors from 8 AWG - 1000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications

Standard Barrel - Two Hole Narrow Tongue

Type BLUA-D-NT

- Manufactured from seamless aluminum tubing
- Tin-plated and factory prefilled with oxide inhibitor compound
- Beveled entry for easy cable insertion
- **Narrow tongue design for limited space applications**
- Color coding conforms to industry standards ensuring proper die selection and providing for a faster installation
- Connectors are marked with catalog number, wire size, die index and crimp locations
- Connectors are suitable for voltages up to 35 KV
- End caps provided to prevent foreign materials from entering and contaminating the connector prior to usage
- **Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie and Greenlee tooling**



BLUA-D-NT DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	ALUMINUM & COPPER CONDUCTOR SIZE	STUD HOLE SIZE	FIGURE DIMENSIONS (IN.)						INSTALLATION TOOLING				WIRE STRIP LENGTH									
			STUD HOLE SPACING	TONGUE WIDTH "W"	TONGUE LENGTH "C"	TONGUE THICKNESS "T"	BARREL LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.										
BLUA-035D1-NT	350 kcmil	3/8"	1.00	1.25	2.06	.46	1.59	4.44	Brown	TDM-500	-	299	T-299	1-3/4"								
BLUA-035D-NT		1/2"	1.75	1.25	2.94	.46	1.59	5.31														
BLUA-040D1-NT	400 kcmil	3/8"	1.00	1.25	2.06	.55	1.81	4.56	Green						-	472	T-472	2"				
BLUA-040D2-NT		1/2"	1.75	1.25	3.13	.55	1.81	5.63														
BLUA-050D1-NT	500 kcmil	3/8"	1.00	1.32	2.06	.54	1.88	4.88	Pink										-	300	T-300	2-1/16"
BLUA-050D2-NT		1/2"	1.75	1.32	3.13	.54	1.88	5.94														
BLUA-060D1-NT	600 kcmil	3/8"	1.00	1.30	2.06	.79	2.00	5.19	Black	-	473	T-473	2-1/8"									
BLUA-060D2-NT		1/2"	1.75	1.30	3.13	.79	2.00	6.25														
BLUA-075D1-NT	750 kcmil	1/2"	1.75	1.49	3.13	.63	2.25	6.31	Red					-	301	T-301P	2-3/8"					
BLUA-075D-NT		5/8"	1.75	1.49	3.22	.63	2.25	6.41														
BLUA-090D1-NT+	900 kcmil AL 600 kcmil CU	1/2"	1.75	1.63	3.13	.37	2.46	7.09	Gray									-	303*	-	2-9/16"	
BLUA-090D-1-175ST12-NT+	900 kcmil AL 600 kcmil CU	1/2"	1.00 - 1.75	1.63	3.19	.37	2.46	7.15	Gray													
BLUA-100D2-NT	1000 kcmil	1/2"	1.75	1.61	3.13	1.02	2.56	7.34	Brown													

+ The following dieless compression tools are approved to be used on 600-900 kcmil aluminum and 600 kcmil copper: TPU-6FT, TFU-6FTB, TPU-6FTH, HDT-1000 and HDT-1000B

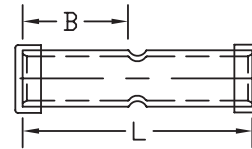
* The Burndy 303 die is for use with 900 kcmil aluminum only

- Connectors from 8 AWG - 1000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications

Crimp Splice - Standard Barrel

Type BCUA

- Manufactured from high conductivity seamless aluminum tubing
- Tin-plated and factory prefilled with oxide inhibitor compound
- Beveled entry for easy cable insertion
- Positive cable stops to ensure proper insertion of conductors to full depth
- Color coding conforms to industry standards ensuring proper die selection and providing for a faster installation
- Connectors are marked with catalog number, wire size, die index and crimp locations
- End caps provided to prevent foreign materials from entering and contaminating the connector prior to usage
- Connectors are suitable for voltages up to 35 KV if taped according to accepted practices, 5 KV is the maximum voltage level in all bare splice applications
- Connectors are UL listed and CSA certified with Penn-Union, Burndy, T&B, Huskie and Greenlee tooling



BCUA DIMENSIONS & INSTALLATION TOOLING INSTRUCTIONS

CATALOG NUMBER	ALUMINUM & COPPER CONDUCTOR SIZE	FIGURE DIMENSIONS (IN.)			INSTALLATION TOOLING			
		INSERTION LENGTH "B"	OVERALL LENGTH "L"	COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOLS	BURNDY DIE INDEX NO.	PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH
BCUA-8	8 AWG	.81	1.75	Blue	TDM-250 or TDM-500	374	T-374	7/8"
BCUA-6	6 AWG	.81	1.75	Gray		346	T-346	7/8"
BCUA-4	4 AWG	.88	1.88	Green		375	T-375	1"
BCUA-2	2 AWG	1.13	2.38	Pink		348	T-348	1-1/4"
BCUA-1	1 AWG	.91	1.94	Gold		471	T-471	1-1/16"
BCUA-1/0	1/0 AWG	1.00	2.13	Tan		296	T-296	1-1/8"
BCUA-2/0	2/0 AWG	1.09	2.31	Olive		297	T-297	1-1/4"
BCUA-3/0	3/0 AWG	1.25	2.63	Ruby		467	T-467	1-3/8"
BCUA-4/0	4/0 AWG	1.31	2.75	White		298	T-298	1-7/16"
BCUA-025	250 kcmil	1.41	2.94	Red		324	T-324	1-9/16"
BCUA-030	300 kcmil	1.50	3.13	Blue	TDM-500	470	T-470	1-5/8"
BCUA-035	350 kcmil	1.63	2.38	Brown		299	T-299	1-3/4"
BCUA-040	400 kcmil	1.81	3.75	Green		472	T-472	2"
BCUA-050	500 kcmil	1.88	3.88	Pink		300	T-300	2-1/16"
BCUA-060	600 kcmil	2.00	4.13	Black		473	T-473	2-3/16"
BCUA-075	750 kcmil	2.25	4.63	Red		301	T-301P	2-7/16"
BCUA-080	800 kcmil	2.31	4.75	Gray		474	T-474P	2-1/2"
BCUA-090+	900 kcmil AL 600 kcmil CU	2.46	5.45	Gray		303*	-	2-9/16"
BCUA-100	1000 kcmil	2.56	5.25	Brown		302	T-302P	2-3/4"
BCUA-150	1500 kcmil	3.19	6.50	-		478	-	3-5/16"
BCUA-200	2000 kcmil	3.69	7.50	-	479	-	3-11/16"	

+ The following dieless compression tools are approved to be used on 600-900 kcmil aluminum and 600 kcmil copper:
TPU-6FT, TFU-6FTB, TPU-6FTH, HDT-1000 and HDT-1000B

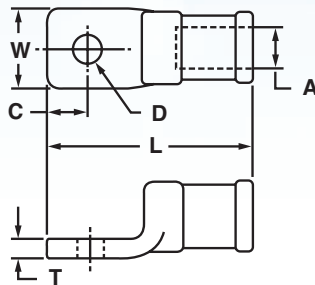
* The Burndy 303 die is for use with 900 kcmil aluminum only

- Connectors from 6 AWG - 1000 kcmil are UL listed per UL486A-B and CSA certified per C22.2 No.65 for POWER applications

Heavy Duty One Hole Cast Copper Compression Lugs

Type TLU-S

- Provides excellent mechanical strength
- Cast out of pure copper alloy for high conductivity
- Entire connector is electro-tin plated for corrosion resistance
- Can be installed with existing hydraulic crimping tools



CATALOG NUMBER	A CONDUCTOR SIZE	D BOLT SIZE	APPROXIMATE DIMENSIONS (IN.)				T & B DIE INDEX NO.
			L	W	T	C	
TLU-W8S	8 Str.	#10	1.44	.50	.13	.31	29
TLU-W6S	6 Str.	1/4	1.44	.50	.13	.31	29
TLU-W4S	4 Str.	1/4	1.44	.50	.13	.31	29
TLU-W2S	2 Str.	1/4	2.00	.75	.25	.44	45
TLU-W1S	1 Str.	1/4	2.00	.75	.25	.44	45
TLU-1/0S	1/0 Str.	3/8	2.00	.75	.25	.44	45
TLU-2/0S	2/0 Str.	3/8	2.63	1.00	.28	.56	66
TLU-3/0S	3/0 Str.	3/8	2.63	1.00	.28	.56	66
TLU-4/0S	4/0 Str.	3/8	2.63	1.00	.28	.56	66
TLU-025S	250 kcmil	1/2	3.25	1.19	.31	.75	76
TLU-030S	300 kcmil	1/2	3.25	1.19	.31	.75	76
TLU-035S	350 kcmil	1/2	3.75	1.38	.38	.75	99
TLU-040S	400 kcmil	1/2	3.75	1.38	.38	.75	99
TLU-050S	500 kcmil	1/2	3.75	1.38	.38	.75	99
TLU-060S	600 kcmil	1/2	3.75	1.63	.44	.75	112
TLU-070S	700 kcmil	1/2	3.75	1.63	.44	.75	112
TLU-075S	750 kcmil	1/2	3.75	1.63	.44	.75	112
TLU-080S	800 kcmil	1/2	4.50	1.88	.47	.94	130
TLU-090S	900 kcmil	5/8	4.50	1.88	.47	.94	130
TLU-100S	1000 kcmil	5/8	4.50	1.88	.47	.94	130
TLU-125S	1250 kcmil	5/8	5.00	2.25	.50	1.06	150
TLU-150S	1500 kcmil	5/8	5.00	2.25	.50	1.06	161
TLU-175S	1750 kcmil	5/8	5.88	2.50	.50	1.19	175
TLU-200S	2000 kcmil	5/8	6.13	2.75	.50	1.31	187

For blank pad, add suffix "-U" to catalog number

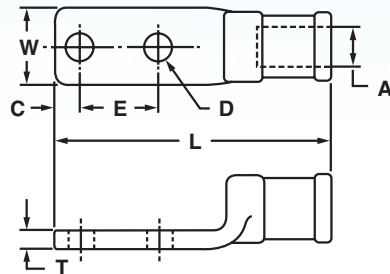
Above terminals can be installed with the following T&B Tooling: 12 ton head (13642), 20 ton head (21920), and 40 ton head (21940)

T&B is a registered trademark of its respective company

Heavy Duty Two Hole Cast Copper Compression Lugs

Type TLU-D

- Provides excellent mechanical strength
- Cast out of pure copper alloy for high conductivity
- Entire connector is electro-tin plated for corrosion resistance
- Can be installed with existing hydraulic crimping tools



CATALOG NUMBER	A CONDUCTOR SIZE	D BOLT SIZE	APPROXIMATE DIMENSIONS (IN.)					T & B DIE INDEX NO.
			L	W	T	C	E	
TLU-W8D	8 Str.	1/4	2.00	.50	.13	.34	.63	29
TLU-W6D	6 Str.	1/4	2.00	.50	.13	.34	.63	29
TLU-W4D	4 Str.	1/4	2.00	.50	.13	.34	.63	29
TLU-W2D	2 Str.	1/4	3.00	.75	.25	.50	.75	45
TLU-W1D	1 Str.	1/4	3.00	.75	.25	.50	1.00	45
TLU-1/0D	1/0 Str.	3/8	3.00	.75	.25	.50	1.00	45
TLU-2/0D	2/0 Str.	3/8	4.63	1.00	.28	.63	1.75	66
TLU-3/0D	3/0 Str.	1/2	4.63	1.00	.28	.63	1.75	66
TLU-4/0D	4/0 Str.	1/2	4.63	1.00	.28	.63	1.75	66
TLU-025D	250 kcmil	1/2	4.88	1.19	.31	.63	1.75	76
TLU-030D	300 kcmil	1/2	4.88	1.19	.31	.63	1.75	76
TLU-035D	350 kcmil	1/2	5.38	1.38	.38	.63	1.75	99
TLU-040D	400 kcmil	1/2	5.38	1.38	.38	.63	1.75	99
TLU-050D	500 kcmil	1/2	5.38	1.38	.38	.63	1.75	99
TLU-060D	600 kcmil	1/2	5.38	1.63	.44	.63	1.75	112
TLU-070D	700 kcmil	1/2	5.38	1.63	.44	.63	1.75	112
TLU-075D	750 kcmil	1/2	5.38	1.63	.44	.63	1.75	112
TLU-080D	800 kcmil	1/2	5.75	1.88	.47	.63	1.75	130
TLU-090D	900 kcmil	1/2	5.75	1.88	.47	.63	1.75	130
TLU-100D	1000 kcmil	1/2	5.75	1.88	.47	.63	1.75	130
TLU-125D	1250 kcmil	1/2	5.00	2.25	.50	.63	1.75	150
TLU-150D	1500 kcmil	1/2	5.00	2.25	.50	.63	1.75	161
TLU-175D	1750 kcmil	1/2	6.63	2.50	.50	.63	1.75	175
TLU-200D	2000 kcmil	1/2	6.63	2.75	.50	.63	1.75	187

For blank pad, add suffix "-U" to catalog number

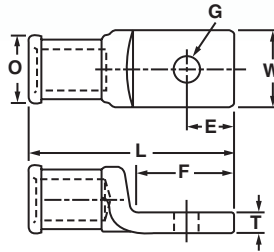
Above terminals can be installed with the following T&B Tooling: 12 ton head (13642), 20 ton head (21920), and 40 ton head (21940)

T&B is a registered trademark of its respective company

Heavy Duty One Hole Cast Copper Lugs - Side Formed for Diesel Locomotive Cable (DLO)

Type LL-S-SF

- Heavy duty cast copper compression lugs for traction motor applications
- Cast out of pure copper alloy for high conductivity
- Side formed design allows for conductor offset from mounting surface
- Electro-tin plated for corrosion resistance
- Suitable for installation with existing hydraulic crimping tools



CATALOG NUMBER	DLO CONDUCTOR SIZE	G BOLT SIZE	APPROXIMATE DIMENSIONS (IN.)						T&B DIE INDEX NO.
			L	F	E	O	W	T	
LL-49765-S-SF	150/24	1/4	1.88	.81	.38	.66	.63	.19	50
LL-47244-S-SF	225/24	3/8	2.13	1.00	.44	.72	.81	.22	54
LL-41157-S-SF	275/24	3/8	2.13	1.00	.44	.72	.81	.22	54
LL-53178-S-SF	325/24	3/8	2.13	1.00	.44	.72	.81	.22	54
LL-45087-S-SF	375/24	3/8	2.50	1.25	.56	.78	1.00	.25	60
LL-44593-S-SF	450/24	5/8	2.50	1.25	.53	.78	1.00	.25	60
LL-41158-S-SF	450/24	3/8	2.50	1.25	.53	.78	1.00	.25	60
LL-49332-S-SF	550/24	5/8	2.88	1.25	.75	1.05	1.19	.31	76
LL-44146-S-SF	550/24	3/8	2.88	1.50	.75	1.05	1.19	.31	76
LL-41159-S-SF	550/24	1/2	2.88	1.50	.75	1.05	1.19	.31	76
LL-42608-S-SF	650/24	1/2	2.88	1.50	.75	1.05	1.19	.31	76
LL-41160-S-SF	775/24	1/2	2.88	1.50	.75	1.05	1.19	.31	76
LL-40305-S-SF	775/24	3/8	3.06	1.50	.75	1.05	1.19	.31	76
LL-40744-S-SF	775/24	5/8	3.31	1.94	.75	1.05	1.19	.31	76
LL-42873-S-SF	925/24	1/2	3.38	1.50	.75	1.16	1.19	.34	87
LL-41149-S-SF	925/24	5/8	3.38	1.50	.75	1.16	1.19	.34	87
LL-47526-S-SF	1100/24	1/2	4.00	2.00	.88	1.34	1.63	.41	99
LL-44127-S-SF	1325/24	1/2	4.00	2.00	.88	1.38	1.63	.41	107
LL-44231-S-SF	1600/24	1/2	4.25	2.13	1.00	1.44	1.63	.44	112
LL-47742-S-SF	1600/24	3/4	4.25	2.13	1.00	1.44	1.63	.44	112
LL-47833-S-SF	1600/24	3/8	4.25	2.13	1.00	1.44	1.63	.44	112
LL-40862-S-SF	1925/24	1/2	4.25	2.13	1.00	1.44	1.63	.44	112
LL-50747-S-SF	2300/24	5/8	4.75	2.38	1.19	1.66	1.88	.50	130

For blank pad, add suffix "-U" to catalog number

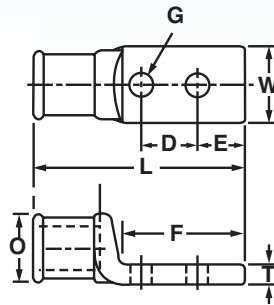
Above terminals can be installed with the following T&B Tooling: 12 ton head (13642), 20 ton head (21920), and 40 ton head (21940)

T&B is a registered trademark of its respective company

Heavy Duty Two Hole Cast Copper Lugs - Side Formed for Diesel Locomotive Cable (DLO)

Type LL-D-SF

- Heavy duty cast copper compression lugs for traction motor applications
- Cast out of pure copper alloy for high conductivity
- Side formed design allows for conductor offset from mounting surface
- Electro-tin plated for corrosion resistance
- Suitable for installation with existing hydraulic crimping tools



CATALOG NUMBER	DLO CONDUCTOR SIZE	G BOLT SIZE	APPROXIMATE DIMENSIONS (IN.)							T & B DIE INDEX NO.
			L	F	D	E	O	W	T	
LL-51797-D-SF	150/24	1/4	3.06	2.00	1.00	.34	.66	.63	.19	50
LL-49763-D-SF	225/24	3/8	3.13	2.00	1.00	.50	.72	.81	.22	54
LL-49764-D-SF	275/24	3/8	3.13	2.00	1.00	.50	.72	.81	.22	54
LL-46111-D-SF	450/24	1/2	4.25	3.00	1.25	.63	.78	1.00	.25	60
LL-49238-D-SF	550/24	3/8	3.31	1.94	1.00	.50	1.05	1.19	.31	76
LL-41147-D-SF	550/24	1/2	4.38	3.00	1.75	.63	1.05	1.19	.31	76
LL-47272-D-SF	650/24	1/2	4.38	3.00	1.75	.63	1.05	1.19	.31	76
LL-50774-D-SF	775/24	5/16	2.88	1.50	.81	.31	1.05	1.19	.31	76
LL-52078-D-SF	775/24	5/16	3.31	1.94	.88	.75	1.05	1.19	.31	76
LL-40467-D-SF	775/24	3/8	3.31	1.94	1.00	.50	1.05	1.19	.31	76
LL-49761-D-SF	775/24	1/2	4.38	3.00	1.75	.63	1.05	1.19	.31	76
LL-40743-D-SF	925/24	3/8	4.38	2.50	1.00	.44	1.16	1.19	.34	87
LL-41152-D-SF	925/24	3/8	5.38	3.50	1.00	.44	1.16	1.19	.34	87
LL-47521-D-SF	925/24	1/2	5.38	3.50	1.75	.63	1.16	1.19	.34	87
LL-50963-D-SF	1100/24	1/2	5.50	3.50	1.75	.63	1.38	1.63	.41	107
LL-41151-D-SF	1325/24	3/8	5.50	3.50	1.00	.50	1.38	1.63	.41	107
LL-41148-D-SF	1325/24	1/2	5.50	3.50	1.75	.63	1.38	1.63	.41	107
LL-49758-D-SF	1600/24	1/2	5.63	3.50	1.75	.63	1.44	1.63	.44	112
LL-52943-D-SF	1925/24	3/8	4.00	2.06	1.00	.44	1.44	2.00	.31	112
LL-41150-D-SF	1925/24	3/8	4.25	2.13	1.00	.44	1.44	1.63	.44	112
LL-42683-D-SF	1925/24	1/2	5.63	3.50	1.75	.63	1.44	1.63	.44	112
LL-49532-D-SF	2000/24	1/2	5.63	3.50	1.75	.63	1.44	1.63	.44	112
LL-47522-D-SF	2300/24	1/2	5.88	3.50	1.75	.63	1.66	1.88	.50	130
LL-50651-D-SF	2750/24	1/2	6.63	3.50	1.75	.63	1.91	2.13	.56	150

For blank pad, add suffix "-U" to catalog number

Above terminals can be installed with the following T&B Tooling: 12 ton head (13642), 20 ton head (21920), and 40 ton head (21940)

T&B is a registered trademark of its respective company

Heavy Duty Two Hole Cast Copper Lugs – Center Formed for Diesel Locomotive Cable (DLO)

Type LL-D-CF

- Heavy duty cast copper compression lugs for traction motor applications
- Cast out of pure copper alloy for high conductivity
- Center formed design maintains conductor alignment with mounting surface
- Electro-tin plated for corrosion resistance
- Suitable for installation with existing hydraulic crimping tools

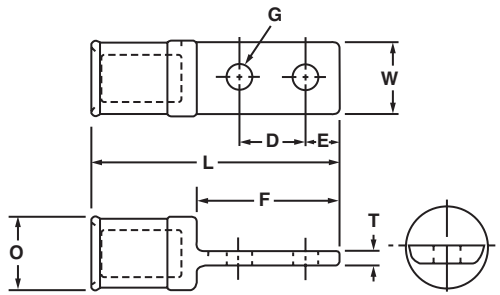
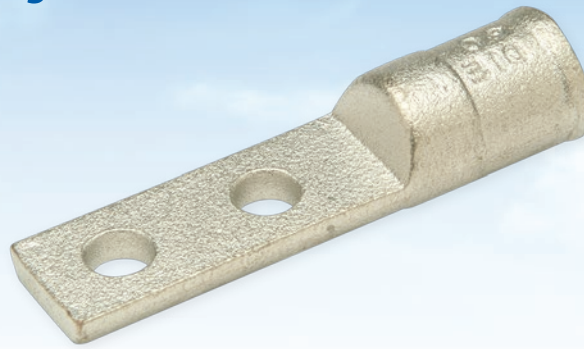


Fig. 1

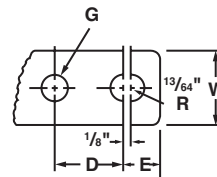


Fig. 2

CATALOG NUMBER	FIG. NO.	DLO CONDUCTOR SIZE	G BOLT SIZE	APPROXIMATE DIMENSIONS (IN.)							T&B DIE INDEX NO.
				L	F	D	E	O	W	T	
LL-47428-D-CF	1	133/24	5/16	2.94	1.88	.88	.44	.66	.59	.20	50
LL-47271-D-CF	1	150/24	5/16	2.94	1.88	.88	.44	.66	.59	.20	50
LL-44385-D-CF	1	225/24	5/16	3.00	1.88	.88	.44	.72	.69	.20	54
LL-50545-D-CF	1	275/24	5/16	3.00	1.88	.88	.44	.72	.69	.20	54
LL-44075-D-CF	1	325/24	5/16	3.00	1.88	.88	.44	.72	.69	.20	54
LL-41155-D-CF	1	375/24	5/16	3.13	2.00	.88	.44	.78	.78	.20	60
LL-41156-D-CF	1	450/24	5/16	3.13	2.00	.88	.44	.78	.78	.20	60
LL-36996-D-CF	1	550/24	5/16	3.19	1.88	.88	.44	1.05	.94	.20	76
LL-42596-D-CF	1	650/24	5/16	3.19	1.88	.88	.44	1.05	.94	.20	76
LL-41153-D-CF	1	775/24	5/16	3.19	1.88	.88	.44	1.05	.94	.20	76
LL-44131-D-CF	1	925/24	3/8	3.75	2.06	1.00	.44	1.19	1.13	.38	87
LL-44573-D-CF	1	1100/24	3/8	3.75	2.06	1.00	.44	1.34	1.34	.38	99
LL-44096-D-CF	1	1325/24	3/8	3.75	2.06	1.00	.44	1.38	1.34	.38	107
LL-43606-D-CF	2	1325/24	3/8	3.75	2.06	.88-1.00	.56	1.38	1.34	.38	107
LL-50429-D-CF	1	1600/24	3/8	3.75	2.06	1.00	.44	1.38	1.34	.38	107
LL-41154-D-CF	2	1925/24	3/8	3.81	2.06	.88-1.00	.56	1.44	1.44	.38	112
LL-42684-D-CF	1	2300/24	3/8	4.28	2.13	1.00	.44	1.66	1.59	.38	130

For blank pad, add suffix "-U" to catalog number

Above terminals can be installed with the following T&B Tooling: 12 ton head (13642), 20 ton head (21920), and 40 ton head (21940)

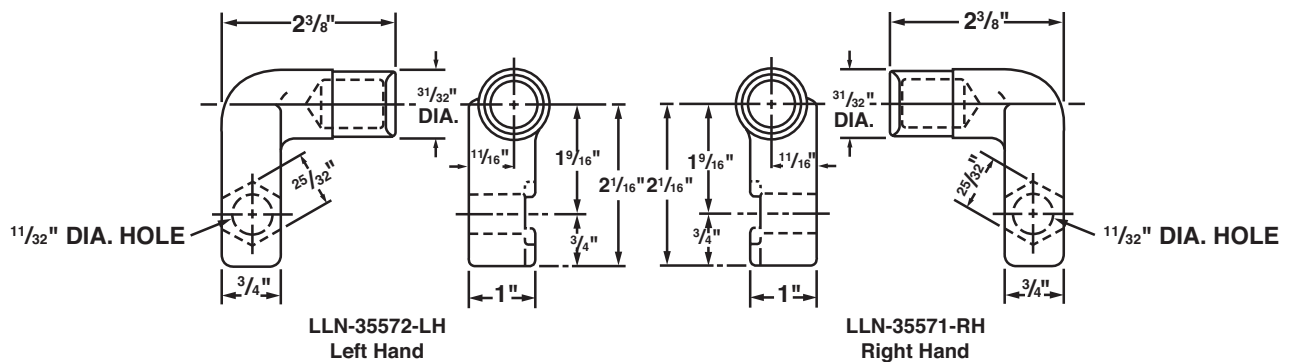
T&B is a registered trademark of its respective company

Cast Copper Elbows - 90°

Type LLN

For 775/24 DLO Conductor

- Heavy duty cast compression lugs used in a wide variety of mass transit applications including locomotives and traction motors
- Manufactured from high conductivity copper alloy
- Electro-tin plated for corrosion resistance
- Recessed hex pocket holds bolt head captive for single wrench installation
- Can be installed with industry standard crimping tools
- Also available in 550/24 by adding suffix "-550/24" to catalog number
- Recommended installation tooling:
 - For 775/24 end, use T&B die index number 76
 - For 550/24 end, use T&B die index number 76

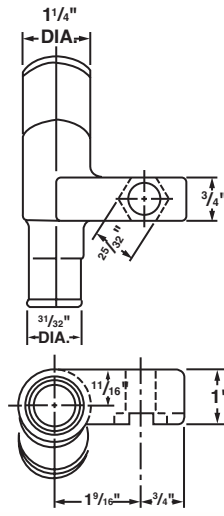


CAST COPPER REDUCERS

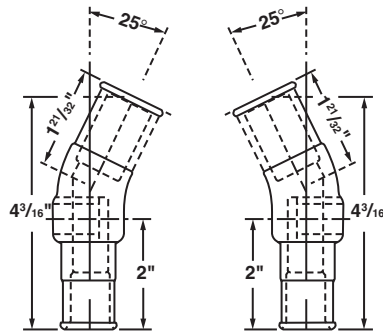
Cast Copper Reducers

Type LLR

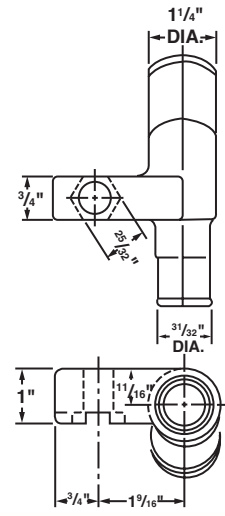
- Heavy duty cast compression lugs used in a wide variety of mass transit applications including locomotives and traction motors
- Manufactured from high conductivity copper alloy
- Electro-tin plated for corrosion resistance
- Recessed hex pocket holds bolt head captive for single wrench installation
- Can be installed with industry standard crimping tools
- Recommended installation tooling:
 - For 1100/24 end, use T&B die index number 99
 - For 775/24 end, use T&B die index number 76
 - For 550/24 end, use T&B die index number 76



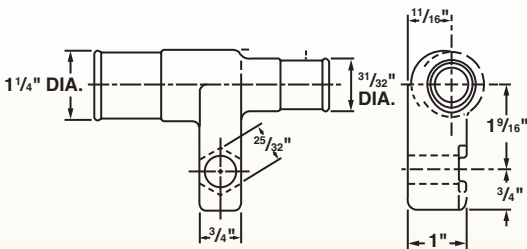
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1100/24-775/24



LLR-46103
1100/24-775/24



LLR-35570-RH 25
1100/24-775/24

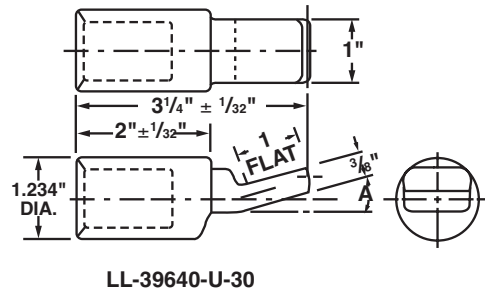
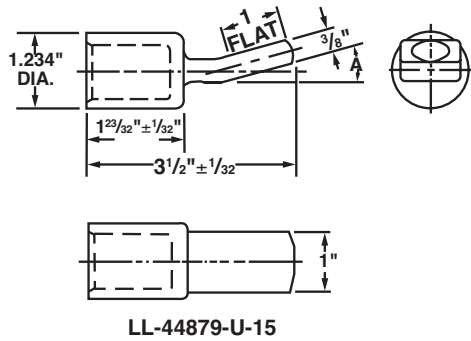


Cast Copper Lugs - Blank Tongue

Type LL-U

For 1100/24

- Heavy duty cast compression lugs used in a wide variety of mass transit applications including locomotive traction motors
- Manufactured from high conductivity copper alloy
- **Blank tongue allows for flexibility during field installation**
- For Electro-tin plating, suffix catalog number with "-TN"
- Recommended installation tooling:
 - For 1100/24 end, use T&B die index number 99

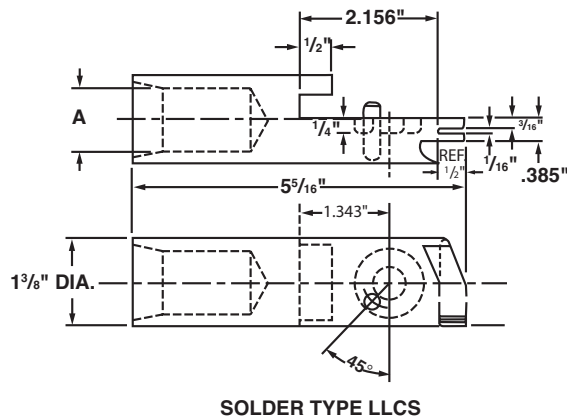
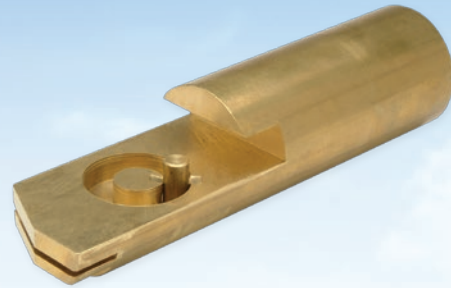


CATALOG NUMBER	A
LL-44879-U-15	15°
LL-39640-U-30	30°

Copper Clasp Connectors

Type LLCS

- Power connectors designed for traction motor lead applications
- Manufactured from high strength brass alloy
- This style of connector is also known in the industry as “Quick Disconnects”, “Jack-Knives”, “Glad Hands”, and “Handshake Connectors”
- Custom clasp connector designs can be engineered to suit specific requirements
- For silver plating, suffix catalog number with “-SV”



CATALOG NUMBER	CABLE HOLE DIAMETER A (IN.)	DLO CONDUCTOR SIZE
LLCS-38072	.94	1100/24
LLCS-38073	1.00	1325/24

Copper Quick Disconnect Terminals

**NEW
PRODUCT**

Type GHD



- Terminals are designed to provide exceptional electrical and mechanical performance in demanding applications including generators, motors, and transformers
- Standard interface allows terminal to mate with existing disconnect designs
- Connectors accommodate industry standard diesel locomotive conductor sizes from 1/0 AWG to 777 kcmil - widest breadth of product on the market
- Use industry standard tooling with compression dies recommended by Penn-Union
- Design accommodates a wide range of conductor insulation diameters
- Manufactured in the USA from high strength brass alloy
- Silver plated to withstand higher operating temperatures, provide greater conductivity and protection against corrosion
- Rigorously tested to MIL-SPEC and Industry Standards

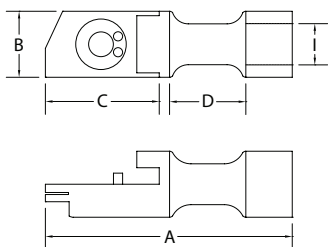


FIG. 1

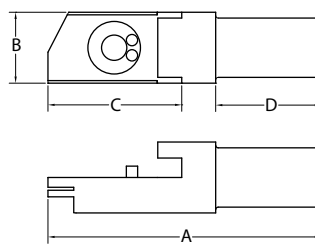


FIG. 2

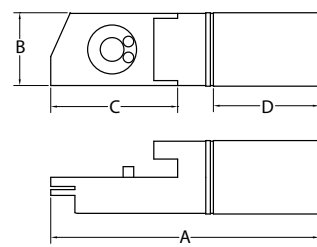


FIG. 3

CATALOG NUMBER	FIGURE NUMBER	DIESEL LOCOMOTIVE CABLE		APPROXIMATE DIMENSIONS (IN.)					PENN-UNION DIE CATALOG NO.	WIRE STRIP LENGTH
		AWG	STRANDING	A	B	C	D	I		
GHD-1/0-1	1	1/0 AWG	275/24	3.75	1.00	1.73	1.16	.66	T-70HS	1-1/8"
GHD-1/0-2								.73		
GHD-1/0-3								.59		
GHD-2/0-1	1	2/0 AWG	325/24	3.75	1.00	1.73	1.16	.71	T-95H	1-1/8"
GHD-2/0-2								.69		
GHD-2/0-3								.64		
GHD-2/0-4								.82		
GHD-3/0-1	1	3/0 AWG	450/24	3.75	1.00	1.73	1.16	.81	T-120H	1-1/8"
GHD-3/0-2								.72		
GHD-3/0-3								.73		
GHD-4/0-1	1	4/0 AWG	550/24	3.75	1.00	1.73	1.11	.81	T-150H	1-1/8"
GHD-262-1	1	262 kcmil	650/24	5.30	1.38	2.60	1.50	1.06	T-150HS	1-7/8"
GHD-313-1	2	313 kcmil	775/24	5.30	1.38	2.59	2.00	-	T-240HS	2-1/8"
GHD-373-1	2	373 kcmil	925/24	5.30	1.38	2.59	2.00	-	T-240H	2-1/8"
GHD-444-1	2	444 kcmil	1100/24	5.30	1.38	2.59	2.00	-	T-300H	2-1/8"
GHD-535-1	2	535 kcmil	1325/24	5.30	1.38	2.59	2.00	-	T-400HS	2-1/8"
GHD-646-1	3	646 kcmil	1600/24	5.30	1.38	2.59	2.00	-	T-400H	2-1/8"
GHD-777-1	3	777 kcmil	1925/24	5.52	1.49	2.63	2.25	-	T-777	2-3/8"

COPPER PRESS-ONS & C-TAPS

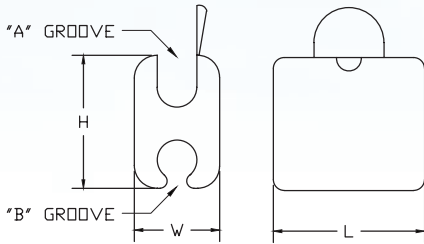
Copper Press-Ons

Types CST and CDT

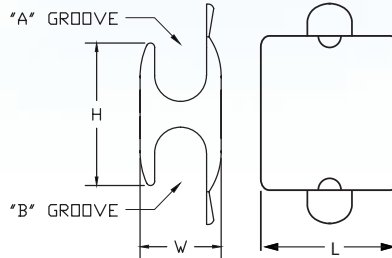
- Manufactured from high conductivity copper
- Tabs allow conductor to be easily held in place before crimping
- Center barrier separates conductors
- Suitable for direct burial in earth and concrete



TYPE CST



TYPE CDT



Single Tab Press-Ons - Type CST

CATALOG NUMBER	A GROOVE	B GROOVE	APPROXIMATE DIMENSIONS (IN.)			DIE SETS FOR HYD. TOOLS TPU-12B*
			L	H	W	
CST-301	6 Sol., 6 Str., 4 Sol.	8 Sol., 8 Str., 6 Sol. 6 Str., 4 Sol.	.81	.73	.47	U-BG or U-243
CST-302	4 Sol., 4 Str., 2 Sol.	6 Sol., 6 Str., 4 Sol. 4 Str., 2 Sol.	.81	.83	.55	

Double Tab Press-Ons - Type CDT

CATALOG NUMBER	A GROOVE	B GROOVE	APPROXIMATE DIMENSIONS (IN.)			DIE SETS FOR HYD. TOOLS TPU-12B*
			L	H	W	
CDT-399-8	6 Sol., 6 Str., 4 Sol.	8 Sol., 6 Str., 4 Sol.	.81	.75	.48	U-BG or U-243
CDT-398-8	4 Sol., 4 Str., 2 Sol.	4 Sol., 4 Str., 2 Sol.	.81	.80	.55	
CDT-304-8	2 Str., 1 Str., 1/0 Str.	6 Sol., 4 Sol., 4 Str., 2 Sol.	.86	1.13	.64	0
CDT-303-8		2 Str., 1 Str., 1/0 Str.	.83	1.13	.72	
• CDT-308-8	2/0 Str., 4/0 Str.	2 Str., 1 Str., 1/0 Str.	1.06	1.41	.91	D3
• CDT-307-8		2/0 Str., 4/0 Str.	1.06	1.38	.91	
CDT-310-8	1/0 Str. - 250 kcmil	1/0 Str. - 250 kcmil	1.15	1.57	.96	U-654

* Burndy Y-35 and Alcoa 12A tools both accept same dies

• For Canada, must add suffix "-C" for UL 467 listed product with oxide inhibitor for grounding and bonding

Mechanical Compression Tooling

CATALOG NUMBER	"O" TYPE TOOL DIE SETS	"W" DIE TYPE TOOL	
		TOOLS	DIE SET
CST-301	T	TMU-OD3	W-BG
CDT-399-8		MD6-8	
CST-302	K	TMU-OD3	W-KK
CDT-398-8		MD6-8	

Copper C-Taps

Type CCT

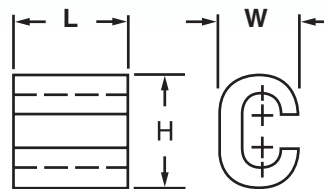
- Manufactured from high conductivity copper alloy
- Used for making tap or parallel copper connections
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation
- Installation time is reduced because of its “C” shape



CU
486A-B
467 SUITABLE
FOR DIRECT
BURIAL





ELECTRICAL
AND
GROUNDING



CATALOG NUMBER	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)			WIRE STRIP LENGTH	INSTALLATION TOOLING		
	RUN	TAP	L	H	W		PENN-UNION TOOL	DIE INDEX	NO. OF CRIMPS
CCT-46	6 Sol. - 4 Str.	6 Sol. - 6 Str.	.63	.75	.44	3/4"	TPU-12B	BG	1
CCT-44	6 Sol. - 4 Str.	4 Sol. - 4 Str.	.63	.81	.44	3/4"		BG	
CCT-24	2 Sol. - 2 Str.	8 Sol. - 4 Str.	.75	1.00	.63	7/8"		C	
CCT-22	2 Sol. - 2 Str.	2 Sol. - 2 Str.	.75	1.00	.63	7/8"		C	
CCT-2020	1/0 Str. - 2/0 Str.	1/0 Str. - 2/0 Str.	.94	1.38	.81	5/8"		0	
CCT-4020	3/0 Str. - 4/0 Str.	1/0 Str. - 2/0 Str.	1.06	1.63	1.00	13/16"		D3	
CCT-4040	3/0 Str. - 4/0 Str.	3/0 Str. - 4/0 Str.	1.06	1.56	1.00	13/16"		D3	

Copper Range Taking C-Taps

Type RTC

- Manufactured from high conductivity wrought copper
- Applications include copper to copper tapping, splicing or pigtail
- Compact size allows for easy taping and insulation of connection
- Color-coded for proper crimp die selection
- Design provides for low installation cost
-  to UL 486A-486B for power applications
-  to UL 467 for grounding, bonding and direct burial applications*
- Rated for 600 V applications at 90°C
- Range taking connector allows for lower inventory requirements

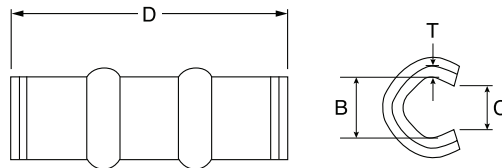


Fig. 1

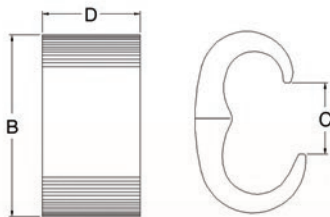


Fig. 2

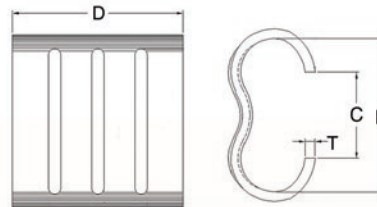


Fig. 3

See table for dimensions and installation tooling information

TYPE RTC DIMENSIONS & INSTALLATION TOOLING INFORMATION

CATALOG NUMBER	COPPER CONDUCTOR SIZE RANGES		FIG. NO.	NO. OF RIBS	APPROXIMATE DIMENSIONS (IN.)				WIRE STRIP LENGTH	CRIMP DIE COLOR CODE	COMPETITORS (Items noted as alternates are mostly due to wire range differences. Refer to competitor catalog for specifics.)			
	RUN	TAP			B	C	D	T			BURNDY	T&B	PANDUIT	NSI
RTC-1	14	14 - 16	1	0	.18	.10	.33	.07	1/2"	Red	YC10L12	54705	CTAPF10-16-C	CT-101
	12	12 - 16												
	10	14												
RTC-2	10	10	1	0	.24	.14	.61	.07	5/8"	Blue	YC8L12	54710	CTAPF8-12-C	CT-102
	8	12												
RTC-3	8	8-10	1	0	.32	.19	.61	.07	5/8"	Gray	YC6L12	54715 (alt.)	CTAPF6-12-C	CT-103
	6	10 - 12												
RTC-4	6	6 - 8	1	1	.39	.28	1.17	.07	1-1/4"	Brown	YC4L12	54720	CTAPF4-12-C	CT-104
	4	8 - 12												
RTC-5	4	4 - 6	1	1	.45	.26	1.17	.07	1-1/4"	Green	YC3L12	54725 (alt.)	CTAPF3-12-C	CT-105
	3	6 - 12												
RTC-6	4	4	1	1	.49	.30	1.17	.07	1-1/4"	Pink	YC2L12	54730 (alt.)	CTAPF2-12-C	CT-106
	3	4 - 6												
	2	6 - 12												
RTC-7	3	3 - 4	1	2	.53	.31	1.75	.07	2"	Black	YC1L12	54735	CTAPF1-12-C	CT-107
	2	4 - 6												
	1	4 - 12												
RTC-8	2	2 - 4	1	2	.61	.41	1.75	.09	2"	Orange	YC25L12	54740	CTAPF1/0-12-L	CT-108
	1	3 - 4												
	1/0	4 - 12												
RTC-9	1	1 - 2	1	2	.69	.42	1.75	.09	2"	Purple	YC26L12	54745	CTAPF2/0-12-Q	CT-109
	1/0	2 - 3												
	2/0	3 - 12												
RTC-10	1/0	1/0 - 1	1	2	.81	.46	1.75	.09	2"	Yellow	YC27L12	54750	CTAPF3/0-12-Q	CT-110
	2/0	1 - 2												
	3/0	2 - 12												
RTC-11	1	1	2	—	1.30	.51	.79	—	1"	Blue	YGH26C2 AND YGHC26C26 (both alt.)	54755	—	CTH-111
	1/0	1/0 - 2												
	2/0	2/0 - 4												
	3/0 - 4/0	1/0 - 6												
RTC-12	4/0	1 - 8	2	—	1.46	.57	.78	—	1"	Brown	—	54760	—	CTH-112
	2/0	2/0 - 1												
	3/0	3/0 - 2												
	4/0	4/0 - 4												
RTC-13	250	1/0 - 8	2	—	1.67	.67	1.03	—	1-1/8"	Pink	—	54765	—	CTH-113
	2/0	2/0 - 1												
	3/0	3/0 - 2												
	4/0	4/0 - 4												
RTC-14	250	3/0 - 6	2	—	1.71	.73	1.03	—	1-1/8"	Black	YGH-C29C26 & YGHC29C29 (both alt.)	54770	—	CTH-114
	300	2/0 - 8												
	4/0	4/0 - 2/0												
	250	250 - 1												
RTC-15*	300	4/0 - 4	2	—	1.85	.81	1.28	—	1-5/16"	Yellow	YGH34C26 AND YGHC34C29 (both alt.)	54775	—	CTH-115
	350	3/0 - 6												
	400	350 - 1/0												
	450	300 - 2												
	500	250 - 4												
RTC-16*	350	250 - 6	2	—	2.20	0.81	1.29	—	1-5/16"	White	YGH34C4 (alt.)	54780	—	CTH-116
	400	350 - 4/0												
	450	400 - 2/0												
RTC-17*	500	450 - 1	3	—	2.42	1.36	2.72	.16	2-3/4"	—	—	54785	—	CTH-117
	750-500	4/0 - 6										54790		
	750	750 - 4/0												

*Items are not cUL_{us} listed for grounding and bonding applications. BURNDY, T&B, PANDUIT and NSI are registered trademarks of their respective companies

ALUMINUM TERMINAL PLUGS

Aluminum Terminal Plugs

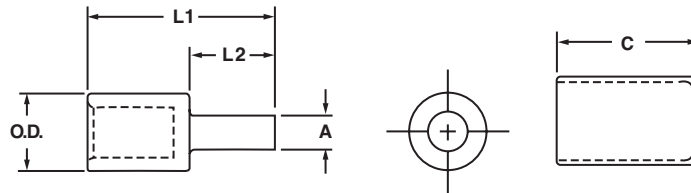
Type TP

For terminating copper or aluminum wire

- Manufactured from high-strength aluminum alloy, tin-plated and filled with oxide inhibitor for a cool running compression connection
- Optimum design to permit use of stranded copper or aluminum conductors in equipment such as panel boards, meter sockets and mechanical connectors contained in molded case circuit breakers
- Solid plug has same diameter as current carrying equivalent copper wire permitting the use of larger aluminum wire to connect equipment
- Connector is marked with catalog number, die index, color code and required number of crimps
- Insulating covers are supplied with each connector and are rated 600 V



486A-486B
LISTED
AL9CU



CATALOG NUMBER	COPPER & ALUMINUM CONDUCTOR SIZE	EQUIVALENT PIN SIZE	APPROXIMATE DIMENSIONS (IN.)					CRIMPING TOOL REFERENCE		
			A	O.D.	L1	L2	C	DIE COLOR CODE	PENN-UNION DIE CATALOG NO.	BURNDY DIE INDEX NO.
TP-6	6 Str.	#4 AWG	.23	.60	1.85	.68	1.75	Tan	T-296	296
TP-4	4 Str.	#4 AWG	.23	.60	1.85	.68	1.75			
TP-2	2 Str.	#4 AWG	.23	.60	1.85	.68	1.75			
TP-1	1 Str.	#3 AWG	.26	.60	2.01	.84	1.75			
TP-1/0	1/0 Str.	#2 AWG	.29	.60	2.01	.84	1.75	White	T-298	298
TP-2/0	2/0 Str.	#1 AWG	.33	.85	2.21	.84	2.25			
TP-3/0	3/0 Str.	1/0 AWG	.37	.85	2.59	1.22	2.25			
TP-4/0	4/0 Str.	2/0 AWG	.42	.85	2.59	1.22	2.25			
TP-250	250 kcmil	3/0 AWG	.47	1.10	2.63	1.22	2.50	Brown	T-299	299
TP-300	300 kcmil	4/0 AWG	.53	1.10	2.75	1.34	2.50			
TP-350	350 kcmil	250 kcmil	.57	1.10	2.75	1.34	2.50	Pink	T-300	300
TP-400	400 kcmil	300 kcmil	.63	1.31	3.08	1.60	2.87			
TP-500	500 kcmil	350 kcmil	.68	1.31	3.08	1.60	2.87	Yellow	-	936
TP-600	600 kcmil	400 kcmil	.73	1.46	3.67	1.64	3.75			
TP-750	750 kcmil	500 kcmil	.81	1.46	3.79	1.76	3.75			

Aluminum Terminal Plugs - Offset Pin

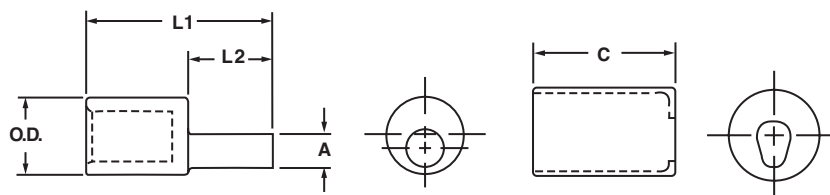
Type TPO

For terminating copper or aluminum wire

- Made of high strength aluminum alloy, tin-plated and filled with oxide inhibitor for a cool running compression connection
- Optimum design to permit use of stranded copper or aluminum conductors in equipment such as panel boards, meter sockets and mechanical connectors
- Offset pin allows for connector alignment flexibility
- Solid plug has same diameter as current carrying equivalent copper wire permitting the use of larger aluminum wire to connect equipment
- Connector is marked with catalog number, die index, color code and required number of crimps
- Insulating covers are supplied with each connector and are rated 600 V



486A-486B
LISTED
AL9CU



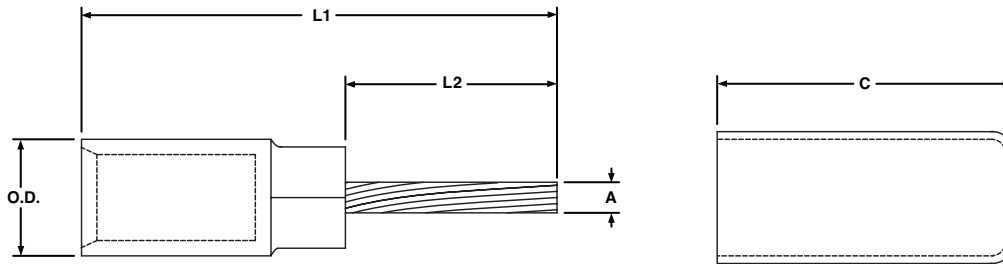
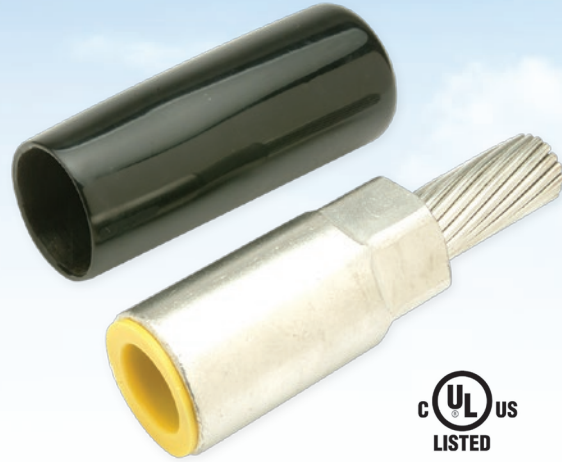
CATALOG NUMBER	CONDUCTOR SIZE	EQUIVALENT PIN SIZE	APPROXIMATE DIMENSIONS (IN.)					CRIMPING TOOL REFERENCE		
			A	O.D.	L1	L2	C	DIE COLOR CODE	PENN-UNION DIE CATALOG NO.	BURNDY DIE INDEX NO.
TPO-2/0	2/0 Str.	#1 AWG	.33	.85	2.70	1.13	2.25	White	T-298	298
TPO-3/0	3/0 Str.	1/0 AWG	.37	.85	2.80	1.25	2.25			
TPO-4/0	4/0 Str.	2/0 AWG	.42	.85	2.80	1.28	2.25			
TPO-250	250 kcmil	3/0 AWG	.47	1.10	3.00	1.28	2.50	Brown	T-299	299
TPO-300	300 kcmil	4/0 AWG	.53	1.10	3.10	1.47	2.50			
TPO-350	350 kcmil	250 kcmil	.57	1.10	3.10	1.47	2.50			
TPO-400	400 kcmil	300 kcmil	.63	1.32	3.40	1.69	2.87	Pink	T-300	300
TPO-500	500 kcmil	350 kcmil	.68	1.32	3.40	1.69	2.87			
TPO-600	600 kcmil	400 kcmil	.73	1.46	4.00	1.73	3.75	Yellow	-	936
TPO-750	750 kcmil	500 kcmil	.81	1.46	4.20	1.73	3.75			

BI-METALLIC TERMINAL PLUGS

Bi-Metallic Terminal Plugs

Type TPC

- Body is manufactured from high strength aluminum alloy
- Pigtail is manufactured from high conductivity copper
- Entire connector is electro-tin plated for corrosion resistance
- Designed to facilitate the termination of aluminum conductors to a copper or aluminum/copper rated mechanical lug
- Barrel is pre-filled with oxide inhibitor to seal out moisture and minimize conductor oxidation
- Color coded end plugs are inserted into barrel to seal out contaminants and facilitate proper compression die selection
- Insulating covers are supplied with each connector and are rated 600 V
- Connector is marked with catalog number, die index, color code and required number of crimps
- Rated for 600 V, 90°C applications



CATALOG NUMBER	ALUMINUM CONDUCTOR SIZE	EQUIVALENT PIN SIZE	APPROXIMATE DIMENSIONS (IN.)					CRIMPING TOOL REFERENCE		
			A	O.D.	L1	L2	C	DIE COLOR CODE	PENN-UNION DIE CATALOG NO.	BURNDY DIE INDEX NO.
TPC-6*	6 Str.	#8 AWG	.14	.60	2.13	.88	3.07	Orange	T-14	14
TPC-4	4 Str.	#6 AWG	.19	.60	2.46	.91	3.07			
TPC-2	2 Str.	#4 AWG	.23	.60	2.46	.93	3.07			
TPC-1	1 Str.	#3 AWG	.28	.60	2.54	1.01	3.07			
TPC-1/0*	1/0 Str.	#2 AWG	.29	.85	3.41	1.26	3.15	Red	T-324	324
TPC-2/0	2/0 Str.	#1 AWG	.32	.85	3.34	1.25	3.15			
TPC-3/0	3/0 Str.	1/0	.36	.85	3.60	1.46	3.15			
TPC-4/0	4/0 Str.	2/0	.40	.85	3.52	1.46	3.15			
TPC-250	250 kcmil	3/0	.44	1.10	3.86	1.55	3.55	Brown	T-299	299
TPC-300	300 kcmil	4/0	.52	1.10	4.09	1.70	3.55			
TPC-350	350 kcmil	4/0	.50	1.10	4.09	1.71	3.55	Pink	T-300	300
TPC-400	400 kcmil	250 kcmil	.58	1.32	4.36	1.98	3.74			
TPC-500	500 kcmil	350 kcmil	.68	1.32	4.19	1.84	3.74			
TPC-600	600 kcmil	350 kcmil	.69	1.46	4.95	1.90	4.14	Yellow	-	936
TPC-750	750 kcmil	500 kcmil	.79	1.46	5.01	2.00	4.14			

*cULus pending

ADDITIONAL WIRE SIZE RECOMMENDATIONS FOR COPPER COMPRESSION LUGS & SPLICES

TYPES: BCU, BCU-FL, BBCU, BBCU-FL, BLU, BLU-FL, BBLU, BBLU-FL, BBLZ

COPPER CONNECTOR CATALOG TYPE SPLICES & LUGS (1 & 2 HOLE)										
	CLASS B & C BUILDING WIRE CU CABLE SIZE & STRANDING	CLASS I WELD CABLE (#24 AWG CU STRANDS) SIZE & STRANDING	CLASS K WELD CABLE (#30 AWG CU STRANDS) SIZE & STRANDING	DIESEL LOCOMOTIVE CABLE (#24 AWG CU STRANDS) SIZE & STRANDING	CLASS H CABLE (NO. & DIA. OF WIRE) SIZE & STRANDING	CLASS G CABLE (NO. & DIA. OF WIRE) SIZE & STRANDING	CLASS M FLEXIBLE CABLE (#34 AWG CU STRANDS) SIZE & STRANDING	METRIC CABLE WIRE SIZE RANGE COPPER CABLE ONLY METRIC SIZE & DIA.	NAVY CABLE	AIR CRAFT
BCU-BBCU-BLU-BBLU-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-025	250 MCM 37 OR 61	NONE	NONE	NONE	NONE	NONE	3/0 AWG 4256/34	120MM ² 14.4MM	NONE	NONE
BCU-BBCU-BLU-BBLU-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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



CONNECTING YOUR TOMORROW.™

Construction

Utilities

Power Transmission

Industrial

Telecom

Renewable Energy

Aerospace

Rail Systems

MRO



OXIDE INHIBITORS




PENNUINION™
CONNECTING YOUR TOMORROW.™



Cual-Gel

- Non-melting, non-petroleum base compound that prevents oxidation and corrosion
- Multiple uses with conductors, connectors, and conduits
- Able to perform and protect under various environmental elements
- Has little or no effect on rubber and other insulating materials
- Cleans up easily with soap and water

CATALOG NUMBER	UNIT PACKAGING	CARTON QTY.
CUALGEL4OZ	4 oz. Squeeze Bottle	12
CUALGEL8OZ	8 oz. Squeeze Bottle	12
PTCUALGEL	1 pint Can	1
QTCUALGEL	1 quart Can	1
GALCUALGEL	1 gal. Can	1
5GALCUALGEL	5 gal. Can	1
CUALGEL55GAL	55 gal. Drum	1

Cual-Aid #11C

- Use with compression lugs and splices
- Recommended for aluminum to aluminum, aluminum to copper, conduit threads, and bolted applications
- Non-melting, non-petroleum base compound with suspended zinc particles
- Has little or no effect on rubber or other insulating materials



CATALOG NUMBER	UNIT PACKAGING	CARTON QTY.
40ZNO11C	4 oz. Squeeze Tube	12
1/2PTNO11C	8 oz. Squeeze Bottle	12
PTNO11C	1 pint Can	1
QTN011C	1 quart Can	1
GALNO11C	1 gal. Can	1
5GALNO11C	5 gal. Can	1
55GALNO11C	55 gal. Drum	1

Cual-Aid #12C

- Recommended for aluminum to aluminum and aluminum to copper compression applications
- Non-melting, non-petroleum base compound with suspended zinc particles and abrasive grit
- Abrasive grit breaks down surface oxides improving conductivity
- Not for use on threads or bolted applications
- Has little or no effect on rubber or other insulating materials

CATALOG NUMBER	UNIT PACKAGING	CARTON QTY.
1/2PTNO12C	8 oz. Squeeze Bottle	12
PTNO12C	1 pint Can	1
QTN012C	1 quart Can	1
GALNO12C	1 gal. Can	1
5GALNO12C	5 gal. Can	1
55GALNO12C	55 gal. Drum	1



Construction

Utilities

Power Transmission

Industrial

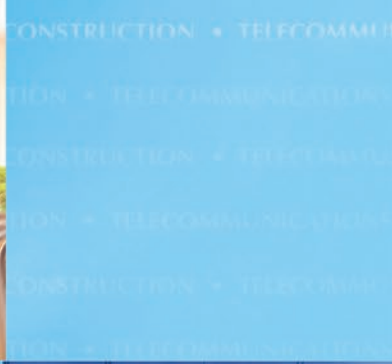
Telecom

Renewable Energy

Aerospace

Rail Systems

MRO



COMPRESSION TOOLS & DIES



Dieless Mechanical Compression Tool

TDM-250

ECONOMICAL

- Dieless - no dies to buy or lose
- Compression connectors are UL listed and CSA certified when installed in accordance with manufacturer's installation instructions
- Crimps #8-250 kcmil AL or CU
- Costs less than expensive hydraulic tools
- Quality construction - all-steel, durable construction
- Five year manufacturer's warranty for replacement or service

CONVENIENT TO USE

- Unique telescopic handle design provides increased leverage. At 250 kcmil, the TDM-250 requires less handle load than conventional 250 kcmil tools require at 250 kcmil
- Easily adjustable tool settings
- Easy-to-read settings are provided on calibrated index plates, one for AL and one for CU, located on the side of the tool
- Small head - 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 kcmil CU #8 - 250 kcmil AL
TDM-250XF	#8 - 4/0 EXTRA FLEXIBLE CU #8 - 250 kcmil CU

For use with: BLU, BBLU, BBLZ, BCU, BBCU, BCUR and BLY (use TDM-250XF) style copper connectors

LENGTH: 26.0 in. **WEIGHT:** 9.5 lbs.

Dieless Mechanical Compression Tool

TDM-500

ECONOMICAL

- Dieless - no dies to buy or lose
- Compression connectors are UL listed and CSA certified when installed in accordance with manufacturer's installation instructions
- Widest range available - crimps #8-500 kcmil AL or CU
- Costs less than expensive hydraulic tools
- Quality construction - all-steel, durable construction
- Five year manufacturer's warranty for replacement or service

CONVENIENT TO USE

- Unique telescopic handle design provides increased leverage. At 500 kcmil, the TDM-500 requires less handle load than conventional 250 kcmil tools require at 250 kcmil
- Easily adjustable tool settings
- Easy-to-read settings are provided on calibrated index plates, one for AL and one for CU, located on the side of the tool
- Small head - 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 kcmil CU #8 - 500 kcmil AL

For use with: BLU, BBLU, BBLZ, BCU, BBCU and BCUR style copper connectors

LENGTH: 27.4 in. **WEIGHT:** 9.9 lbs.

Mechanical Compression Tool with Rotating Dies

TDM-408

- Comfort grip handles reduce fatigue during continuous use
- Compression connectors are UL listed and CSA certified when installed in accordance with manufacturer's installation instructions
- Crimps all popular small to mid-range copper lugs and splices
- Built-in rotatable dies eliminate need to carry and maintain nine sets of dies
- Plated jaws ensure protection against corrosion



For use with: BLU, BBLU, BBLZ, BCU, BBCU and BCUR style copper connectors

CAPACITY: 8 - 4/0 AWG Copper Only

LENGTH: 24.4 in. **WEIGHT:** 8.8 lbs.

Mechanical Compression Tool

TMU-OD3

- Die inserts snap into the D3 groove with one hand and are locked into the tool with spring loaded positive lock die retainer buttons
- Versatile mechanical compression tool for full tension and non-tension splices
- Over center cam action
- High strength, butting, forged steel jaws
- Provides 4.5 tons of crimping force
- No additional dies required for "O" and "D3" size tap connectors; D3 Groove accommodates full line of industry standard "W" die inserts
- Bent handles and anti-slip grips for easier operation
- Tool adjustment easily checked and adjusted with allen wrench



For use with: CCT, CST and CDT style copper connectors; KO, KD, PIK, PSK, PSKS and DBTBF style aluminum connectors

CAPACITY: 14 - 4/0 AWG

LENGTH: 25.5 in. **WEIGHT:** 9.0 lbs.

Mechanical Ratchet Hand Crimp Tool

TRC-28

- For insulated and non-insulated terminals, and Type "RTC" copper C-Taps (RTC-2 through RTC-6)
- Full cycle ratcheting mechanism ensures proper crimp

CAPACITY: Insulated terminals 8 - 2 AWG;

Non-insulated terminals 6 - 1/0 AWG

LENGTH: 16.1 in. **WEIGHT:** 4.6 lbs.



Dieless Hand Operated Hydraulic Tool

12 TON OUTPUT FORCE

HDT-1000

- Dieless operation
- Twist handle release mechanism
- 7 indent profiles per crimp, requiring fewer crimps per connector
- Hinged head for easy removal of splices up to 1000 kcmil
- Automatic two-speed pump provides rapid advance reducing cycle time
- Audible pressure “pop-off” valve indicates crimp completion
- Easy installation with 180° swivel crimping head
- Includes durable high impact carrying case

CAPACITY: 3/0 AWG - 1000 kcmil Copper Lugs and Splices
1/0 AWG - 600 kcmil Aluminum Lugs and Splices

LENGTH: 25.0 in. **WEIGHT:** 17.0 lbs.



For use with: BLU, BBLU, BBLZ, BCU, BBCU, and BCUR style copper connectors

BLUA and BCUA style aluminum connectors

Die-Type Hand Operated Hydraulic Tool

12 TON OUTPUT FORCE WITH 1.0" JAW OPENING

TPU-12B

- Accepts all semi-circular slotted dies common to most 12 ton tools (“U” Dies)
- Die changes are easy with push button die locks
- Strong, lightweight fiberglass handles with twist release mechanism
- Automatic two-speed pump provides rapid advance reducing cycle time
- Audible pressure “pop-off” valve indicates crimp completion
- Easy installation with 180° swivel crimping head
- Compression connectors are UL listed and CSA certified when installed with specified die set
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 750 kcmil Aluminum & Copper Lugs
8 AWG - 400 kcmil Aluminum & Copper Splices

LENGTH: 22.9 in. **WEIGHT:** 13.9 lbs.



For use with: BLU, BBLU, BBLZ, BCU, BBCU, BCUR, BLY, CST, CDT, TLU, LL, LLR, and LLN style copper connectors

KO, KD, KN, PIK, PSK, PS, TP, TPO, PSS, PSKS, KBO, KKBO, KBD, KKBD, DBTBF, BCUA, BLUA, FKLA, FSLA, FULA style aluminum connectors

Die-Type Hand Operated Hydraulic Tool

12 TON OUTPUT FORCE - 1.65" JAW OPENING

TPU-12B42

- Large 1.65" jaw opening allows for easy installation of lugs and splices up to 750 kcmil
- Accepts all semi-circular slotted dies common to most 12 ton tools ("U" Dies)
- Die changes are easy with push button die locks
- Strong, lightweight fiberglass handles with twist release mechanism
- Automatic two-speed pump provides rapid advance reducing cycle time
- Audible pressure "pop-off" valve indicates crimp completion
- Easy installation with 180° swivel crimping head
- Compression connectors are UL listed and CSA certified when installed with specified die set
- Includes durable high impact carrying case



For use with: BLU, BBLU, BBLZ, BCU, BBCU, BCUR, TLU, LL, LLR, and LLN style copper connectors

KO, KD, KN, PIK, PSK, PS, PSS, PSKS, KBO, KKBO, KBD, KKBD, DBTBF, BCUA, BLUA, FKLA, FSLA and FULA style aluminum connectors

CAPACITY: 8 AWG - 750 kcmil Aluminum & Copper Lugs and Splices

LENGTH: 25.2 in. **WEIGHT:** 18.0 lbs.

Dieless Hand Operated Hydraulic Tool

6 TON OUTPUT FORCE

TPU-6

- Dieless installation system utilizes four indentors to make crimp, eliminates need to purchase and maintain dies
- Automatic two-stage pumping piston for rapid advance
- Audible pressure "pop-off" valve indicates crimp completion
- Strong, lightweight fiberglass handles with twist release mechanism
- Easy installation with 360° swivel crimping head
- UL listed and CSA certified range taking crimp connections when used with Penn-Union copper color-coded lugs and splices (6 AWG - 500 kcmil)
- Includes durable high impact carrying case



For use with: BLU, BBLU, BBLZ, BCU, BBCU, and BCUR style copper connectors

CAPACITY: 8 AWG - 500 kcmil Copper Lugs and Splices

LENGTH: 23.6 in. **WEIGHT:** 11.0 lbs.

Die-Type Hand Operated Hydraulic Tool

18 TON OUTPUT FORCE

TPU-18B

- Accepts all semi-circular slotted “U” dies
- Die changes are easy with push button die locks
- Removable end cap for easy removal of splice connections
- Automatic two-stage pump for rapid advance
- Audible pressure “pop-off” valve indicates crimp completion
- Easy turn valve release for rapid ram retraction
- Comfortable rubber grip handles help reduce operator fatigue
- Easy installation with 180° swivel crimping head
- Compression lugs and splices are UL listed and CSA certified when installed with specified die set
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 1250 kcmil Copper Lugs and Splices
8 AWG - 1000 kcmil Aluminum Lugs and Splices

LENGTH: 25.6 in. **WEIGHT:** 14.3 lbs.



For use with: BLU, BBLU, BBLZ, BCU, BBCU, BCUR, TLU, LL, LLR, and LLN style copper connectors

KO, KD, KN, PIK, PSK, PS, PSS, TP, TPO, PSS, PSKS, KBO, KKBO, KBD, KKBD, DBTBF, BCUA, BLUA, FKLA, FSLA, and FULA style aluminum connectors

Dieless Hand Operated Hydraulic Tool

6 TON OUTPUT FORCE

TPU-6FT

- Dieless installation system utilizes four indentors to make the crimp, eliminates need to purchase and maintain dies
- Flip top allows easy removal of splice connections
- Automatic two-stage piston for rapid advance
- Audible pressure “pop-off” valve indicates crimp completion
- Strong, lightweight fiberglass handles with twist release mechanism
- Easy installation with 360° swivel crimping head
- UL listed and CSA certified crimp connections when used with Penn-Union copper color-coded lugs and splices (6 AWG - 750 kcmil)
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 750 kcmil Aluminum & Copper Lugs and Splices

LENGTH: 22.8 in. **WEIGHT:** 11.5 lbs.

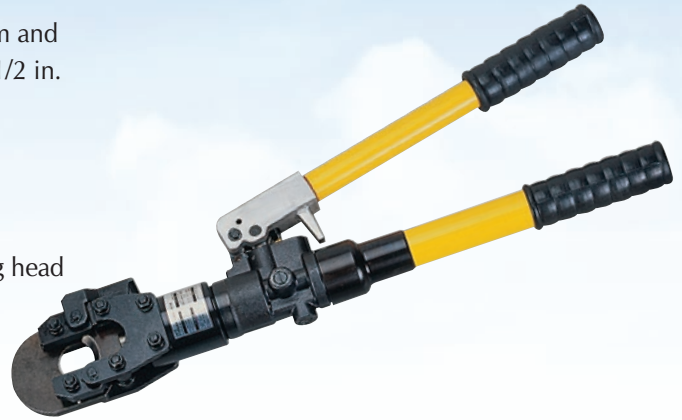


For use with: BLU, BBLU, BBLZ, BCU, BBCU, and BCUR style copper connectors

Hand Operated Hydraulic Cutter

HCT-1000

- Automatic two-speed pump for cutting copper, aluminum and ACSR conductor, soft steel bar up to 5/8 in., rebar up to 1/2 in.
- Heat treated steel cutting blades for durability
- Hinged flip top cutting head
- Twist handle release mechanism
- Easy operation and accessibility with 180° swivel cutting head
- 1-year limited warranty (excluding blades)
- Includes nylon bag with carrying strap



CAPACITY: Aluminum & Copper Conductor up to 1000 kcmil
ACSR up to 1033.5 kcmil
Steel Bar up to 5/8 in.
Rebar up to 1/2 in.

LENGTH: 23.8 in. **WEIGHT:** 12.1 lbs.

Remote Operated Hydraulic Tool

60 TON OUTPUT FORCE

TPU-60

- Application: substation and transmission connector installations
- Accepts industry standard 60 ton “L” type dies currently used with BURNDY, ALCOA and HUSKIE 60 ton presses
- Easy die set installation, top of head swivels 90° for easy connector removal
- Includes aluminum base for added stability and metal carrying case with storage room for dies

CAPACITY: For 1000 kcmil and 1500 kcmil HBLTU Style crimp lugs (UL listed only). Suitable for copper and aluminum stranded cable up to 2000 kcmil

OPERATING PRESSURE: 10,000 psi **TYPE:** Single Acting

OIL VOLUME: 303 cc **RAM STROKE:** 1.5 in. Travel

MAX CONNECTOR: O.D. 2.36 in.

HEIGHT: 15.6 in. **WEIGHT:** 67.0 lbs.



For use with: HBLTU style copper connectors

Remote Operated Hydraulic Tool

12 TON OUTPUT FORCE - 1.00" JAW OPENING

TPU-12BH

- Accepts all semi-circular slotted dies common to most 12 ton tools (“U” dies)
- Die changes are easy with push button die locks
- Integral lifting eye for easy maneuverability
- Compatible with universal hot-stick tooling
- Internal ram spring retracts jaw when pump pressure is relieved
- Compression connectors are UL listed and CSA certified when installed with specified die set
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 750 kcmil Aluminum & Copper Lugs
8 AWG - 400 kcmil Aluminum & Copper Splices

LENGTH: 8.3 in. **WEIGHT:** 7.9 lbs.



For use with: BLU, BBLU, BBLZ, BCU, BBCU, BCUR, BLY, CST, CCT, TLU, LL, LLR, and LLN style copper connectors

KO, KD, KN, PIK, PSK, PS, TP, TPO, PSS, PSKS, KBO, KKBO, KBD, KKBD, DBTBF, BCUA, BLUA, FKLA, FSLA, and FULA style aluminum connectors

Remote Operated Hydraulic Tool

12 TON OUTPUT FORCE - 1.65" JAW OPENING

TPU-12B42H

- Accepts all semi-circular slotted dies common to most 12 ton tools ("U" dies)
- Die changes are easy with push button die locks
- Integral lifting eye for easy maneuverability
- Internal ram spring retracts jaw when pump pressure is relieved
- Compression connectors are UL listed and CSA certified when installed with specified die set
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 750 kcmil Aluminum & Copper Lugs and Splices

LENGTH: 9.9 in. **WEIGHT:** 11.7 lbs.



For use with: BLU, BBLU, BBLZ BCU, BBCU, BCUR, TLU, LL, LLR and LLN style copper connectors

KO, KD, KN, PIK, PSK, PS, PSS, PSKS, KBO, KKBO, KBD, KKBD, DBTBF, BCUA, BLUA, FKLA, FSLA and FULA style aluminum connectors

Remote Operated Hydraulic Tool

18 TON OUTPUT FORCE

TPU-18BH

- Removable end cap allows for easy removal of splice connections
- Captive knurled steel pin locks end cap securely in place
- Internal ram spring retracts jaw when pump pressure is relieved
- Compression connectors are UL listed and CSA certified when installed with specified die set
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 1250 kcmil Copper Lugs and Splices
8 AWG - 1000 kcmil Aluminum Lugs and Splices

LENGTH: 9.4 in. **WEIGHT:** 10.6 lbs.



For use with: BLU, BBLU, BBLZ, BCU, BBCU, BCUR, TLU, LL, LLR and LLN style copper connectors

KO, KD, KN, PIK, PSK, PS, PSS, PSKS, KBO, KKBO, KBD, KKBD, BCUA, DBTBF, BLUA, FKLA, FSLA, and FULA style aluminum connectors

Dieless Remote Operated Hydraulic Tool

6 TON OUTPUT FORCE

TPU-6H

- Dieless installation system utilizes four indentors to make crimp - eliminates the need to purchase and maintain dies
- UL listed and CSA certified range taking crimp connections when used with Penn-Union copper color-coded lugs and splices (6 AWG - 500 kcmil)
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 500 kcmil Aluminum and Copper Lugs and Splices

LENGTH: 10.6 in. **WEIGHT:** 6.2 lbs.



For use with: BLU, BBLU, BBLZ, BCU, BBCU, and BCUR style copper connectors

Remote Operated Hydraulic Tool

15 TON OUTPUT FORCE

TPU-1500H

- Compatible with industry standard 15 ton “P” dies as well as standard 12 ton “U” dies with the PU-15 adapter (pg. 98)
- 1.97 in. jaw opening, 1.67 in. jaw opening with “U” die adapter
- 15 ton output with any 10,000 psi hydraulic pump
- Compression lugs and splices are UL listed and CSA certified when installed with specified die set
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 1500 kcmil Copper Lugs and Splices
8 AWG - 1250 kcmil Aluminum Lugs and Splices

LENGTH: 11.8 in. **WEIGHT:** 15.4 lbs.



For use with: BLU, BBLU, BBLZ, BCU, BBCU, BCUR, TLU, LL, LLR, and LLN style copper connectors

BLUA, BCUA, DBTBF, KO, KD, KN, PIK, PSK, PS, PSS, PSKS, KBO, KKBO, KBD, KKBD, FKLA, FSLA, and FULA style aluminum connectors

Dieless Remote Operated Hydraulic Tool

6 TON OUTPUT FORCE

TPU-6FTH

- Dieless installation system utilizes four indentors to make crimp - eliminates the need to purchase and maintain dies
- Flip top design with pull pin locking mechanism
- Accepts larger connectors up to 750 kcmil
- UL listed and CSA certified range taking crimp connections when used with Penn-Union copper color-coded lugs and splices (6 AWG - 750 kcmil)
- Includes durable high impact carrying case

CAPACITY: 8 AWG - 750 kcmil Aluminum & Copper Lugs and Splices

LENGTH: 11.0 in. **WEIGHT:** 6.6 lbs.

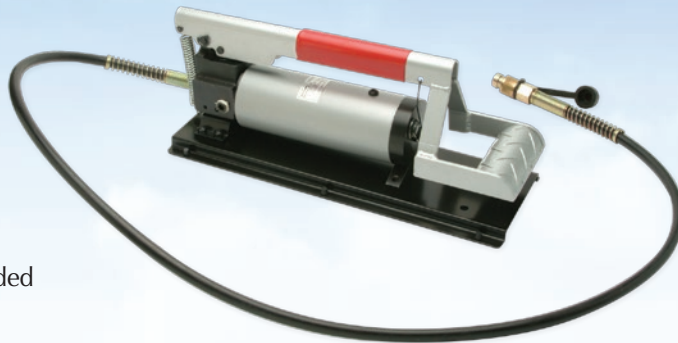


For use with: BLU, BBLU, BBLZ, BCU, BBCU, and BCUR style copper connectors

10,000 PSI Manual Foot Pump

M-FP

- Two-stage operation provides rapid advance
- Automatic safety bypass valve actuates when reaching maximum pressure
- Knob type release valve
- Integral handle lock for easy carrying
- Hydraulic hose (6 ft.) with Quick Connect coupler included



RESERVOIR CAPACITY: .74 qt.

LENGTH: 18.7 in. **WIDTH:** 6.8 in. **HEIGHT:** 7.5 in. **WEIGHT:** 24.0 lbs.

10,000 PSI Manual Hand Pump

M-HP

- Two-stage operation provides rapid advance
- Automatic safety bypass valve actuates when reaching maximum pressure
- Knob type release valve
- Integral handle lock for easy carrying
- Hydraulic hose (6 ft.) with Quick Connect coupler included



RESERVOIR CAPACITY: .74 qt.

LENGTH: 26.7 in. **WIDTH:** 4.4 in. **HEIGHT:** 5.9 in. **WEIGHT:** 17.6 lbs.

10,000 PSI Electric/Hydraulic Pump

HP-3000

- For use with all Penn-Union remote tools
- Includes pendant control with 6 ft. operating cord allowing user to advance and retract at will
- Low pressure provides fast ram advance, pump automatically changes over to low volume high pressure
- Hydraulic hose (6 ft.) with Quick Connect coupler included
- Red LED light to confirm pump is in "on" position
- Cast aluminum reservoir
- Integral handles for easy portability
- Convenient inspection window for quick check of reservoir oil level



RESERVOIR CAPACITY: 3.17 qt. **LENGTH:** 9.0 in. **WIDTH:** 7.5 in. **HEIGHT:** 16.2 in. **WEIGHT:** 48.7 lbs. with oil

Battery-Actuated Hydraulic Tool

12 TON OUTPUT FORCE - 1.65" JAW OPENING

TPU-42B

- 18v LI-ION battery operation
- Provides up to 70% more crimp cycles than with Ni-Cd batteries
- Integral LED work light and built-in diagnostics
- Accepts all semi-circular slotted dies common to most 12 ton tools ("U" dies)
- Audible pressure "pop-off" valve indicates crimp completion
- Easy installation with 360° swivel crimping head
- Aluminum and copper color-coded lugs and splices are UL listed and CSA certified when installed with specified die set
- Can be used with Tool Analyzer ST-100 (pg. 100) to retrieve tool statistics
- Includes high impact carrying case, lanyard, die compartment & battery charger

CAPACITY: 8 AWG - 750 kcmil Aluminum & Copper Lugs and Splices

LENGTH: 16.5 in. **WIDTH:** 3.0 in.

HEIGHT: 11.8 in. **WEIGHT:** 17.6 lbs.



*For use with: BLU, BBLU, BBLZ, BCU, BBCU, BCUR, TLU, LL, LLR, and LLN style copper connectors
KO, KD, KN, PIK, PSK, PS, PSS, PSKS, KBO, KKBO, KBD, KKBD, DBTBF, BCUA, BLUA, FKLA, FSLA, and FULA style aluminum connectors*

Dieless Battery-Actuated Hydraulic Tool

12 TON OUTPUT FORCE

HDT-1000B

- Dieless operation
- 7 indent profiles per crimp, requiring fewer crimps per connector
- Hinged head for easy removal of splices up to 1000 kcmil
- Audible pressure “pop-off” valve indicates crimp completion
- Easy installation with 180° swivel crimping head
- 18v LI-ION battery operation
- Provides up to 70% more crimp cycles than with Ni-Cd batteries
- Integral LED work light
- Includes durable high impact carrying case with lanyard, & battery charger

CAPACITY: 3/0 AWG - 1000 kcmil Copper Lugs and Splices

1/0 AWG - 600 kcmil Aluminum Lugs and Splices

LENGTH: 17.1 in. **WIDTH:** 3.0 in.

HEIGHT: 14.2 in. **WEIGHT:** 17.3 lbs.



*For use with BLU, BBLU, BBLZ, BCU, BBCU,
and BCUR style copper connectors
BLUA and BCUA style aluminum connectors*

Dieless Battery-Actuated Hydraulic Tool

6 TON OUTPUT FORCE

TPU-6B

- 18v LI-ION battery operation
- Provides up to 70% more crimp cycles than with Ni-Cd batteries
- Integral LED work light and built-in diagnostics
- Dieless installation system utilizes four indentors to make the crimp, eliminates the need to purchase and maintain dies
- Audible pressure “pop-off” valve indicates crimp completion
- UL listed and CSA certified crimp connections when used with Penn-Union copper color-coded lugs and splices (6 AWG - 500 kcmil)
- Can be used with Tool Analyzer ST-100 (pg. 100) to retrieve tool statistics
- Includes durable high impact carrying case with lanyard and battery charger



For use with: BLU, BBLU, BBLZ, BCU, BBCU, and BCUR style copper connectors

CAPACITY: 8 AWG - 500 kcmil Aluminum & Copper Lugs and Splices

LENGTH: 14.2 in. **WIDTH:** 3.0 in. **HEIGHT:** 13.5 in. **WEIGHT:** 12.2 lbs.

Dieless Battery-Actuated Hydraulic Tool

6 TON OUTPUT FORCE

TPU-6FTB

- 18v LI-ION battery operation
- Provides up to 70% more crimp cycles than with Ni-Cd batteries
- Integral LED work light and built-in diagnostics
- Flip top design with pull pin locking mechanism allows for easy cable positioning and removal
- Accepts larger connectors up to 750 kcmil
- Dieless installation system utilizes four indentors to make the crimp, eliminates the need to purchase and maintain dies
- Audible pressure “pop-off” valve indicates crimp completion
- UL listed and CSA certified crimp connections when used with Penn-Union color-coded lugs and splices (6 AWG - 750 kcmil)
- Can be used with Tool Analyzer ST-100 (pg. 100) to retrieve tool statistics
- Includes durable high impact carrying case with lanyard and battery charger



For use with: BLU, BBLU, BBLZ, BCU, BBCU, and BCUR style copper connectors

CAPACITY: 8 AWG - 750 kcmil Aluminum & Copper Lugs and Splices

LENGTH: 14.2 in. **WIDTH:** 3.0 in. **HEIGHT:** 14.5 in. **WEIGHT:** 13.0 lbs.

Battery-Actuated Ratchet Cable Cutter

BCT-750

- 18v LI-ION battery operation
- Light weight hook head type design
- Hardened steel blades for long life
- Ergonomic space saving design
- Includes high impact carrying case with lanyard and battery charger

CUTTING CAPACITY: 750 kcmil Hard Drawn Copper
1000 kcmil Soft Drawn Copper
1000 kcmil Aluminum

LENGTH: 4.2 in. **WIDTH:** 4.6 in. **HEIGHT:** 14.8 in. **WEIGHT:** 4.4 lbs.



Battery-Actuated Hydraulic Cable Cutter

BCTA-1000

- 18v LI-ION battery operation
- 180° head rotation for easy operation
- Light weight and portable
- Flip top head design with positive latch
- Includes high impact carrying case with lanyard and battery charger

CUTTING CAPACITY: Aluminum & Copper Conductors up to 1.29" Diameter (1250 kcmil)
ACSR up to 1113 kcmil

LENGTH: 16.9 in. **WIDTH:** 2.9 in. **HEIGHT:** 12.2 in. **WEIGHT:** 20.3 lbs.



Heavy-Duty Cable Cutter

CT-2/0

- Forged steel construction for durability and long life
- Insulated handles

CUTTING CAPACITY: Aluminum & Copper Conductors Only - up to 2/0 AWG

LENGTH: 9.2 in. **WEIGHT:** 1.1 lbs.



High Quality Manual Cable Cutter

CT-250

- Designed for easy cutting, minimum cable distortion and long life
- Heat treated durable steel blades
- Economical, lightweight, compact design fits easily into tool boxes
- Steel handles with non-slip rubber grips
- 1-year limited warranty (excluding blades)

CUTTING CAPACITY: Aluminum & Copper Conductors Only - up to 250 kcmil

LENGTH: 11.8 in. **WEIGHT:** 1.5 lbs.



High Quality Manual Cable Cutter

CT-500

- Designed for easy cutting, minimum cable distortion and long life
- Heat treated durable steel blades
- Economical, lightweight, compact design fits easily into tool boxes
- Steel handles with non-slip rubber grips
- 1-year limited warranty (excluding blades)

CUTTING CAPACITY: Aluminum & Copper Conductors Only - up to 500 kcmil

LENGTH: 20.9 in. **WEIGHT:** 2.6 lbs.



Manual Ratchet Cable Cutter

CT-750

- Simple one-hand operation
- Compact ratchet design for tight work spaces
- Rust resistant black oxide finish
- Heat treated steel cutting blades can be opened mid-cycle
- 1-year limited warranty (excluding blades)

CUTTING CAPACITY: Aluminum & Copper Conductors Only - up to 750 kcmil

LENGTH: 9.4 in. **WEIGHT:** 2.1 lbs.



Manual Ratchet Cable Cutter

CT-1000

- Two-handed operation provides additional leverage, makes cutting larger cables easier
- Ratcheting mechanism and compact design allow for use in tight spaces
- Cutting blades can be opened mid-cycle
- Steel handles with non-slip rubber grips
- 1-year limited warranty (excluding blades)

CUTTING CAPACITY: Aluminum & Copper Conductors Only
- up to 1000 kcmil

LENGTH: 16.9 in. **WEIGHT:** 2.0 lbs.



Manual Ratchet Cable Cutter

CTA-750

- Two cutting actions - fast scissor, quickly cut small cable in scissor mode, cutter converts automatically to ratchet mode for larger cables
- 1-year limited warranty (excluding blades)

CUTTING CAPACITY: Aluminum & Copper Conductors
- up to 750 kcmil
ACSR Conductor up to 636 kcmil (30/19)
Soft Steel Rod up to 1/2 in.

LENGTH: 31.5 in. **WEIGHT:** 11.0 lbs.



Drill-Actuated Cable Cutter

DCT-750

- Time saving cable cutter easily attaches to any cordless or corded drill motor that accepts a 3/8" drive shaft
- Rugged metal housing with durable gears for long life
- Contour machined blade design minimizes cable distortion
- Replaceable heat-treated durable steel blades
- Ergonomically designed handle for comfort and control
- 1-year limited warranty (excluding blades)

CUTTING CAPACITY: Aluminum & Copper Conductors Only - up to 750 kcmil

LENGTH: 8.7 in. **WIDTH:** 8.7 in. **HEIGHT:** 3.5 in. **WEIGHT:** 6.2 lbs.



(Drill not included)

Ratchet-Controlled Crimping Tool

NON-INSULATED TERMINALS 22 - 8 AWG

HTC-228

- Locking ratchet control design ensures a proper fully completed crimp every time

LENGTH: 9.3 in. WEIGHT: 1.0 lb.



Ratchet-Controlled Crimping Tool

INSULATED TERMINALS 22 - 14 AWG

HTC-2214

- Color-coded die grooves for easy identification
- Locking ratchet control design ensures a proper fully completed crimp every time

LENGTH: 8.5 in. WEIGHT: 1.1 lbs.



Ratchet-Controlled Crimping Tool

INSULATED TERMINALS 12 - 10 AWG

HTC-1210

- Locking ratchet control design ensures a proper, fully completed crimp every time

LENGTH: 12.8 in. WEIGHT: 2.0 lbs.



Ratchet-Controlled Crimping Tool

NON-INSULATED TERMINALS (TYPE PT) 18-10 AWG, 14-8 AWG

HTC-1808

- Locking ratchet control design ensures a proper, fully completed crimp every time
- Insulated handles for ease of operation and comfort
- Crimping die grooves are marked with conductor range

LENGTH: 9.8 in. WEIGHT: 1.3 lbs.



General Purpose Crimping Tool

INSULATED AND NON-INSULATED TERMINALS 22 - 10 AWG

HTS-1

- Integrated bolt cutter and wire stripper
- Easy wire cutting with anvil type wire cutter
- Durable heavy gauge steel construction with cushioned plastic handles
- Color-coded crimping grooves for easy identification

LENGTH: 9.0 in. WEIGHT: .7 lbs.



Heavy-Duty Ratchet-Type Crimping Tool

INSULATED TERMINALS 22 - 10 AWG

HTC-3200

- Color-coded die grooves for easy identification
- Locking ratchet control design ensures a proper fully completed crimp every time

LENGTH: 9.0 in. WEIGHT: .9 lbs.



Multi-Purpose 7-in-1 Tool

MP-1810

- Wire stripper, steel wire cutter, pliers, wire loop, scale mm/in., crimping tool with grinding blades
- High carbon steel tool with black oxide finish
- Serrated nose grip for easy wire pulling and straightening
- Contoured grips for comfort and control

CAPACITY: 18 - 10 AWG

LENGTH: 6.7 in. WEIGHT: .3 lbs.



Multi-Purpose 7-in-1 Tool

MP-2616

- Wire stripper, steel wire cutter, pliers, wire loop, scale mm/in., crimping tool with grinding blades
- High carbon steel tool with black oxide finish
- Serrated nose grip for easy wire pulling and straightening
- Contoured grips for comfort and control

CAPACITY: 26 - 16 AWG

LENGTH: 6.7 in. WEIGHT: .3 lbs.



12 TON CRIMP DIE SELECTION CHARTS

PENN-UNION COMPRESSION DIES EQUIVALENT TO BURNDY AND HUSKIE "U" TYPE DIES FOR 12 TON TOOLS AND USE WITH **COPPER CONNECTORS**

COPPER CONDUCTOR SIZE	DIE COLOR CODE	PENN-UNION	BURNDY	HUSKIE
8 AWG	RED	T-49	U8CRT	—
6 AWG	BLUE	T-7	U5CRT	HT41AT
4 AWG	GRAY	T-8	U4CRT	HT41AU
3 AWG	WHITE	T-9	U3CRT	HT41AV
2 AWG	BROWN	T-10	U2CRT	HT41AW
1 AWG	GREEN	T-11	U1CRT	HT41AX
1/0 AWG	PINK	T-12	U25RT	HT41AY
2/0 AWG	BLACK	T-13	U26RT	HT41AZ
3/0 AWG	ORANGE	T-14	U27RT	HT41BA
4/0 AWG	PURPLE	T-15	U28RT	HT41BC
250 kcmil	YELLOW	T-16	U29RT	HT41BE
300 kcmil	WHITE	T-17	U30RT	HT41BF
350 kcmil	RED	T-18	U31RT	HT41BJ
400 kcmil	BLUE	T-19	U32RT	HT41BK
500 kcmil	BROWN	T-20	U34RT	HT41BL
600 kcmil	GREEN	T-22	U36RT	HT41BM
650 kcmil	PINK	T-300	U34ART	HT41FB
750 kcmil	BLACK	T-24	U39RT	HT41BP



"U" TYPE DIES

TOOLS THAT ACCEPT "U" TYPE DIES

TPU-12B	PAGE 82
TPU-12B42	PAGE 83
TPU-18B	PAGE 84
TPU-12BH	PAGE 86
TPU-12B42H	PAGE 87
TPU-18BH	PAGE 87
TPU-1500H (WITH PU-15 ADAPTER)	PAGE 88
TPU-42B	PAGE 90

Penn-Union dies listed above provide UL and/or CSA certified connections when used with Penn-Union tools and connectors.

PENN-UNION COMPRESSION DIES EQUIVALENT TO BURNDY AND HUSKIE "U" TYPE DIES FOR 12 TON TOOLS AND USE WITH **ALUMINUM CONNECTORS**

ALUMINUM OR COPPER CONDUCTOR SIZE	DIE COLOR CODE	PENN-UNION	BURNDY	HUSKIE
8 AWG	BLUE	T-374	U8CABT	HT41GL
6 AWG	GRAY	T-346	U6CABT	HT41GE
4 AWG	GREEN	T-375	U4CABT	HT41GM
2 AWG	PINK	T-348	U2CABT	HT41GF
1 AWG	GOLD	T-471	U1CART	—
1/0 AWG	TAN	T-296	U25ART	HT41EX
2/0 AWG	OLIVE	T-297	U26ART	HT41EY
3/0 AWG	RUBY	T-467	U27ART	HT41GW
4/0 AWG	WHITE	T-298	U28ART	HT41EZ
250 kcmil	RED	T-324	U29ART	HT41FW
300 kcmil	BLUE	T-470	U30ART	HT41GZ
350 kcmil	BROWN	T-299	U31ART	HT41FA
400 kcmil	GREEN	T-472	U32ART	HT41HH
500 kcmil	PINK	T-300	U34ART	HT41FB
600 kcmil	BLACK	T-473	U36ART	HT41HG



PU-15 "U" DIE ADAPTER

- Accepts all industry standard 12 ton "U" style dies
- For use in TPU-1500H, 15 ton remote hydraulic crimping tool (pg. 88)

15 TON CRIMP DIE SELECTION CHARTS

PENN-UNION COMPRESSION DIES EQUIVALENT TO BURNDY AND HUSKIE "P" TYPE DIES FOR 15 TON TOOLS AND USE WITH COPPER CONNECTORS			
COPPER CONDUCTOR SIZE	PENN-UNION	BURNDY	HUSKIE
750 kcmil	T-24P	P39RT	HT61BP
800 kcmil	T-25P	P40RT	HT61BR
1000 kcmil	T-27P	P44RT	HT61BU
1500 kcmil	T-31P	P46RT	HT61BV



"P" TYPE DIES

Penn-Union 15 Ton Crimp Tool Model TPU-1500H (pg. 88) accepts all industry standard "P" Type Dies

PENN-UNION COMPRESSION DIES EQUIVALENT TO BURNDY AND HUSKIE "P" TYPE DIES FOR 15 TON TOOLS AND USE WITH ALUMINUM CONNECTORS			
ALUMINUM OR COPPER CONDUCTOR SIZE	PENN-UNION	BURNDY	HUSKIE
750 kcmil	T-301P	P39ART	HT61FC
800 kcmil	T-474P	P40ART	HT61HJ
1000 kcmil	T-302P	P44ART	HT61FD

Penn-Union dies listed above provide UL and/or CSA certified connections when used with Penn-Union tools and connectors.

"W" TYPE CRIMP DIE SELECTION CHARTS

PENN-UNION COMPRESSION DIES EQUIVALENT TO BURNDY AND HUSKIE "W" TYPE DIES FOR USE IN 4-6 TON TOOLS		
PENN-UNION	BURNDY	HUSKIE
PW-K840	W-K840	HT58AE
PW-161	W-161	HT58BX
PW-162	W-162	HT58BZ
PW-163	W-163	HT58CB
PW-164	W-164	HT58CD
PW-165	W-165	HT58CE
PW-166	W-166	HT58CF
PW-167	W-167	HT58CG
PW-171	W-171	HT58CM
PW-BG	W-BG	HT58G
PW-C	W-C	HT58J
PW-0	W-0	HT58AK
PW-CUTTER	W-CUTTER	HT58CUT
PW-236	W-236	HT58DE
PW-238	W-238	HT58DG
PW-239	W-239	HT58DH
PW-241	W-241	HT58DK



"W" TYPE DIES

Penn-Union Compression Tool Model TMU-OD3 (pg. 81) accepts all industry standard "W" Type Dies

PENN-UNION	BURNDY	HUSKIE
PW-243	W-243	HT58DM
PW-245	W-245	HT58DP
PW-247	W-247	HT58DT
PW-248	W-248	HT58DV
PW-249	W-249	HT58DW
PW-687	W-687	HT58KA
PW-702	W-702	HT58KH
PW-L	W-L	HT58AF



LI-18-A LITHIUM ION BATTERY

- 18v DC output, capacity 3Ah
- Charging time 60 minutes
- Provides up to 70% more crimp cycles than Ni-Cd batteries
- Works with Penn-Union 18v tools: TPU-6B, TPU-6FTB, TPU-42B, BCT-750, BCTA-1000, and HDT-1000B (pgs. 90-93)



LI-18-B LITHIUM ION BATTERY

- 18v DC output, capacity 1.5Ah
- Charging time 30 minutes
- Provides up to 70% more crimp cycles than Ni-Cd batteries
- Works with Penn-Union 18v tools: TPU-6B, TPU-6FTB, TPU-42B, BCT-750, BCTA-1000, and HDT-1000B (pgs. 90-93)



BC-07 18V LITHIUM ION BATTERY CHARGER

- LED display indicates charging status
- Battery protection circuitry prevents overcharging
- Charges Penn-Union 18v Li-ION batteries: LI-18-A and LI-18-B



ST-100 ANALYZER FOR BATTERY-ACTUATED TOOLS WITH SENSOR TECHNOLOGY

- Easily plugs into Penn-Union battery compression tools (TPU-42B pg. 90, TPU-6B pg. 92, and TPU-6FTB pg. 92) and allows user to monitor:
 - Crimping pressure
 - Tool temperature
 - Battery voltage
 - Number of crimp cycles and crimping pressure achieved

User Enabled Features:

- Set LED on time
- Set pressure alarm
- Set temperature alarm



PG-1000 IN-LINE PRESSURE GAUGE KIT

- Use to measure oil pressure of hydraulic pumps
- Maximum working pressure 10,000 psi
- 2.5" diameter gauge
- 3/8" NPT connection



TG-1000 CRIMPING TOOL LOAD CELL

- Use to calibrate and measure force developed by 12 ton hydraulic tools
- Maximum working pressure 10,000 psi
- Supplied with U-Type test dies
- Large easy to read 3.5" diameter gauge
- Includes steel carrying case



H-6 6 FOOT HYDRAULIC HOSE

- Maximum pressure 10,000 psi
- 3/8" male NPT out threads



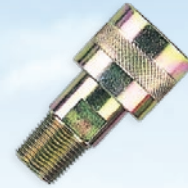
H-10 10 FOOT HYDRAULIC HOSE

- Maximum pressure 10,000 psi
- 3/8" male NPT out threads



C-18 QUICK COUPLER

- Complete quick coupler
- 3/8" male NPT threads each end



C-18-F CONNECTOR

- Female coupling half
- 3/8" male NPT screw type



C-18-M CONNECTOR

- Male coupling half
- 3/8" NPT threads



C-20 QUICK COUPLER

- Complete quick coupler
- 3/8" female NPT threads each end



C-20-F CONNECTOR

- Female coupling half
- 3/8" female NPT threads
- Push/pull quick connect



C-20-M CONNECTOR

- Male coupling half
- 3/8" female NPT threads

WARRANTY INFORMATION

All Penn-Union tools including hydraulic and mechanical crimping tools, battery powered crimping tools, hydraulic and mechanical cable cutters, hydraulic pumps, pressure gauges and accessory items carry a one-year (1) warranty against defects in materials and manufacturing from purchase date. Cutting blades, batteries, and chargers are NOT covered under this warranty as they are considered expendables.

Penn-Union warrants all new tooling products to be free of defects in materials and manufacturing for a period of one-year (1) from the date of sale. Upon receipt or notification of a defective product within the warranty period, it will be replaced or repaired at Seller's option free of charge.

Seller shall not be responsible for the cost of transportation incurred in connection with the repair or replacement of these products.

Penn-Union does not assume any liability for the improper selection, repair, use or abuse of such tools. If in the Seller's judgment the tool has been abused, tampered with, altered, or damaged by improper selection, repair or use, the above warranty is void.

This warranty, and the Seller's obligation hereunder, is in lieu of all other warranties, express, implied or statutory, including any warranties of merchantability and of fitness for a particular purpose, and all other obligations or liabilities, including incidental and consequential damages.

REPAIR AND WARRANTY CLAIMS

All claims must be sent to Penn-Union for inspection and authorization. A Return Materials Authorization (RMA) must be requested and issued before shipping tools to Penn-Union. An authorization can be requested by contacting Penn-Union by telephone (814) 734-1631, fax (814) 734-4946 or email (sales@penn-union.com). Please include all details of the claim including model number, description of issue, date of purchase and distributor through which the tool or accessory was purchased. Non-warranty repairs will be handled using this same procedure. Any repairs which exceed 50% of the cost of a new tool will be advised prior to repairs being made. All products will be returned to Penn-Union's Edinboro, PA, USA facility.

PENN-UNION COPPER CONNECTORS FOR USE WITH VERSA-CRIMP® TYPE INSTALLATION TOOLING

(Number of required crimps per connection by connector & tool combinations)



COPPER CONNECTOR CATALOG NUMBER FOR TYPES: BLU, BCU, BBLU, BBCU, BBLZ, BCUR	VERSA-CRIMP® TOOLS WIRE RANGE AWG OR kcmil STRANDED COPPER	VERSA-CRIMP® TOOLS / CONNECTOR TYPES / NUMBER OF CRIMPS						
		VC6-350		VC6-500-BP		VC6-3		VC6-FT
		BLU/BCU *BCUR	BBLU/BBCU/ BBLZ	BLU/BCU *BCUR	BBLU/BBCU/ BBLZ	BLU/BCU *BCUR	BBLU/BBCU/ BBLZ	BLU/BCU *BCUR
- 6	# 6	1	2	1	2	—		—
- 4	# 4	1	2	1	2	—		—
- 2	# 6 - #2	1	2	1	2	1	2 OVERLAP	1
- 1	# 6 - #1	1	3	1	3	1	2	1
- 1/0	# 6 - 1/0	1	3	1	3	1	2	1
- 2/0	# 4 - 2/0	1	3	1	3	1	2	1
- 3/0	# 2 - 3/0	2	3	2	3	2 OVERLAP	2	2 OVERLAP
- 4/0	# 1 - 4/0	2	3	2	3	2 OVERLAP	2	2 OVERLAP
- 025	1/0 - 250	2	3	2	3	2 OVERLAP	2	2 OVERLAP
- 030	2/0 - 300	2	4	2	4	2 OVERLAP	3	2 OVERLAP
- 035	3/0 - 350	—		3 OVERLAP	5	2 OVERLAP	3	2 OVERLAP
- 040	4/0 - 400	—		3 OVERLAP	6	2 OVERLAP	3	2 OVERLAP
- 050	4/0 - 500	—		4 OVERLAP	6	2	4 OVERLAP	2
- 060	250 - 600	—		—		—		2
- 075	500 - 750	—		—		—		3 OVERLAP
- 080	500 - 800	—		—		—		—
- 100	750 - 1000	—		—		—		—
- 150	1000 - 1500	—		—		—		—

① Users of HUSKIE® EP-630A, ANDERSON VC7 and related tools must strip off an extra 1-5/8" of insulation from one end of cable to permit removal of tool over conductor sizes 250 kcmil and larger on "BCU" and "BBCU" splicing sleeves

② VC8C Tool Crimps 500 kcmil only

③ VC8C Tool Crimps 500-600 kcmil only

*Note: BCUR reducing splices require different crimp tooling and dies on each end due to reducing capability

TOOL SUMMARY:

REPRESENTATIVE TOOL & RELATED TOOLS

"P" = PENN-UNION®

"A" = ANDERSON®

"H" = HUSKIE®

"A" VC6-350

RELATED TOOLS:

"A" VC6-350R

"A" VC6-350-SN

"A" VC6-350R-SN

"A" VC6-500-BP

RELATED TOOLS:

NONE

"A" VC6-3 

RELATED TOOLS:

"P" TPU-6

"H" EP-630A

"P" TPU-6B

"A" VC6-3

"A" VC6-3-BP

"H" REC-6630

"P" TPU-6H

"A" VC6R

"H" EP-630HA

"A" VC6-FT

RELATED TOOLS:

"P" TPU-6FT

"H" EP-750A

"P" TPU-6FTB

"A" VC6-FT-BP

"H" REC-750

"P" TPU-6FTH

"A" VC6-FTR

"H" EP-750HA

"A" VC7 

RELATED TOOLS:

"A" VC7R

"A" VC7-FT

RELATED TOOLS:






"A" VC7-FTR

"A" VC8C

RELATED TOOLS:

NONE

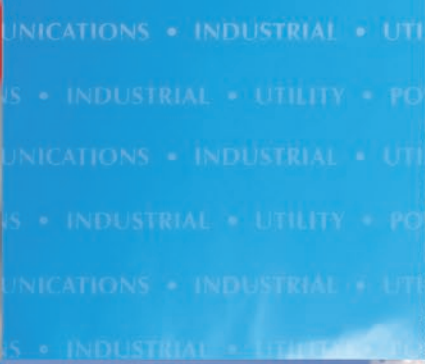
VERSA-CRIMP® TOOLS / CONNECTOR TYPES / NUMBER OF CRIMPS

VC6-FT	VC7 		VC7-FT		VC8C		
	BBLU/BBCU/ BBLZ	BLU/BCU *BCUR	BBLU/BBCU/ BBLZ	BLU/BCU *BCUR	BBLU/BBCU/ BBLZ	BLU/BCU *BCUR	BBLU/BBCU/ BBLZ
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
2 OVERLAP	1	2	1	2	—	—	—
2	1	2	1	2	—	—	—
2	1	2	1	2	—	—	—
2	1	2	1	2	—	—	—
2	2	2	2	2	—	—	—
2	2	2	2	2	—	—	—
2	2	2	2	2	—	—	—
3	2	3	2	3	—	—	—
3	2	3	2	3	—	—	—
3	2	3	2	3	—	—	—
4 OVERLAP	2	4	2	4	1 	2 	—
4	—	—	2	4	1 	3 	—
4 OVERLAP	—	—	3	4	2 OVERLAP	3	—
—	—	—	—	—	2 OVERLAP	3	—
—	—	—	—	—	2	4 OVERLAP	—
—	—	—	—	—	2	4 OVERLAP	—

VERSA-CRIMP® is a registered trademark of HUBBELL Incorporated



- Construction**
- Utilities**
- Power Transmission**
- Industrial**
- Telecom**
- Renewable Energy**
- Aerospace**
- Rail Systems**
- MRO**



SOLDERING LUGS

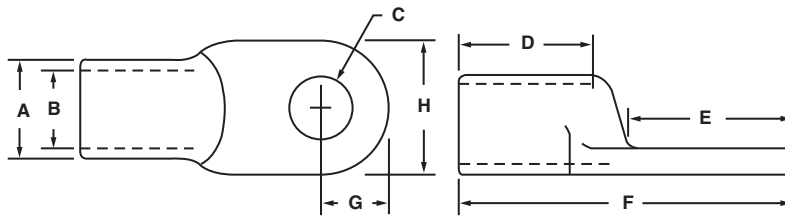


Copper Soldering Lugs

One Hole Tongue with Closed Transition

Type SL

- Manufactured from high strength seamless copper tubing
- Lug marked with wire size, catalog number, and amp rating for easy identification
- Connectors are suitable for voltages up to 35 KV



CATALOG NUMBER	CONDUCTOR SIZE	AMP. RATING	APPROXIMATE DIMENSIONS (IN.)								TONGUE STYLE
			A	B	C	D	E	F	G	H	
SL-25	10 Str.	25	.19	.14	.17	.34	.47	.94	.19	.25	Round
SL-35	8 Str.	35	.25	.19	.20	.34	.50	1.03	.22	.38	Round
SL-50	6 Str.	50	.31	.24	.20	.38	.59	1.22	.25	.44	Round
SL-70	4 Str.	70	.38	.29	.28	.44	.69	1.38	.28	.53	Round
SL-90	2 Str.	90	.44	.35	.28	.50	.75	1.50	.34	.63	Round
SL-125	1/0 Str.	125	.50	.40	.34	.56	.81	1.75	.41	.75	Round
SL-150	2/0 Str.	150	.56	.46	.41	.69	.94	2.00	.44	.81	Round
SL-175	3/0 Str.	175	.63	.52	.41	.75	1.00	2.13	.50	.91	Round
SL-225	4/0 Str.	225	.69	.56	.41	.84	1.16	2.38	.53	.97	Round
SL-250	250 kcmil	250	.81	.66	.41	.97	1.25	2.66	.63	1.19	Round
SL-325	400 kcmil	325	.94	.78	.41	1.19	1.63	3.38	.75	1.38	Square
SL-400	500 kcmil	400	1.06	.89	.41	1.50	2.13	4.16	.94	1.56	Square
SL-450	600 kcmil	450	1.13	.94	.41	1.50	2.25	4.44	1.00	1.63	Square
SL-550	800 kcmil	550	1.31	1.08	.53	2.00	2.50	5.06	1.13	1.94	Square
SL-650	1000 kcmil	650	1.44	1.21	.91	2.00	2.50	5.38	1.19	2.13	Square





CONNECTING YOUR TOMORROW.™

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INSULATED MECHANICAL

Copper Blue Pre-Insulated Power Bars Single-Sided Conductor Entry

Type IMLC

Heavy duty copper mechanical connectors:

- Manufactured from high conductivity copper alloy
- Ideal for use in demanding motor applications
- Reusable, ideal for use when installing, testing or replacing motors
- Suitable for use in cabletrays, raceways, ducts and troughs when the conductivity of a copper connection is required

Wide conductor range: 500 kcmil - 18 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory
- Join two or three conductors together

Rated for use with solid, stranded, Hypalon and DLO copper conductors, 600 Volt, 90° C

Cold temperature rated to -40°C

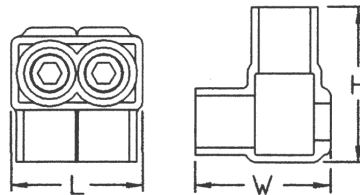
Copper alloy set screws for a lower resistance connection

Supplied with removable access plugs over screw ports

- Provides protection against contaminants

Pre-insulated at factory with high dielectric strength plastisol

- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



SINGLE SIDED ENTRY

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE			APPROXIMATE DIMENSIONS (IN.)			
		AWG - CU	DIESEL LOCOMOTIVE CABLE	HYPALON® CABLE	L	W	H	HEX SIZE
IMLC-4-2S	2	4 Str. - 18 Sol.	6 (61/24) - 14 (19/24)	6 - 18 AWG	1.32	1.25	1.25	5/32
IMLC-4-3S	3				1.92	1.25	1.25	
IMLC-1/0-2S	2	1/0 Str. - 8 Sol.	2 (150/24) - 8 (37/24)	1 - 8 AWG	1.70	1.50	1.48	1/4
IMLC-1/0-3S	3				2.46	1.50	1.48	
IMLC-350-2S	2	350 kcmil - 4 Sol.	4/0 (550/24) - 2 (150/24)	4/0 - 4 AWG	2.41	2.25	2.38	3/8
IMLC-350-3S	3				3.52	2.25	2.38	
IMLC-500-2S	2	500 kcmil - 4 Sol.	313 (775/24) - 2 (150/24)	4/0 - 4 AWG	2.74	2.38	2.63	3/8
IMLC-500-3S	3				3.98	2.38	2.63	

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

Aluminum Clear Pre-Insulated Power Bars Single-Sided Conductor Entry

Type IPB-S

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Multiple conductor configurations: 2 through 14 position

- Choose the right connector for the application

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

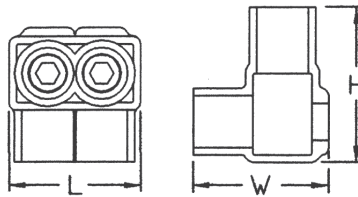
Cold temperature rated to -40°C

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with high dielectric strength plastisol

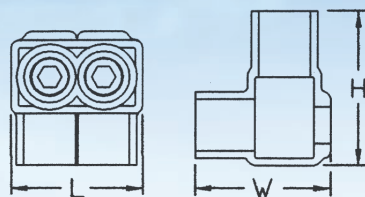
- Clear insulation allows for visual confirmation that conductor is properly inserted
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



SINGLE SIDED ENTRY

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			
			L	W	H	HEX SIZE
IPB-NA4-2S	2	4 Str. - 14 Sol.	1.39	1.13	1.25	1/8
IPB-NA4-3S	3		1.99	1.13	1.25	
IPB-NA4-4S	4		2.59	1.13	1.25	
IPB-NA4-5S	5		3.19	1.13	1.25	
IPB-NA4-6S	6		3.79	1.13	1.25	
IPB-NA4-8S	8		4.99	1.13	1.25	
IPB-NA4-10S	10		6.19	1.13	1.25	
IPB-NA4-12S	12		7.39	1.13	1.25	
IPB-NA4-14S	14		8.59	1.13	1.25	
IPB-NA2/0-2S	2	2/0 Str. - 14 Sol.	1.64	1.32	1.38	3/16
IPB-NA2/0-3S	3		2.37	1.32	1.38	
IPB-NA2/0-4S	4		3.09	1.32	1.38	
IPB-NA2/0-5S	5		3.82	1.32	1.38	
IPB-NA2/0-6S	6		4.54	1.32	1.38	
IPB-NA2/0-8S	8		5.99	1.32	1.38	
IPB-NA2/0-10S	10		7.44	1.32	1.38	
IPB-NA2/0-12S	12		8.89	1.32	1.38	
IPB-NA2/0-14S	14		10.34	1.32	1.38	

INSULATED MECHANICAL



SINGLE SIDED ENTRY

Type IPB-S (continued)

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			
			L	W	H	HEX SIZE
IPB-NA250-2S	2	250 kcmil - 10 Sol.	2.15	2.08	2.13	5/16
IPB-NA250-3S	3		3.15	2.08	2.13	
IPB-NA250-4S	4		4.15	2.08	2.13	
IPB-NA250-5S	5		5.15	2.08	2.13	
IPB-NA250-6S	6		6.15	2.08	2.13	
IPB-NA250-8S	8		8.15	2.08	2.13	
IPB-NA250-10S	10		10.15	2.08	2.13	
IPB-NA250-12S	12		12.15	2.08	2.13	
IPB-NA250-14S	14	14.15	2.08	2.13		
IPB-NA350-2S	2	350 kcmil - 10 Sol.	2.40	2.32	2.50	5/16
IPB-NA350-3S	3		3.53	2.32	2.50	
IPB-NA350-4S	4		4.65	2.32	2.50	
IPB-NA350-5S	5		5.78	2.32	2.50	
IPB-NA350-6S	6		6.90	2.32	2.50	
IPB-NA350-8S	8		9.15	2.32	2.50	
IPB-NA350-10S	10		11.40	2.32	2.50	
IPB-NA350-12S	12		13.65	2.32	2.50	
IPB-NA350-14S	14	15.90	2.32	2.50		
IPB-NA600-2S	2	600 kcmil - 4 Str.	2.80	2.38	2.75	3/8
IPB-NA600-3S	3		4.13	2.38	2.75	
IPB-NA600-4S	4		5.45	2.38	2.75	
IPB-NA600-5S	5		6.78	2.38	2.75	
IPB-NA600-6S	6		8.10	2.38	2.75	
IPB-NA600-8S	8		10.75	2.38	2.75	
IPB-NA600-10S	10		13.40	2.38	2.75	
IPB-NA600-12S	12		16.05	2.38	2.75	
IPB-NA600-14S	14	18.70	2.38	2.75		
IPB-NA750-2S	2	750 kcmil - 2 Str.	3.02	2.75	3.00	3/8
IPB-NA750-3S	3		4.46	2.75	3.00	
IPB-NA750-4S	4		5.89	2.75	3.00	
IPB-NA750-5S	5		7.33	2.75	3.00	
IPB-NA750-6S	6		8.76	2.75	3.00	
IPB-NA750-8S	8		11.63	2.75	3.00	
IPB-NA750-10S	10		14.50	2.75	3.00	
IPB-NA750-12S	12		17.37	2.75	3.00	
IPB-NA750-14S	14	20.24	2.75	3.00		
IPB-NA1000-2S	2	1000 kcmil - 1/0 Str.	3.33	3.63	3.13	1/2
IPB-NA1000-3S	3		4.91	3.63	3.13	
IPB-NA1000-4S	4		6.50	3.63	3.13	
IPB-NA1000-5S	5		8.09	3.63	3.13	
IPB-NA1000-6S	6		9.68	3.63	3.13	
IPB-NA1000-8S	8		12.85	3.63	3.13	
IPB-NA1000-10S	10		16.03	3.63	3.13	
IPB-NA1000-12S	12		19.21	3.63	3.13	
IPB-NA1000-14S	14	22.38	3.63	3.13		

Aluminum Clear Pre-Insulated Power Bars Double-Sided Conductor Entry

Type IPB-D

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Multiple conductor configurations: 2 through 14 position

- Choose the right connector for the application

Double sided configuration allows conductors to be installed from either side of connector

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

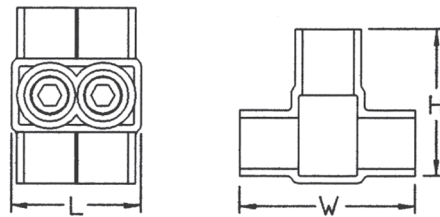
Cold temperature rated to -40°C

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with high dielectric strength plastisol

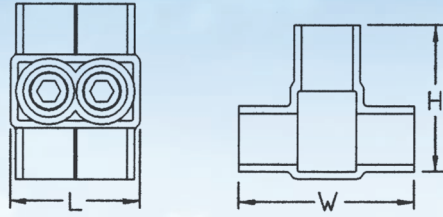
- Clear insulation allows for visual confirmation that conductor is properly inserted
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



DOUBLE SIDED ENTRY

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPB-NA4-2D	2	4 Str - 14 Sol.	1.39	1.50	1.25	1/8
IPB-NA4-3D	3		1.99	1.50	1.25	
IPB-NA4-4D	4		2.59	1.50	1.25	
IPB-NA4-5D	5		3.19	1.50	1.25	
IPB-NA4-6D	6		3.79	1.50	1.25	
IPB-NA4-8D	8		4.99	1.50	1.25	
IPB-NA4-10D	10		6.19	1.50	1.25	
IPB-NA4-12D	12		7.39	1.50	1.25	
IPB-NA4-14D	14		8.59	1.50	1.25	
IPB-NA2/0-2D	2		2/0 Str - 14 Sol.	1.64	1.56	
IPB-NA2/0-3D	3	2.37		1.56	1.38	
IPB-NA2/0-4D	4	3.09		1.56	1.38	
IPB-NA2/0-5D	5	3.82		1.56	1.38	
IPB-NA2/0-6D	6	4.54		1.56	1.38	
IPB-NA2/0-8D	8	5.99		1.56	1.38	
IPB-NA2/0-10D	10	7.44		1.56	1.38	
IPB-NA2/0-12D	12	8.89		1.56	1.38	
IPB-NA2/0-14D	14	10.34		1.56	1.38	

INSULATED MECHANICAL



DOUBLE SIDED ENTRY

Type IPB-D (continued)

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPB-NA250-2D	2	250 kcmil - 10 Sol.	2.15	2.63	2.13	5/16
IPB-NA250-3D	3		3.15	2.63	2.13	
IPB-NA250-4D	4		4.15	2.63	2.13	
IPB-NA250-5D	5		5.15	2.63	2.13	
IPB-NA250-6D	6		6.15	2.63	2.13	
IPB-NA250-8D	8		8.15	2.63	2.13	
IPB-NA250-10D	10		10.15	2.63	2.13	
IPB-NA250-12D	12		12.15	2.63	2.13	
IPB-NA250-14D	14	14.15	2.63	2.13		
IPB-NA350-2D	2	350 kcmil - 10 Sol.	2.40	3.00	2.50	5/16
IPB-NA350-3D	3		3.53	3.00	2.50	
IPB-NA350-4D	4		4.65	3.00	2.50	
IPB-NA350-5D	5		5.78	3.00	2.50	
IPB-NA350-6D	6		6.90	3.00	2.50	
IPB-NA350-8D	8		9.15	3.00	2.50	
IPB-NA350-10D	10		11.40	3.00	2.50	
IPB-NA350-12D	12		13.65	3.00	2.50	
IPB-NA350-14D	14	15.90	3.00	2.50		
IPB-NA600-2D	2	600 kcmil - 4 Str.	2.80	3.00	2.75	3/8
IPB-NA600-3D	3		4.13	3.00	2.75	
IPB-NA600-4D	4		5.45	3.00	2.75	
IPB-NA600-5D	5		6.78	3.00	2.75	
IPB-NA600-6D	6		8.10	3.00	2.75	
IPB-NA600-8D	8		10.75	3.00	2.75	
IPB-NA600-10D	10		13.40	3.00	2.75	
IPB-NA600-12D	12		16.05	3.00	2.75	
IPB-NA600-14D	14	18.70	3.00	2.75		
IPB-NA750-2D	2	750 kcmil - 2 Str.	3.02	3.38	3.00	3/8
IPB-NA750-3D	3		4.46	3.38	3.00	
IPB-NA750-4D	4		5.89	3.38	3.00	
IPB-NA750-5D	5		7.33	3.38	3.00	
IPB-NA750-6D	6		8.76	3.38	3.00	
IPB-NA750-8D	8		11.63	3.38	3.00	
IPB-NA750-10D	10		14.50	3.38	3.00	
IPB-NA750-12D	12		17.37	3.38	3.00	
IPB-NA750-14D	14	20.24	3.38	3.00		
IPB-NA1000-2D	2	1000 kcmil - 1/0 Str.	3.33	4.25	3.13	1/2
IPB-NA1000-3D	3		4.91	4.25	3.13	
IPB-NA1000-4D	4		6.50	4.25	3.13	
IPB-NA1000-5D	5		8.09	4.25	3.13	
IPB-NA1000-6D	6		9.68	4.25	3.13	
IPB-NA1000-8D	8		12.85	4.25	3.13	
IPB-NA1000-10D	10		16.03	4.25	3.13	
IPB-NA1000-12D	12		19.21	4.25	3.13	
IPB-NA1000-14D	14		22.38	4.25	3.13	

Aluminum Clear Pre-Insulated Power Bars

Two Port with Alternate Conductor Entry

Type IPB-A

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Design is ideal for splicing applications when conductor offset is required

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

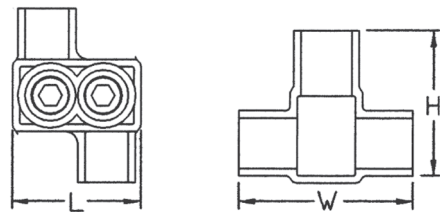
Cold temperature rated to -40°C

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with high dielectric strength plastisol

- Clear insulation allows for visual confirmation that conductor is properly inserted
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



ALTERNATE SIDED ENTRY

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPB-NA4-2A	2	4 Str. - 14 Sol.	1.39	1.50	1.25	1/8
IPB-NA2/0-2A	2	2/0 Str. - 14 Sol.	1.64	1.56	1.38	3/16
IPB-NA250-2A	2	250 kcmil - 10 Sol.	2.15	2.63	2.13	5/16
IPB-NA350-2A	2	350 kcmil - 10 Sol.	2.40	3.00	2.50	5/16
IPB-NA600-2A	2	600 kcmil - 4 Str.	2.80	3.00	2.75	3/8
IPB-NA750-2A	2	750 kcmil - 2 Str.	3.02	3.38	3.00	3/8
IPB-NA1000-2A	2	1000 kcmil - 1/0 Str.	3.33	3.63	3.13	1/2

Aluminum Clear Pre-Insulated Power Bars Mountable Version with Single Sided Conductor Entry

Type IPBM-S

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Designed for applications where secure mounting of connector is required

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

Cold temperature rated to -40°C

Multiple conductor configurations: 2 through 12 position

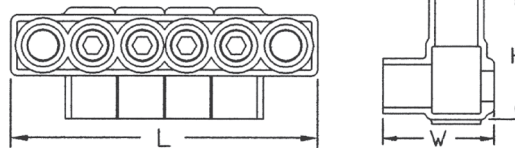
- Choose the right connector for the application

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with high dielectric strength plastisol

- Clear insulation allows for visual confirmation that conductor is properly inserted
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



SINGLE SIDED ENTRY MOUNTING TYPE

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBM-NA2/0-2S	2	2/0 Str. - 14 Sol.	3.09	1.32	1.38	3/16
IPBM-NA2/0-3S	3		3.82	1.32	1.38	
IPBM-NA2/0-4S	4		4.54	1.32	1.38	
IPBM-NA2/0-5S	5		5.27	1.32	1.38	
IPBM-NA2/0-6S	6		5.99	1.32	1.38	
IPBM-NA2/0-8S	8		7.44	1.32	1.38	
IPBM-NA2/0-10S	10		8.89	1.32	1.38	
IPBM-NA2/0-12S	12		10.34	1.32	1.38	
IPBM-NA250-2S	2	250 kcmil - 10 Sol.	4.15	2.08	2.13	5/16
IPBM-NA250-3S	3		5.15	2.08	2.13	
IPBM-NA250-4S	4		6.15	2.08	2.13	
IPBM-NA250-5S	5		7.15	2.08	2.13	
IPBM-NA250-6S	6		8.15	2.08	2.13	
IPBM-NA250-8S	8		10.15	2.08	2.13	
IPBM-NA250-10S	10		12.15	2.08	2.13	
IPBM-NA250-12S	12		14.15	2.08	2.13	

IPBM-S (continued)

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBM-NA350-2S	2	350 kcmil - 10 Sol.	4.65	2.32	2.50	5/16
IPBM-NA350-3S	3		5.78	2.32	2.50	
IPBM-NA350-4S	4		6.90	2.32	2.50	
IPBM-NA350-5S	5		8.03	2.32	2.50	
IPBM-NA350-6S	6		9.15	2.32	2.50	
IPBM-NA350-8S	8		11.40	2.32	2.50	
IPBM-NA350-10S	10		13.65	2.32	2.50	
IPBM-NA350-12S	12		15.90	2.32	2.50	
IPBM-NA600-2S	2	600 kcmil - 4 Str.	5.45	2.38	2.75	3/8
IPBM-NA600-3S	3		6.78	2.38	2.75	
IPBM-NA600-4S	4		8.10	2.38	2.75	
IPBM-NA600-5S	5		9.43	2.38	2.75	
IPBM-NA600-6S	6		10.75	2.38	2.75	
IPBM-NA600-8S	8		13.40	2.38	2.75	
IPBM-NA600-10S	10		16.05	2.38	2.75	
IPBM-NA600-12S	12		18.70	2.38	2.75	
IPBM-NA750-2S	2	750 kcmil - 2 Str.	5.89	2.75	3.00	3/8
IPBM-NA750-3S	3		7.33	2.75	3.00	
IPBM-NA750-4S	4		8.76	2.75	3.00	
IPBM-NA750-5S	5		10.20	2.75	3.00	
IPBM-NA750-6S	6		11.63	2.75	3.00	
IPBM-NA750-8S	8		14.50	2.75	3.00	
IPBM-NA750-10S	10		17.37	2.75	3.00	
IPBM-NA750-12S	12		20.24	2.75	3.00	
IPBM-NA1000-2S	2	1000 kcmil - 1/0 Str.	6.50	3.63	3.25	1/2
IPBM-NA1000-3S	3		8.09	3.63	3.25	
IPBM-NA1000-4S	4		9.68	3.63	3.25	
IPBM-NA1000-5S	5		11.27	3.63	3.25	
IPBM-NA1000-6S	6		12.85	3.63	3.25	
IPBM-NA1000-8S	8		16.03	3.63	3.25	
IPBM-NA1000-10S	10		19.21	3.63	3.25	
IPBM-NA1000-12S	12		22.38	3.63	3.25	

Aluminum Clear Pre-Insulated Power Bars Mountable Version with Double-Sided Conductor Entry

Type IPBM-D

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Designed for applications where secure mounting of connector is required

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

Cold temperature rated to -40°C

Double sided configuration allows conductors to be installed from either side of connector

Multiple conductor configurations: 2 through 12 position

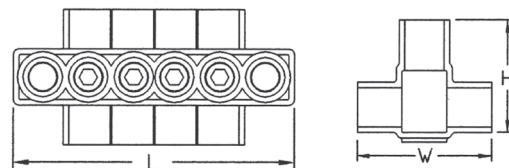
- Choose the right connector for the application

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with high dielectric strength plastisol

- Clear insulation allows for visual confirmation that conductor is properly inserted
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



DOUBLE SIDED ENTRY MOUNTING TYPE

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBM-NA2/0-2D	2	2/0 Str. - 14 Sol.	3.09	1.56	1.38	3/16
IPBM-NA2/0-3D	3		3.82	1.56	1.38	
IPBM-NA2/0-4D	4		4.54	1.56	1.38	
IPBM-NA2/0-5D	5		5.27	1.56	1.38	
IPBM-NA2/0-6D	6		5.99	1.56	1.38	
IPBM-NA2/0-8D	8		7.44	1.56	1.38	
IPBM-NA2/0-10D	10		8.89	1.56	1.38	
IPBM-NA2/0-12D	12		10.34	1.56	1.38	
IPBM-NA250-2D	2	250 kcmil - 10 Sol.	4.15	2.63	2.13	5/16
IPBM-NA250-3D	3		5.15	2.63	2.13	
IPBM-NA250-4D	4		6.15	2.63	2.13	
IPBM-NA250-5D	5		7.15	2.63	2.13	
IPBM-NA250-6D	6		8.15	2.63	2.13	
IPBM-NA250-8D	8		10.15	2.63	2.13	
IPBM-NA250-10D	10		12.15	2.63	2.13	
IPBM-NA250-12D	12		14.15	2.63	2.13	

IPBM-D (continued)

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBM-NA350-2D	2	350 kcmil - 10 Sol.	4.65	3.00	2.50	5/16
IPBM-NA350-3D	3		5.78	3.00	2.50	
IPBM-NA350-4D	4		6.90	3.00	2.50	
IPBM-NA350-5D	5		8.03	3.00	2.50	
IPBM-NA350-6D	6		9.15	3.00	2.50	
IPBM-NA350-8D	8		11.40	3.00	2.50	
IPBM-NA350-10D	10		13.65	3.00	2.50	
IPBM-NA350-12D	12		15.90	3.00	2.50	
IPBM-NA600-2D	2	600 kcmil - 4 Str.	5.45	3.00	2.75	3/8
IPBM-NA600-3D	3		6.78	3.00	2.75	
IPBM-NA600-4D	4		8.10	3.00	2.75	
IPBM-NA600-5D	5		9.43	3.00	2.75	
IPBM-NA600-6D	6		10.75	3.00	2.75	
IPBM-NA600-8D	8		13.40	3.00	2.75	
IPBM-NA600-10D	10		16.05	3.00	2.75	
IPBM-NA600-12D	12		18.70	3.00	2.75	
IPBM-NA750-2D	2	750 kcmil - 2 Str.	5.89	3.38	3.00	3/8
IPBM-NA750-3D	3		7.33	3.38	3.00	
IPBM-NA750-4D	4		8.76	3.38	3.00	
IPBM-NA750-5D	5		10.20	3.38	3.00	
IPBM-NA750-6D	6		11.63	3.38	3.00	
IPBM-NA750-8D	8		14.50	3.38	3.00	
IPBM-NA750-10D	10		17.37	3.38	3.00	
IPBM-NA750-12D	12		20.24	3.38	3.00	
IPBM-NA1000-2D	2	1000 kcmil - 1/0 Str.	6.50	4.25	3.25	1/2
IPBM-NA1000-3D	3		8.09	4.25	3.25	
IPBM-NA1000-4D	4		9.68	4.25	3.25	
IPBM-NA1000-5D	5		11.27	4.25	3.25	
IPBM-NA1000-6D	6		12.85	4.25	3.25	
IPBM-NA1000-8D	8		16.03	4.25	3.25	
IPBM-NA1000-10D	10		19.21	4.25	3.25	
IPBM-NA1000-12D	12		22.38	4.25	3.25	

Aluminum Clear Pre-Insulated In-Line Splicer/Reducers

Type IISR

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 750 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Suitable for use in cable trays, raceways, ducts and troughs

Cold temperature rated to -40°C

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with clear high dielectric strength plastisol

- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion

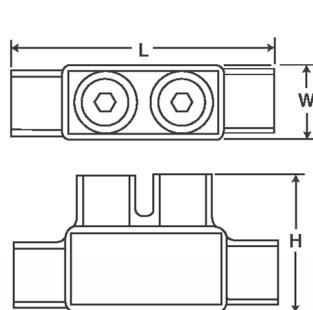


FIG. 1

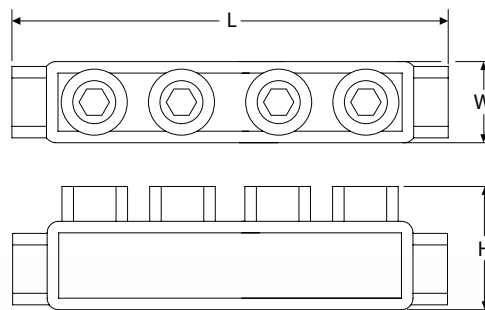


FIG. 2

CATALOG NUMBER	FIGURE NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IISR-2	1	2 Str. - 14 Sol.	2.38	.75	1.22	5/32
IISR-1/0	1	1/0 Str. - 14 Sol.	2.91	.91	1.38	3/16
IISR-250	1	250 kcmil - 10 Sol.	4.00	1.19	2.10	5/16
IISR-350	1	350 kcmil - 10 Sol.	4.63	1.34	2.35	5/16
IISR-500	1	500 kcmil - 6 Str.	5.25	1.63	2.63	3/8
IISR-750	2	750 kcmil - 250 kcmil	8.25	1.93	2.90	3/8

Aluminum Black Pre-Insulated In-Line Splicer/Reducers

Type IISRB

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 750 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Suitable for use in cable trays, raceways, ducts and troughs

Cold temperature rated to -40°C

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with black high dielectric strength plastisol

- Black insulation is UV resistant
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion

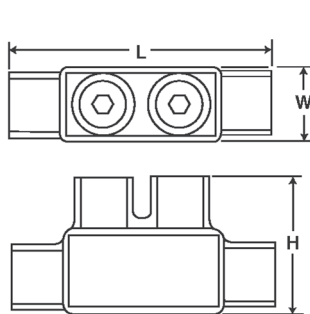
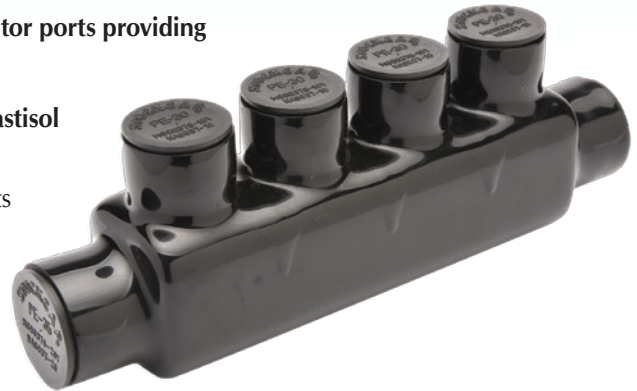


FIG. 1

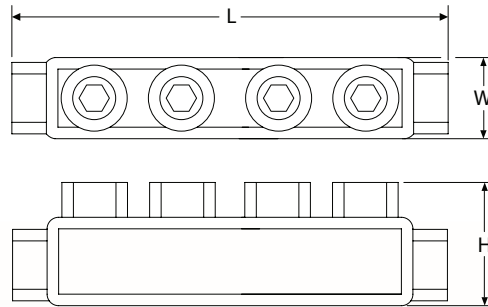


FIG. 2

CATALOG NUMBER	FIGURE NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IISRB-2	1	2 Str. - 14 Sol.	2.38	.75	1.22	5/32
IISRB-1/0	1	1/0 Str. - 14 Sol.	2.91	.91	1.38	3/16
IISRB-250	1	250 kcmil - 10 Sol.	4.00	1.19	2.10	5/16
IISRB-350	1	350 kcmil - 10 Sol.	4.63	1.34	2.35	5/16
IISRB-500	1	500 kcmil - 6 Str.	5.25	1.63	2.63	3/8
IISRB-750	2	750 kcmil - 250 kcmil	8.25	1.93	2.90	3/8

Aluminum Black Pre-Insulated Power Bars Single-Sided Conductor Entry

Type IPBB-S

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Multiple conductor configurations: 2 through 14 position

- Choose the right connector for the application

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

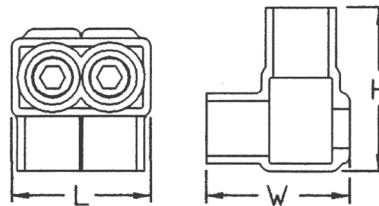
Cold temperature rated to -40°C

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with black high dielectric strength plastisol

- Black insulation is UV resistant
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



SINGLE SIDED ENTRY

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBB-NA4-2S	2	4 Str. - 14 Sol.	1.39	1.13	1.25	1/8
IPBB-NA4-3S	3		1.99	1.13	1.25	
IPBB-NA4-4S	4		2.59	1.13	1.25	
IPBB-NA4-5S	5		3.19	1.13	1.25	
IPBB-NA4-6S	6		3.79	1.13	1.25	
IPBB-NA4-8S	8		4.99	1.13	1.25	
IPBB-NA4-10S	10		6.19	1.13	1.25	
IPBB-NA4-12S	12		7.39	1.13	1.25	
IPBB-NA4-14S	14		8.59	1.13	1.25	
IPBB-NA2/0-2S	2		2/0 Str. - 14 Sol.	1.64	1.32	
IPBB-NA2/0-3S	3	2.37		1.32	1.38	
IPBB-NA2/0-4S	4	3.09		1.32	1.38	
IPBB-NA2/0-5S	5	3.82		1.32	1.38	
IPBB-NA2/0-6S	6	4.54		1.32	1.38	
IPBB-NA2/0-8S	8	5.99		1.32	1.38	
IPBB-NA2/0-10S	10	7.44		1.32	1.38	
IPBB-NA2/0-12S	12	8.89		1.32	1.38	
IPBB-NA2/0-14S	14	10.34		1.32	1.38	

Type IPBB-S (continued)

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBB-NA250-2S	2	250 kcmil - 10 Sol.	2.15	2.08	2.13	5/16
IPBB-NA250-3S	3		3.15	2.08	2.13	
IPBB-NA250-4S	4		4.15	2.08	2.13	
IPBB-NA250-5S	5		5.15	2.08	2.13	
IPBB-NA250-6S	6		6.15	2.08	2.13	
IPBB-NA250-8S	8		8.15	2.08	2.13	
IPBB-NA250-10S	10		10.15	2.08	2.13	
IPBB-NA250-12S	12		12.15	2.08	2.13	
IPBB-NA250-14S	14		14.15	2.08	2.13	
IPBB-NA350-2S	2	350 kcmil - 10 Sol.	2.40	2.32	2.50	5/16
IPBB-NA350-3S	3		3.53	2.32	2.50	
IPBB-NA350-4S	4		4.65	2.32	2.50	
IPBB-NA350-5S	5		5.78	2.32	2.50	
IPBB-NA350-6S	6		6.90	2.32	2.50	
IPBB-NA350-8S	8		9.15	2.32	2.50	
IPBB-NA350-10S	10		11.40	2.32	2.50	
IPBB-NA350-12S	12		13.65	2.32	2.50	
IPBB-NA350-14S	14		15.90	2.32	2.50	
IPBB-NA600-2S	2	600 kcmil - 4 Str.	2.80	2.38	2.75	3/8
IPBB-NA600-3S	3		4.13	2.38	2.75	
IPBB-NA600-4S	4		5.45	2.38	2.75	
IPBB-NA600-5S	5		6.78	2.38	2.75	
IPBB-NA600-6S	6		8.10	2.38	2.75	
IPBB-NA600-8S	8		10.75	2.38	2.75	
IPBB-NA600-10S	10		13.40	2.38	2.75	
IPBB-NA600-12S	12		16.05	2.38	2.75	
IPBB-NA600-14S	14		18.70	2.38	2.75	
IPBB-NA750-2S	2	750 kcmil - 2 Str.	3.02	2.75	3.00	3/8
IPBB-NA750-3S	3		4.46	2.75	3.00	
IPBB-NA750-4S	4		5.89	2.75	3.00	
IPBB-NA750-5S	5		7.33	2.75	3.00	
IPBB-NA750-6S	6		8.76	2.75	3.00	
IPBB-NA750-8S	8		11.63	2.75	3.00	
IPBB-NA750-10S	10		14.50	2.75	3.00	
IPBB-NA750-12S	12		17.37	2.75	3.00	
IPBB-NA750-14S	14		20.24	2.75	3.00	
IPBB-NA1000-2S	2	1000 kcmil - 1/0 Str.	3.33	3.63	3.13	1/2
IPBB-NA1000-3S	3		4.91	3.63	3.13	
IPBB-NA1000-4S	4		6.50	3.63	3.13	
IPBB-NA1000-5S	5		8.09	3.63	3.13	
IPBB-NA1000-6S	6		9.68	3.63	3.13	
IPBB-NA1000-8S	8		12.85	3.63	3.13	
IPBB-NA1000-10S	10		16.03	3.63	3.13	
IPBB-NA1000-12S	12		19.21	3.63	3.13	
IPBB-NA1000-14S	14		22.38	3.63	3.13	

Aluminum Black Pre-Insulated Power Bars Double-Sided Conductor Entry

Type IPBB-D

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Multiple conductor configurations: 2 through 14 position

- Choose the right connector for the application

Double sided configuration allows conductors to be installed from either side of connector

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

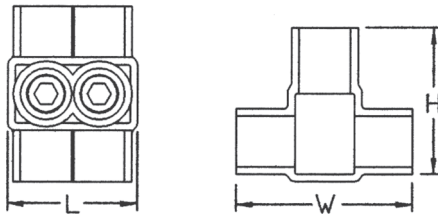
Cold temperature rated to -40°C

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with black high dielectric strength plastisol

- Black insulation is UV resistant
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



DOUBLE SIDED ENTRY



CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBB-NA4-2D	2	4 Str. - 14 Sol.	1.39	1.50	1.25	1/8
IPBB-NA4-3D	3		1.99	1.50	1.25	
IPBB-NA4-4D	4		2.59	1.50	1.25	
IPBB-NA4-5D	5		3.19	1.50	1.25	
IPBB-NA4-6D	6		3.79	1.50	1.25	
IPBB-NA4-8D	8		4.99	1.50	1.25	
IPBB-NA4-10D	10		6.19	1.50	1.25	
IPBB-NA4-12D	12		7.39	1.50	1.25	
IPBB-NA4-14D	14		8.59	1.50	1.25	
IPBB-NA2/0-2D	2		2/0 Str. - 14 Sol.	1.64	1.56	
IPBB-NA2/0-3D	3	2.37		1.56	1.38	
IPBB-NA2/0-4D	4	3.09		1.56	1.38	
IPBB-NA2/0-5D	5	3.82		1.56	1.38	
IPBB-NA2/0-6D	6	4.54		1.56	1.38	
IPBB-NA2/0-8D	8	5.99		1.56	1.38	
IPBB-NA2/0-10D	10	7.44		1.56	1.38	
IPBB-NA2/0-12D	12	8.89		1.56	1.38	
IPBB-NA2/0-14D	14	10.34		1.56	1.38	

Type IPBB-D (continued)

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBB-NA250-2D	2	250 kcmil - 10 Sol.	2.15	2.63	2.13	5/16
IPBB-NA250-3D	3		3.15	2.63	2.13	
IPBB-NA250-4D	4		4.15	2.63	2.13	
IPBB-NA250-5D	5		5.15	2.63	2.13	
IPBB-NA250-6D	6		6.15	2.63	2.13	
IPBB-NA250-8D	8		8.15	2.63	2.13	
IPBB-NA250-10D	10		10.15	2.63	2.13	
IPBB-NA250-12D	12		12.15	2.63	2.13	
IPBB-NA250-14D	14		14.15	2.63	2.13	
IPBB-NA350-2D	2		350 kcmil - 10 Sol.	2.40	3.00	
IPBB-NA350-3D	3	3.53		3.00	2.50	
IPBB-NA350-4D	4	4.65		3.00	2.50	
IPBB-NA350-5D	5	5.78		3.00	2.50	
IPBB-NA350-6D	6	6.90		3.00	2.50	
IPBB-NA350-8D	8	9.15		3.00	2.50	
IPBB-NA350-10D	10	11.40		3.00	2.50	
IPBB-NA350-12D	12	13.65		3.00	2.50	
IPBB-NA350-14D	14	15.90		3.00	2.50	
IPBB-NA600-2D	2	600 kcmil - 4 Str.		2.80	3.00	2.75
IPBB-NA600-3D	3		4.13	3.00	2.75	
IPBB-NA600-4D	4		5.45	3.00	2.75	
IPBB-NA600-5D	5		6.78	3.00	2.75	
IPBB-NA600-6D	6		8.10	3.00	2.75	
IPBB-NA600-8D	8		10.75	3.00	2.75	
IPBB-NA600-10D	10		13.40	3.00	2.75	
IPBB-NA600-12D	12		16.05	3.00	2.75	
IPBB-NA600-14D	14		18.70	3.00	2.75	
IPBB-NA750-2D	2		750 kcmil - 2 Str.	3.02	3.38	3.00
IPBB-NA750-3D	3	4.46		3.38	3.00	
IPBB-NA750-4D	4	5.89		3.38	3.00	
IPBB-NA750-5D	5	7.33		3.38	3.00	
IPBB-NA750-6D	6	8.76		3.38	3.00	
IPBB-NA750-8D	8	11.63		3.38	3.00	
IPBB-NA750-10D	10	14.50		3.38	3.00	
IPBB-NA750-12D	12	17.37		3.38	3.00	
IPBB-NA750-14D	14	20.24		3.38	3.00	
IPBB-NA1000-2D	2	1000 kcmil - 1/0 Str.		3.33	4.25	3.13
IPBB-NA1000-3D	3		4.91	4.25	3.13	
IPBB-NA1000-4D	4		6.50	4.25	3.13	
IPBB-NA1000-5D	5		8.09	4.25	3.13	
IPBB-NA1000-6D	6		9.68	4.25	3.13	
IPBB-NA1000-8D	8		12.85	4.25	3.13	
IPBB-NA1000-10D	10		16.03	4.25	3.13	
IPBB-NA1000-12D	12		19.21	4.25	3.13	
IPBB-NA1000-14D	14		22.38	4.25	3.13	

Aluminum Black Pre-Insulated Power Bars Two Port with Alternate Conductor Entry

Type IPBB-A

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Design is ideal for splicing applications when conductor offset is required

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

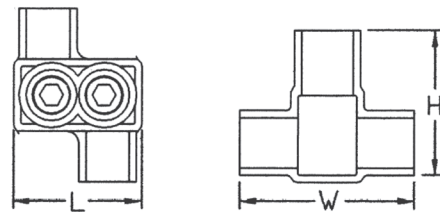
Cold temperature rated to -40°C

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with black high dielectric strength plastisol

- Black insulation is UV resistant
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



ALTERNATE SIDED ENTRY

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBB-NA4-2A	2	4 Str. - 14 Sol.	1.39	1.50	1.25	1/8
IPBB-NA2/0-2A	2	2/0 Str. - 14 Sol.	1.64	1.56	1.38	3/16
IPBB-NA250-2A	2	250 kcmil - 10 Sol.	2.15	2.63	2.13	5/16
IPBB-NA350-2A	2	350 kcmil - 10 Sol.	2.40	3.00	2.50	5/16
IPBB-NA600-2A	2	600 kcmil - 4 Str.	2.80	3.00	2.75	3/8
IPBB-NA750-2A	2	750 kcmil - 2 Str.	3.02	3.38	3.00	3/8
IPBB-NA1000-2A	2	1000 kcmil - 1/0 Str.	3.33	3.63	3.13	1/2

Aluminum Black Pre-Insulated Power Bars

Mountable Version with Single-Sided Conductor Entry

Type IPBBM-S



Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Designed for applications where secure mounting of connector is required

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

Cold temperature rated to -40°C

Multiple conductor configurations: 2 through 12 position

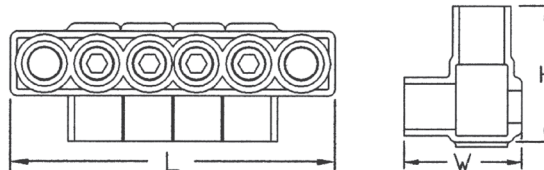
- Choose the right connector for the application

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with black high dielectric strength plastisol

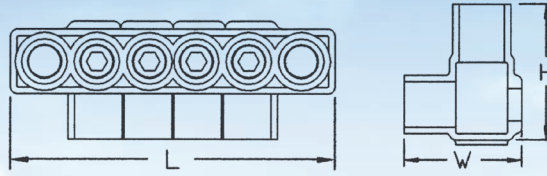
- Black insulation is UV resistant
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



SINGLE SIDED ENTRY MOUNTING TYPE

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBBM-NA2/0-2S	2	2/0 Str. - 14 Sol.	3.09	1.32	1.38	3/16
IPBBM-NA2/0-3S	3		3.82	1.32	1.38	
IPBBM-NA2/0-4S	4		4.54	1.32	1.38	
IPBBM-NA2/0-5S	5		5.27	1.32	1.38	
IPBBM-NA2/0-6S	6		5.99	1.32	1.38	
IPBBM-NA2/0-8S	8		7.44	1.32	1.38	
IPBBM-NA2/0-10S	10		8.89	1.32	1.38	
IPBBM-NA2/0-12S	12		10.34	1.32	1.38	
IPBBM-NA250-2S	2	250 kcmil - 10 Sol.	4.15	2.08	2.13	5/16
IPBBM-NA250-3S	3		5.15	2.08	2.13	
IPBBM-NA250-4S	4		6.15	2.08	2.13	
IPBBM-NA250-5S	5		7.15	2.08	2.13	
IPBBM-NA250-6S	6		8.15	2.08	2.13	
IPBBM-NA250-8S	8		10.15	2.08	2.13	
IPBBM-NA250-10S	10		12.15	2.08	2.13	
IPBBM-NA250-12S	12		14.15	2.08	2.13	

INSULATED MECHANICAL



SINGLE SIDED ENTRY MOUNTING TYPE

Type IPBBM-S (continued)

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBBM-NA350-2S	2	350 kcmil - 10 Sol.	4.65	2.32	2.50	5/16
IPBBM-NA350-3S	3		5.78	2.32	2.50	
IPBBM-NA350-4S	4		6.90	2.32	2.50	
IPBBM-NA350-5S	5		8.03	2.32	2.50	
IPBBM-NA350-6S	6		9.15	2.32	2.50	
IPBBM-NA350-8S	8		11.40	2.32	2.50	
IPBBM-NA350-10S	10		13.65	2.32	2.50	
IPBBM-NA350-12S	12		15.90	2.32	2.50	
IPBBM-NA600-2S	2	600 kcmil - 4 Str.	5.45	2.38	2.75	3/8
IPBBM-NA600-3S	3		6.78	2.38	2.75	
IPBBM-NA600-4S	4		8.10	2.38	2.75	
IPBBM-NA600-5S	5		9.43	2.38	2.75	
IPBBM-NA600-6S	6		10.75	2.38	2.75	
IPBBM-NA600-8S	8		13.40	2.38	2.75	
IPBBM-NA600-10S	10		16.05	2.38	2.75	
IPBBM-NA600-12S	12		18.70	2.38	2.75	
IPBBM-NA750-2S	2	750 kcmil - 2 Str.	5.89	2.75	3.00	3/8
IPBBM-NA750-3S	3		7.33	2.75	3.00	
IPBBM-NA750-4S	4		8.76	2.75	3.00	
IPBBM-NA750-5S	5		10.20	2.75	3.00	
IPBBM-NA750-6S	6		11.63	2.75	3.00	
IPBBM-NA750-8S	8		14.50	2.75	3.00	
IPBBM-NA750-10S	10		17.37	2.75	3.00	
IPBBM-NA750-12S	12		20.24	2.75	3.00	
IPBBM-NA1000-2S	2	1000 kcmil - 1/0 Str.	6.50	3.63	3.25	1/2
IPBBM-NA1000-3S	3		8.09	3.63	3.25	
IPBBM-NA1000-4S	4		9.68	3.63	3.25	
IPBBM-NA1000-5S	5		11.27	3.63	3.25	
IPBBM-NA1000-6S	6		12.85	3.63	3.25	
IPBBM-NA1000-8S	8		16.03	3.63	3.25	
IPBBM-NA1000-10S	10		19.21	3.63	3.25	
IPBBM-NA1000-12S	12		22.38	3.63	3.25	

Aluminum Black Pre-Insulated Power Bars

Mountable Version with Double-Sided Conductor Entry

Type IPBBM-D

Manufactured from high strength aluminum alloy

Dual rated for aluminum and copper conductors, 600 Volt, 90°C

Wide conductor range: 1000 kcmil - 14 Sol.

- Allows flexibility in the field and reduces number of connectors in inventory

Designed for applications where secure mounting of connector is required

Suitable for use in panelboards, cable trays, raceways, ducts and troughs

Cold temperature rated to -40°C

Double sided configuration allows conductors to be installed on either side of connector

Multiple conductor configurations: 2 through 12 position

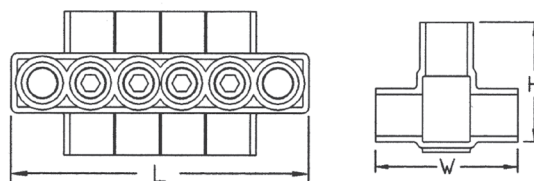
- Choose the right connector for the application

Pre-filled with oxide inhibitor, prevents oxidation, moisture and contaminants from entering contact area

Supplied with removable access plugs over screw and conductor ports providing protection against contaminants

Pre-insulated at factory with black high dielectric strength plastisol

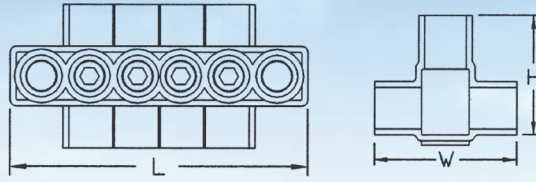
- Black insulation is UV resistant
- Saves time, eliminates taping, reduces overall installation costs
- Abrasion and chemical resistant
- Will not support combustion



DOUBLE SIDED ENTRY MOUNTING TYPE

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBBM-NA2/0-2D	2	2/0 Str. - 14 Sol.	3.09	1.56	1.38	3/16
IPBBM-NA2/0-3D	3		3.82	1.56	1.38	
IPBBM-NA2/0-4D	4		4.54	1.56	1.38	
IPBBM-NA2/0-5D	5		5.27	1.56	1.38	
IPBBM-NA2/0-6D	6		5.99	1.56	1.38	
IPBBM-NA2/0-8D	8		7.44	1.56	1.38	
IPBBM-NA2/0-10D	10		8.89	1.56	1.38	
IPBBM-NA2/0-12D	12		10.34	1.56	1.38	
IPBBM-NA250-2D	2	250 kcmil - 10 Sol.	4.15	2.63	2.13	5/16
IPBBM-NA250-3D	3		5.15	2.63	2.13	
IPBBM-NA250-4D	4		6.15	2.63	2.13	
IPBBM-NA250-5D	5		7.15	2.63	2.13	
IPBBM-NA250-6D	6		8.15	2.63	2.13	
IPBBM-NA250-8D	8		10.15	2.63	2.13	
IPBBM-NA250-10D	10		12.15	2.63	2.13	
IPBBM-NA250-12D	12		14.15	2.63	2.13	

INSULATED MECHANICAL



Double Sided Entry Mounting Type

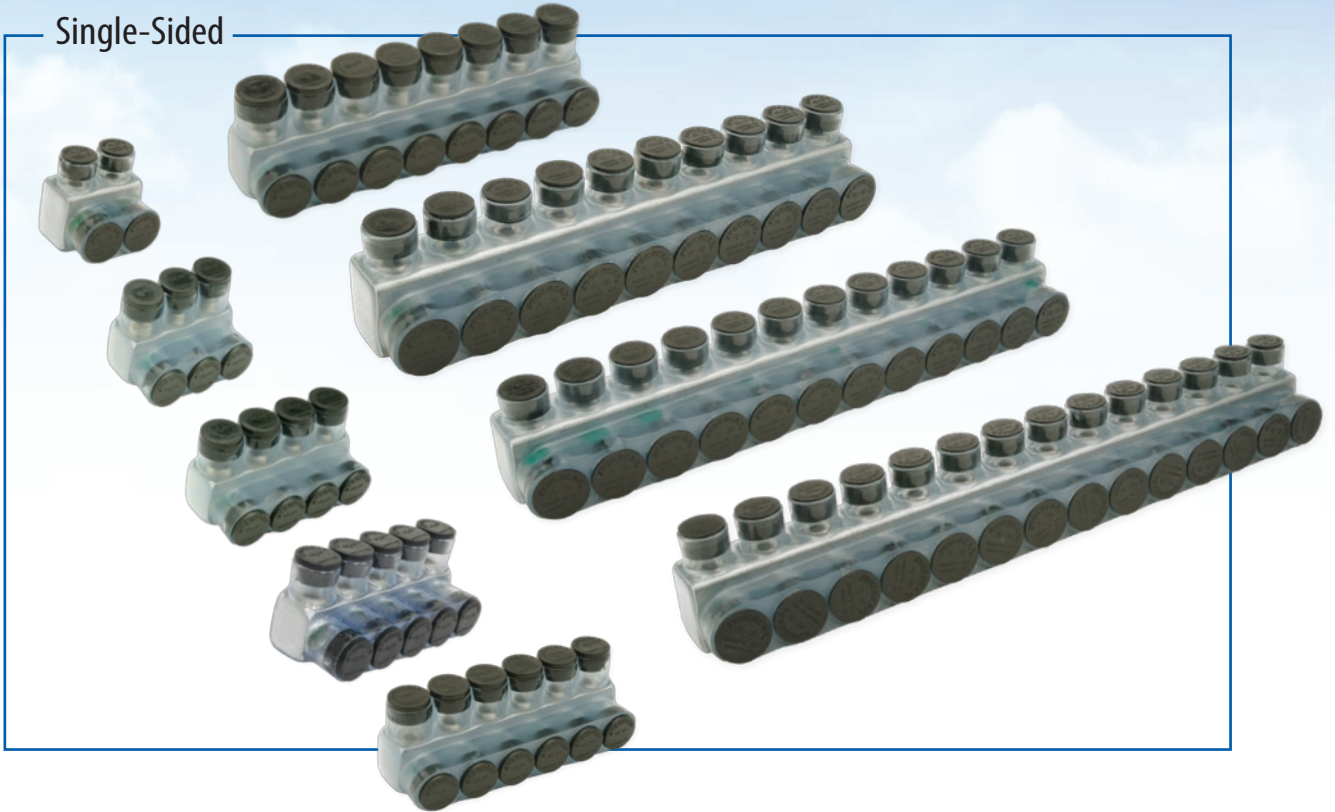
Type IPBBM-D (continued)

CATALOG NUMBER	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			L	W	H	
IPBBM-NA350-2D	2	350 kcmil - 10 Sol.	4.65	3.00	2.50	5/16
IPBBM-NA350-3D	3		5.78	3.00	2.50	
IPBBM-NA350-4D	4		6.90	3.00	2.50	
IPBBM-NA350-5D	5		8.03	3.00	2.50	
IPBBM-NA350-6D	6		9.15	3.00	2.50	
IPBBM-NA350-8D	8		11.40	3.00	2.50	
IPBBM-NA350-10D	10		13.65	3.00	2.50	
IPBBM-NA350-12D	12		15.90	3.00	2.50	
IPBBM-NA600-2D	2	600 kcmil - 4 Str.	5.45	3.00	2.75	3/8
IPBBM-NA600-3D	3		6.78	3.00	2.75	
IPBBM-NA600-4D	4		8.10	3.00	2.75	
IPBBM-NA600-5D	5		9.43	3.00	2.75	
IPBBM-NA600-6D	6		10.75	3.00	2.75	
IPBBM-NA600-8D	8		13.40	3.00	2.75	
IPBBM-NA600-10D	10		16.05	3.00	2.75	
IPBBM-NA600-12D	12		18.70	3.00	2.75	
IPBBM-NA750-2D	2	750 kcmil - 2 Str.	5.89	3.38	3.00	3/8
IPBBM-NA750-3D	3		7.33	3.38	3.00	
IPBBM-NA750-4D	4		8.76	3.38	3.00	
IPBBM-NA750-5D	5		10.20	3.38	3.00	
IPBBM-NA750-6D	6		11.63	3.38	3.00	
IPBBM-NA750-8D	8		14.50	3.38	3.00	
IPBBM-NA750-10D	10		17.37	3.38	3.00	
IPBBM-NA750-12D	12		20.24	3.38	3.00	
IPBBM-NA1000-2D	2	1000 kcmil - 1/0 Str.	6.50	4.25	3.25	1/2
IPBBM-NA1000-3D	3		8.09	4.25	3.25	
IPBBM-NA1000-4D	4		9.68	4.25	3.25	
IPBBM-NA1000-5D	5		11.27	4.25	3.25	
IPBBM-NA1000-6D	6		12.85	4.25	3.25	
IPBBM-NA1000-8D	8		16.03	4.25	3.25	
IPBBM-NA1000-10D	10		19.21	4.25	3.25	
IPBBM-NA1000-12D	12		22.38	4.25	3.25	

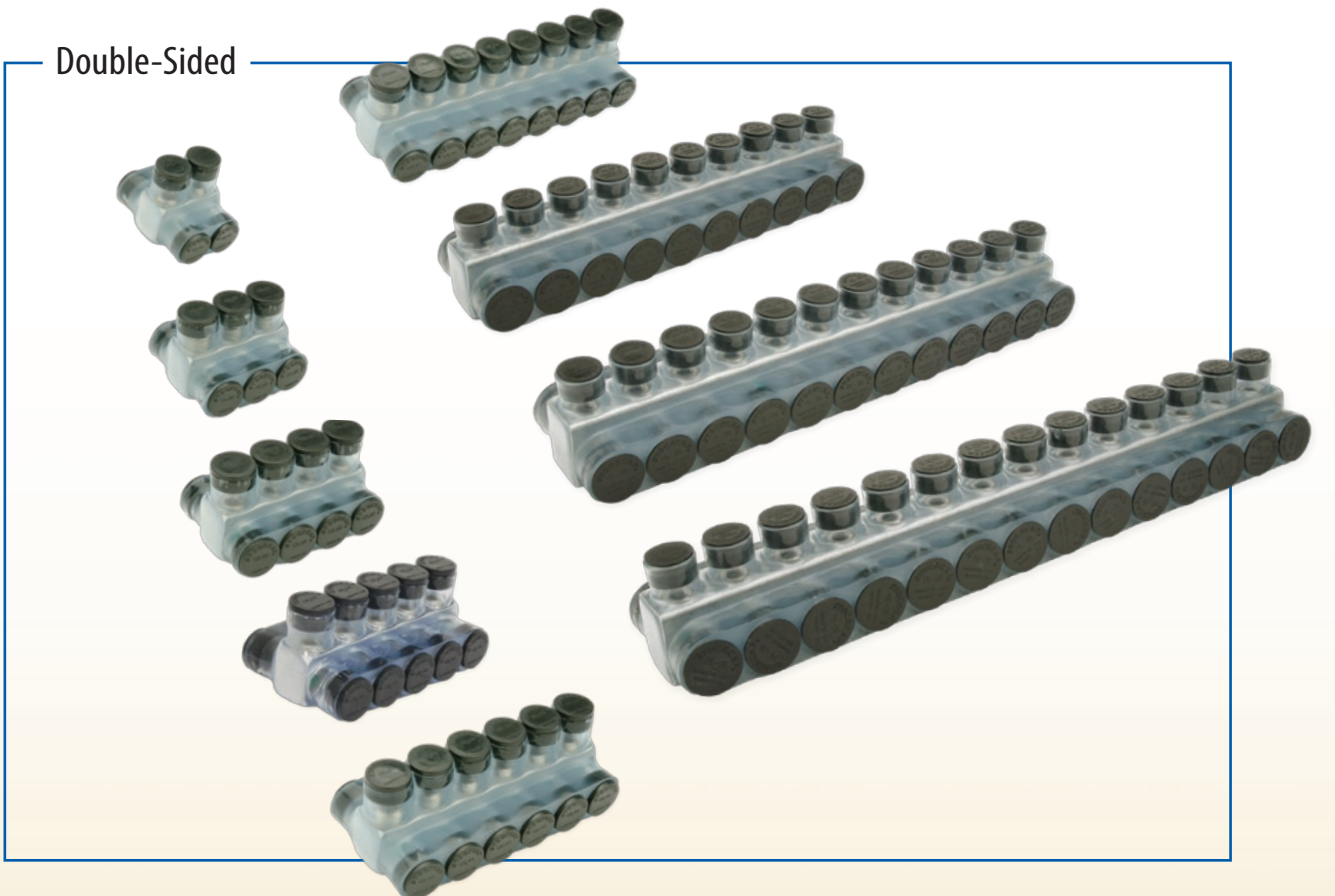
Aluminum Clear Pre-Insulated Power Bars

Offered in single and double-sided, 2 to 14 ports

Single-Sided



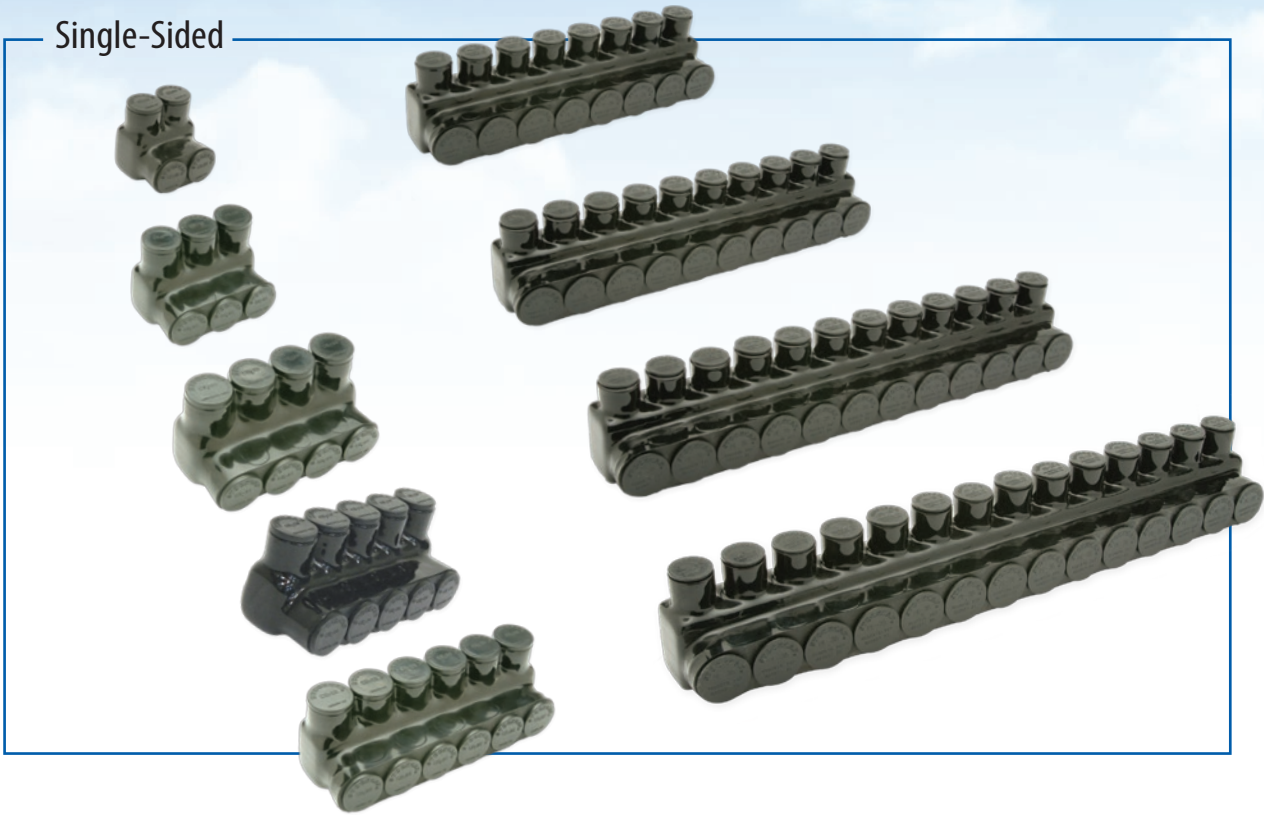
Double-Sided



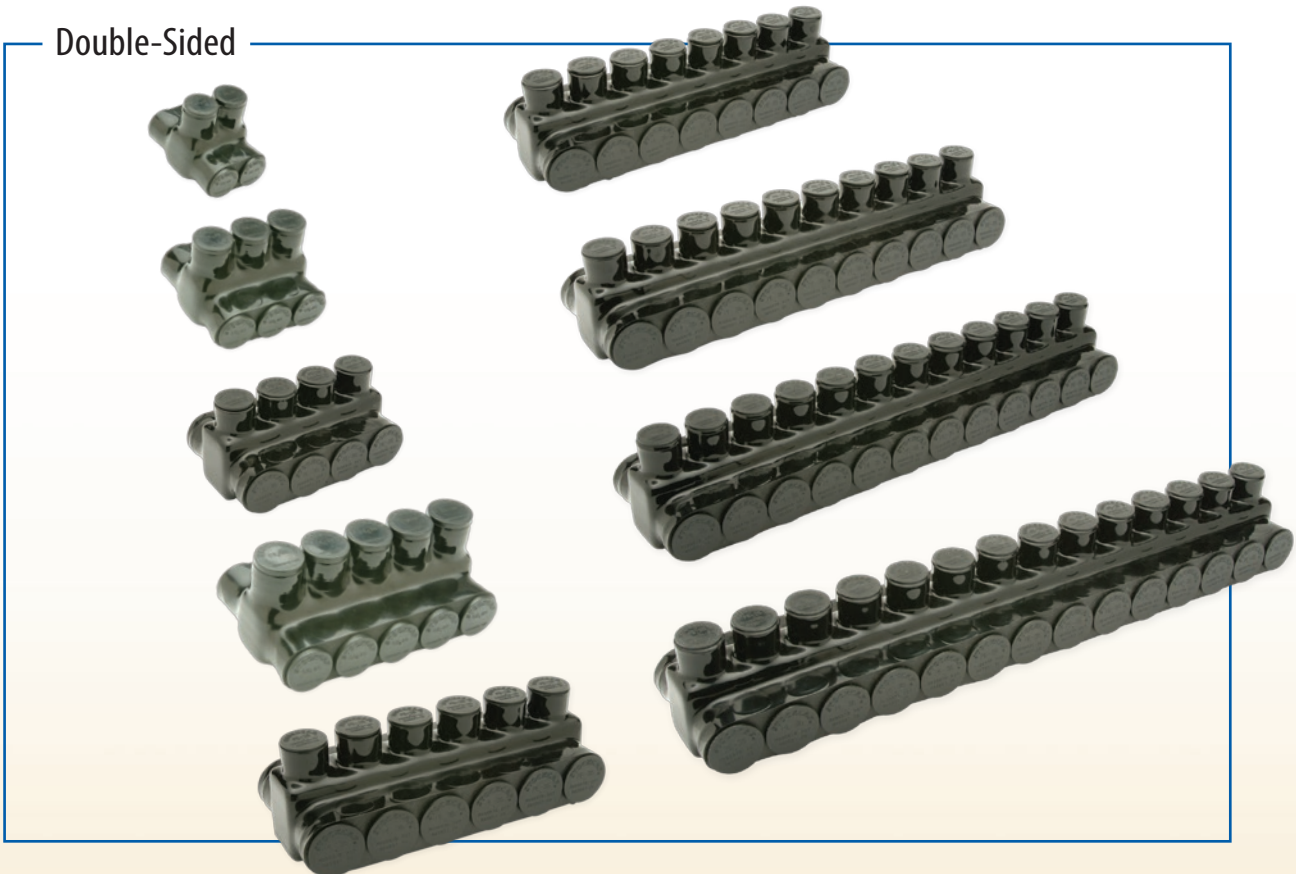
Aluminum Black Pre-Insulated Power Bars

Offered in single and double-sided, 2 to 14 ports

Single-Sided



Double-Sided







CONNECTING YOUR TOMORROW.™

Construction

Utilities

Power Transmission

Industrial

Telecom

Renewable Energy

Aerospace

Rail Systems

MRO



MECHANICAL CONNECTORS



Copper Alloy Split Bolt Connectors

Types S and SEL

- Manufactured from high strength copper alloy - highly resistant to corrosion and season cracking
- For use with a wide range of copper solid, compact, compressed, concentric, copperweld conductors, and rebar
- Approved for electrical power, grounding/bonding, and direct burial applications

Application/Use:

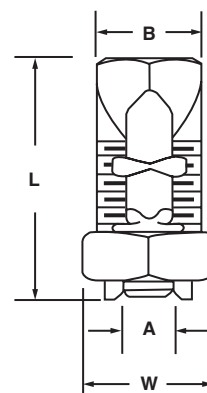
- **Type S** is for use with two conductors in electrical power applications; 2 conductors or conductor to rebar in grounding/bonding and direct burial applications in earth and concrete
- **Type SEL** is for use with two or three conductors in electrical power, grounding/bonding, and direct burial applications in earth and concrete
- DB permanently marked on head for conductor sizes up to 500 kcmil

High Quality Design:

- True hex design allows easy installation with standard tooling
- Under torque, this design provides high contact pressure between conductors or conductor to rebar
- Pressure bar design features give assurance of high “pull-out” and secure connection on all combinations of conductors
- Wide wire range
- Rated for copper conductors, 600 V, 90°C

Installation:

- Use with torque wrench, standard socket, box or open-end wrenches
- Reusable with proper installation practice



Type S - Two Conductors

CATALOG NUMBER	RANGE OF EQUAL RUN & TAP	MIN. TAP W/ ONE MAX. MAIN	MAX. CONDUCTOR COPPERWELD		UL ONLY REBAR W/ 6 OR 8 AWG	APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
			STR.	TYPE A		L	W	B	A	
S-10*	16 Str. - 10 Str.	16 Str.	-	-	-	.72	.50	.34	.13	80
S-8*	16 Str. - 8 Str.	16 Str.	-	-	-	.84	.50	.38	.15	80
S-6*	10 Sol. - 6 Sol.	16 Sol.	-	-	-	1.05	.63	.50	.17	165
S-4*	8 Sol. - 4 Sol.	16 Sol.	3 No. 12	8A	-	1.05	.69	.56	.22	165
S-3*	6 Sol. - 2 Sol.	12 Sol.	3 No. 9	5A	-	1.32	.81	.69	.33	275
S-2*	6 Sol. - 2 Str.	14 Str.	3 No. 7	3A	-	1.32	.81	.69	.33	275
S-1/0*	4 Sol. - 1/0 Str.	14 Sol.	3 No. 6	2A	-	1.64	.88	.75	.38	385
S-2/0	2 Sol. - 2/0 Str.	14 Str.	3 No. 5	-	#3 (3/8)	1.82	1.00	.81	.42	385
S-3/0	2 Sol. - 3/0 Str.	12 Sol.	7 No. 7	-	-	2.00	1.13	.88	.47	500
S-4/0-250	1/0 Sol. - 250 kcmil	10 Sol.	7 No. 5	-	#4 (1/2)	2.08	1.31	1.00	.58	650
S-350+	4/0 Str. - 350 kcmil	8 Sol.	19 No. 7	-	#5 (5/8)	2.63	1.63	1.50	.75	650
S-500+	250 - 500 kcmil	8 Sol.	19 No. 6	-	#6 (3/4)	3.00	1.81	1.63	.83	825
S-750++	350 - 750 kcmil	8 Sol.	19 No. 5	-	-	3.75	2.13	1.94	1.03	1000
S-1000++	500 - 1000 kcmil	8 Sol.	-	-	-	4.00	2.50	2.25	1.22	1100

+UL Only Grounding, Bonding, Direct Burial (350 & 500)

++ Not Approved Grounding, Bonding, Direct Burial

* RUS REA Accepted

Type SEL - Two or Three Conductors

CATALOG NUMBER	RANGE OF EQUAL RUN & TAP	MIN. TAP W/ ONE MAX. MAIN	MAX. CONDUCTOR COPPERWELD		APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
			STR.	TYPE A	L	W	B	A	
SEL-8*	16 Str. - 8 Str.	16 Str.	-	-	.84	.50	.38	.14	80
SEL-6*	10 Sol. - 6 Sol.	16 Sol.	-	-	1.09	.63	.50	.17	165
SEL-4*	8 Sol. - 4 Sol.	16 Sol.	3 No. 12	8A	1.27	.69	.56	.22	165
SEL-2*	6 Sol. - 2 Str.	14 Str.	3 No. 7	3A	1.55	.81	.69	.33	275

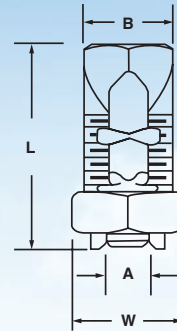
CONNECTOR TYPE	POWER	UL-467 GROUNDING			CSA C22.2 NO. 41 GROUNDING		
	UL 486A-B CSA 22.2 NO. 65 WIRE RANGE	UL GROUNDING MAX. WIRE	GROUNDING & BONDING	DIRECT BURIAL REBAR	CSA GROUNDING MAX. WIRE	GROUNDING & BONDING	DIRECT BURIAL
S SEL	16 Str. - 1000 kcmil	500 kcmil	Yes	Yes	250 kcmil	Yes	Yes

Copper Alloy Split Bolt Connectors

Type SW

For copper to copper, copper to aluminum & aluminum to aluminum

- Manufactured from high strength copper alloy - highly resistant to corrosion and season cracking
- True hex design allows easy installation with standard tooling
- The design provides, under torque, high contact pressure between conductors
- Electro-tin plated bolt, nut, spacer, and pressure bar
- Use of an oxide inhibiting compound is recommended with this connector



CATALOG NUMBER	COPPER AND ALUMINUM		ACSR RANGE OF MAIN OR TAP	GUY STR. (IN.)	MAX. CONDUCTOR COPPERWELD		APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
	RANGE OF EQUAL MAIN & TAP	MIN. TAP WITH ONE MAX. MAIN			STR.	TYPE A	L	W	B	A	
SW-3	14 Str. - 8 Str.	14 Str.	8	.16	-	-	1.11	.63	.44	.17	165
SW-4	10 Str. - 6 Str.	10 Sol.	6	.22	3 No. 12	8A	1.26	.69	.50	.22	165
SW-5▲	8 Sol. - 4 Str.*	8 Sol.	6-4	.25	3 No. 9	5A	1.55	.81	.63	.33	275
SW-6▲	8 Sol. - 2 Str.	8 Sol.	6-2	.31	3 No. 7	3A	1.55	.81	.63	.33	275

▲ RUS accepted

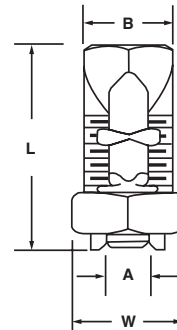
*UL486A-B listed with 2 Sol. cu

Copper Alloy Split Bolt Connectors

Type SW

For copper to copper*

- Made from high strength copper alloy - highly resistant to corrosion and season cracking
- True hex design allows easy installation with standard tooling
- The design provides, under torque, high contact pressure between conductors
- Electro-tin plated bolt, nut, spacer, and pressure bar



CATALOG NUMBER	COPPER CONDUCTOR RANGE*		ALUMINUM CONDUCTOR RANGE (NOT UL LISTED)		COPPERWELD MAX. STR.	APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
	EQUAL MAIN & TAP	MIN. TAP WITH ONE MAX. MAIN	ALUMINUM	ACSR		L	W	B	A	
SW-1▲	16 Str. - 10 Str.	16 Str.	16 Str. - 10 Str.	-	-	.83	.50	.38	.14	80
SW-2▲	16 Str. - 8 Str.	16 Str.	16 Str. - 8 Str.	-	-	.83	.50	.38	.14	80
SW-7▲	6 Sol. - 1/0 Str.	10 Sol.	6 Sol. - 1/0 Str.	6-1	3 No. 6	1.66	.88	.69	.38	385
SW-8▲	6 Str. - 2/0 Str.	10 Sol.	6 Str. - 2/0 Str.	6-1/0	3 No. 5	1.79	1.00	.75	.42	385
SW-9A	4 Str. - 3/0 Str.	6 Sol.	4 Str. - 3/0 Str.	6-2/0	7 No. 7	2.00	1.19	1.06	.48	500
SW-10	4 Str. - 250 kcmil	4 Str.	4 Str. - 250 kcmil	4-4/0	7 No. 5	2.33	1.31	1.13	.58	650
SW-11	3/0 Str. - 350 kcmil	1 Sol.	3/0 Str. - 350 kcmil	2/0-336.4 18/1	19 No. 7	2.63	1.50	1.63	.75	650
SW-12	3/0 Str. - 500 kcmil	1/0 Str.	3/0 Str. - 500 kcmil	2/0-477 18/1	19 No. 6	3.00	1.44	1.63	.83	825
SW-13	250 - 750 kcmil	2/0 Str.	250 - 750 kcmil	4/0-666.6	19 No. 5	3.75	2.13	1.94	1.02	1000
SW-14	350 - 1000 kcmil	4/0 Str.	350 - 1000 kcmil	300-900	-	4.00	2.50	2.25	1.22	1100

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

▲ RUS accepted

Aluminum Split Bolt Connectors

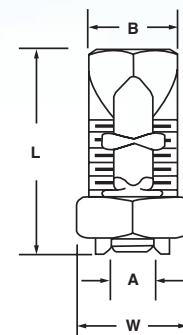
Type SWA

For aluminum to aluminum, copper to aluminum & copper to copper

- Made from high strength, heat treated aluminum alloy - highly resistant to corrosion
- True hex design allows easy installation with standard tooling
- 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 UL486A-B standard
- Use of an oxide inhibitor is recommended with this connector



CATALOG NUMBER	RANGE OF EQUAL MAIN & TAP (COPPER AND ALUMINUM)	APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
		L	W	B	A	
SWA-7	6 Sol. - 1/0 Str.	1.81	1.00	.75	.38	385
SWA-8	2 Sol. - 2/0 Str.	2.12	1.12	.88	.42	390
SWA-10	1/0 Str. - 250 kcmil	2.63	1.50	.19	.58	650
SWA-11	2/0 Str. - 350 kcmil	2.91	1.63	1.31	.75	650
SWA-12	3/0 Str. - 500 kcmil	3.28	1.81	1.44	.83	825



Copper Service Entrance Connectors

Type SX

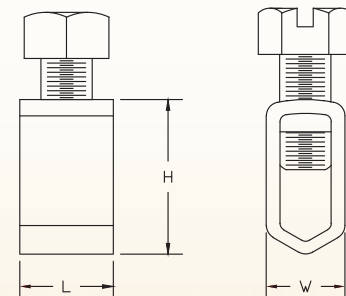
For use with copper wire or cable

- Manufactured from electrolytic copper for maximum conductivity and strength
- Silicon bronze slotted hex screws allow for ease of installation with either screwdriver or wrench



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)		
		L	W	H
SX-12	12 Str.	.28	.25	.37
SX-10-8	10 Str. - 8 Str.	.30	.26	.48
SX-8-6 ▲	8 Sol. - 6 Str.	.41	.34	.68
SX-6-4 ▲	6 Sol. - 4 Str.	.48	.40	.79
SX-4-2	4 Sol. - 2 Str.	.75	.47	.93

▲ RUS accepted



Bronze Heavy Duty Parallel Clamps

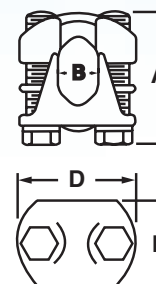
Type VT

For use with copper conductors

- Made from high strength bronze castings for assurance against stress corrosion and season cracking
- Designed for heavy-duty service connections
- The cap swivels to permit quick and easy installation of conductors
- Retaining rubber washer eliminates loose parts
- Silicon bronze bolts and lockwashers
- Flat back permits use as bus tap when used with longer bolts
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
	MAIN	TAP	A (BOLT LENGTH)	B	D	E	
VT-0	2 Str. - 1/0 Str.	10 Str. - 1/0 Str.	1.50	.41	1.44	.94	5/16
VT-1▲	2 Str. - 2/0 Str.	10 Str. - 2/0 Str.	1.50	.50	1.56	1.13	5/16
VT-2▲	1/0 Str. - 4/0 Str.	10 Str. - 4/0 Str.	1.75	.59	1.84	1.34	3/8
VT-3▲	250 - 350 kcmil	10 Str. - 350 kcmil	2.00	.75	2.31	1.63	1/2
VT-4▲	250 - 500 kcmil	10 Str. - 500 kcmil	2.25	.88	2.44	1.69	1/2
VT-5	400 - 800 kcmil	3/0 Str. - 800 kcmil	2.50	1.06	2.69	1.88	1/2
VT-6	500 - 1000 kcmil	3/0 Str. - 1000 kcmil	2.75	1.25	3.06	2.25	5/8



▲ RUS accepted

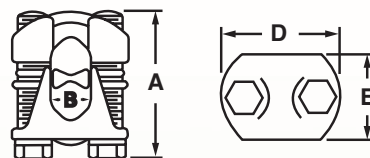
Bronze Heavy Duty Parallel Clamps

Type VTA

For use with copper conductors

- Manufactured from high strength bronze castings with high conductivity spacer bar
- All parts are tin plated
- Rubber retaining washer eliminates loose parts
- If no spacer bar is required, see Type VT above

Note: VTA-1 through VTA-6 can be used on aluminum conductors, but are not UL listed for that application



CATALOG NUMBER	COPPER CONDUCTOR RANGE					APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
	MAIN	TAP	COPPERWELD SOLID	ALUMINUM		A (BOLT LENGTH)	B	D	E	
				AWG	ACSR					
VTA-0+	2 Str. - 1/0 Str.	10 Str. - 1/0 Str.	2/0	1/0 Str.	1	1.25	.41	1.44	.94	5/16
VTA-1	2 Str. - 2/0 Str.	10 Str. - 2/0 Str.	3/0	—	—	1.50	.50	1.56	1.13	5/16
VTA-2	1/0 Str. - 4/0 Str.	10 Str. - 4/0 Str.	4/0			1.75	.59	1.84	1.34	3/8
VTA-3	250 - 350 kcmil	10 Str. - 350 kcmil	—			2.00	.75	2.31	1.63	1/2
VTA-4	250 - 500 kcmil	10 Str. - 500 kcmil	—			2.25	.88	2.44	1.69	1/2
VTA-5	400 - 800 kcmil	3/0 Str. - 800 kcmil	—			2.50	1.06	2.69	1.88	1/2
VTA-6	500 - 1000 kcmil	3/0 Str. - 1000 kcmil	—			2.75	1.25	3.06	2.25	5/8

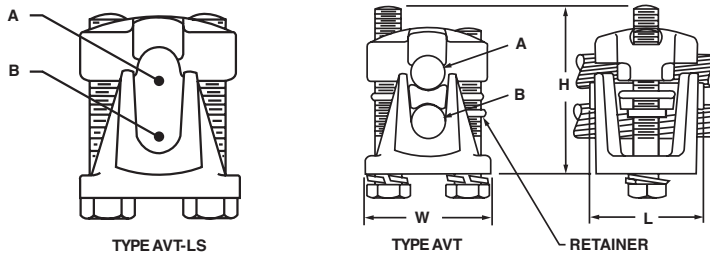
+Meets requirements for UL 486A-B

Balance of items UL listed copper to copper

Aluminum Heavy Duty Parallel Clamps

Type AVT

- Top and bottom castings are manufactured from high strength aluminum alloy
- Spacer is manufactured from pure high conductivity aluminum alloy
- Recommended for heavy duty dissimilar metal applications
- Accommodates a range of aluminum, copper, and ACSR conductors in either groove (place aluminum above copper) +
- Specially designed wrap-around finger on spacer minimizes cold flow over entire conductor range
- Rounded contours for easy taping
- Staking the longer of the two bolts makes the assembly one unit with no loose parts to drop
- Use of an oxide inhibitor is recommended for aluminum and ACSR installations



CATALOG NUMBER		CONDUCTOR RANGE (AWG, ACSR, AND AR*)		APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
STEEL HARDWARE	ALUMINUM HARDWARE	A MAIN	B TAP	H	L	W	
AVT-0 AVT-0LS	—	3 Sol. - 1/0 Str. 4 - 1/0 ACSR 6 AR	6 Sol. - 1/0 Str. 6 - 1/0 ACSR	2.88	1.56	1.63	5/16
AVT-1 AVT-1LS	—	2 Sol. - 3/0 Str. 3 - 2/0 ACSR 6 - 4 AR	6 Sol. - 3/0 Str. 8 - 2/0 ACSR	2.13	1.75	1.75	5/16
AVT-2 AVT-2LS	AVT-2A	1/0 Sol. - 250 kcmil 1 - 4/0 ACSR 6 - 4 AR	6 Sol. - 250 kcmil 6 - 4/0 ACSR	2.63	2.00	2.00	3/8
AVT-3	AVT-3A AVT-3ALS	3/0 Sol. - 350 kcmil 336.4 - 397.5 ACSR 2/0 - 3/0 AR	6 Sol. - 350 kcmil 6 - 336.4 ACSR	3.06	2.25	2.44	1/2
AVT-4	AVT-4A AVT-4ALS	350 - 500 kcmil 336.4 - 397.5 ACSR 2/0 - 3/0 AR	4 Sol. - 500 kcmil 5 - 397.5 ACSR	3.56	2.75	2.50	1/2
AVT-5	AVT-5A AVT-5ALS	350 - 874.5 kcmil 336.4 - 715.5 ACSR 4/0 - 397.5 AR	3/0 - 874.5 kcmil 3/0 - 715.5 ACSR	4.06	3.38	2.81	1/2
AVT-6	AVT-6A AVT-6ALS	450 - 1000 kcmil 397.5 - 900 ACSR 4/0 - 397.5 AR	3/0 - 1000 kcmil 3/0 - 900 ACSR	4.25	3.75	3.19	5/8

+Not recommended for copper to copper applications unless part is tin plated

*AR--Aluminum cable rating with Preformed Armor Rods

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

Add suffix "-BF" to catalog number for pre-filling with Cual-Aid and bagging

Suffix "-LS" for less spacer (same length hardware)

Bronze Variable Gutter Taps

Type VX

For 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



RoHS
COMPLIANT

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE A RUN	CONDUCTOR RANGE B TAP	APPROXIMATE DIMENSIONS (IN.)	
				J (BOLT SIZE)	M
VX-0	1	10 Sol. - 10 Str.	10 Sol. - 10 Str.	5/16	1.31
VX-1	1	6 Str. - 2 Str.	6 Str. - 2 Str.	5/16	1.31
VX-3	1	1 Str. - 4/0 Str.	6 Str. - 4/0 Str.	3/8	1.75
VX-4	1	250 - 500 kcmil	6 Str. - 2 Str.	3/8	2.19
VX-5S	1	250 - 500 kcmil	1/0 Str. - 300 kcmil	3/8	2.19
VX-6	1	250 - 500 kcmil	1 Str. - 500 kcmil	1/2	2.63
VX-7	1	500 - 1000 kcmil	6 Str. - 2/0 Str.	3/8	2.63
VX-8	1	500 - 1000 kcmil	1 Str. - 4/0 Str.	3/8	2.63
VX-8S	1	500 - 1000 kcmil	1/0 Str. - 300 kcmil	3/8	2.63
VX-10	2	500 - 1000 kcmil	250 - 1000 kcmil	3/8	2.86
VX-10S	2	750 - 1000 kcmil	750 - 1000 kcmil	1/2	3.00
VX-11	2	750 - 1000 kcmil	500 - 1000 kcmil	3/8	2.94
VX-12	2	750 - 1500 kcmil	750 - 1500 kcmil	1/2	3.25
VX-13	2	1000 - 2000 kcmil	1000 - 2000 kcmil	1/2	3.44

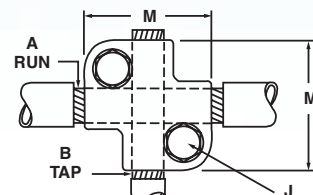


FIG. 1
2-Bolt

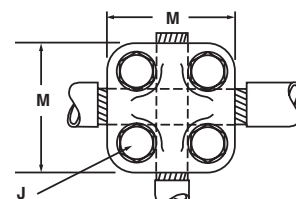


FIG. 2
4-Bolt

Terminal Connector

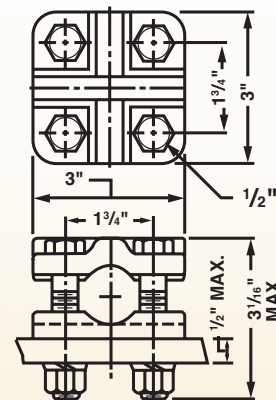
Type CTB

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

- Manufactured from high strength bronze 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 pads up to 1/2 in. thick



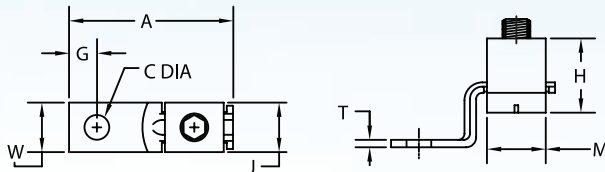
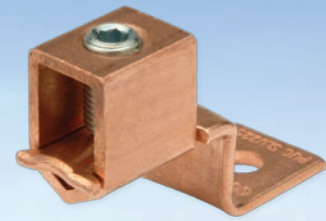
CATALOG NUMBER	CONDUCTOR RANGE	IPS RANGE
CTB-100	6 Sol. - 1000 kcmil	1/8 - 3/4



Copper Mechanical Lugs - One Hole, Single Collar

Types SLU & SAU (Offset Tongue)

- Manufactured from electrolytic copper for maximum conductivity and strength
- Unique design of the concave pressure bar and V-bottom collar assures positive contact and firm, permanent grip
- Offset tongue for joining a wide range of cable to equipment pads or bars
- Plated steel set screws resist corrosion
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	COPPER CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)								AMPERE RATING NEC	SET SCREW TYPE
		A	W	G	C (DIA.)	T	M	H	J		
SLU-25*	10 Str. - 14 Str.	.91	.31	.19	.16	.07	.28	.36	.25	25	Pan Head Slotted
SLU-35	6 Str. - 14 Sol.	1.31	.38	.23	.20	.07	.43	.50	.33	35-50	Pan Head Slotted
SAU-70	4 Str. - 14 Sol.	1.41	.50	.25	.27	.08	.43	.56	.38	70	Headless Slotted
SLU-70	2 Str. - 8 Sol.	1.55	.50	.25	.27	.09	.50	.65	.47	70-90	Headless Slotted
SLU-125	1/0 Str. - 8 Sol.	1.97	.63	.50	.27	.13	.63	.88	.62	125	Socket Hex
SLU-175	3/0 Str. - 4 Str.	2.19	.75	.44	.41	.13	.75	1.03	.71	175	Socket Hex
SLU-225	4/0 Str. - 6 Str.	2.38	1.00	.47	.34	.13	1.00	1.17	.75	225	Socket Hex
SLU-300	350 kcmil - 1/0 Str.	3.16	1.00	.50	.41	.19	1.23	1.39	1.00	300	Socket Hex
SLU-400	500 kcmil - 4/0 Str.	4.25	1.50	.88	.41	.19	1.50	1.57	1.16	400	Socket Hex
SLU-650	1000 - 600 kcmil	4.63	2.00	1.16	.53	.25	1.88	2.34	1.68	650	Socket Hex

*UL listed and CSA certified

Copper Mechanical Lugs - One Hole, Single Collar

Types SLS & SAS (Straight Tongue)

- Manufactured from electrolytic copper for maximum conductivity and strength
- Compact design joins a wide range of copper conductors to equipment or terminal blocks for power and grounding applications
- Plated steel set screws resist corrosion
- For tin plating, suffix catalog number with “-TN”
- UL 467 listed and UL 486A-B listed

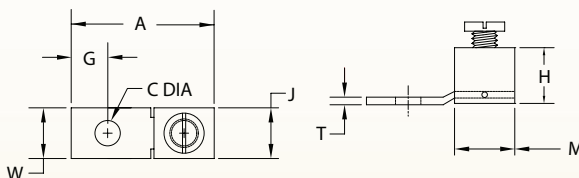


Fig. 1

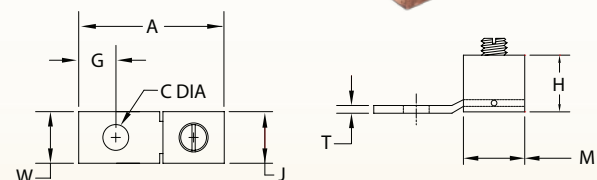
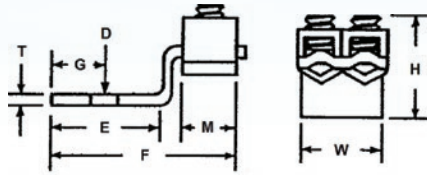
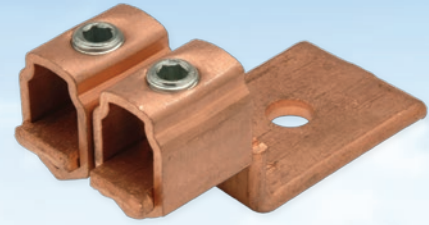


Fig. 2

CATALOG NUMBER	FIGURE NO.	COPPER CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)								AMPERE RATING NEC	SET SCREW TYPE
			A	W	G	C (DIA.)	T	M	H	J		
SLS-35	1	6 Str. - 14 Str.	1.00	.37	.24	.20	.06	.37	.47	.34	35-50	Pan Head Slotted
SAS-70	2	4 Str. - 14 Str.	1.26	.50	.38	.27	.08	.49	.53	.44	70	Headless Slotted

Copper Mechanical Lugs - One Hole, Double Collar Types LU (Offset Tongue)

- Manufactured from electrolytic copper for maximum conductivity and strength
- Unique design of the concave pressure bar and V-bottom collar assures positive contact and firm, permanent grip
- Offset tongue for joining a wide range of cable to equipment pads or bars
- Plated steel set screws resist corrosion
- For tin plating, suffix catalog number with “-TN”

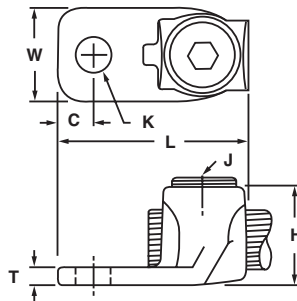


CATALOG NUMBER	COPPER CONDUCTOR RANGE	APPROXIMATE DIMENSIONS								AMPERE RATING NEC	SET SCREW TYPE
		D (DIA.)	E	F	G	H	M	T	W		
LU-2	4/0 Str. - 2/0 Str.	.41	1.94	3.34	.94	1.88	1.00	.18	1.50	400	Socket Hex
LU-4	350 kcmil - 1/0 Str.	.41	1.75	3.50	.66	2.22	1.25	.19	1.75	600	Socket Hex
LU-6	500 kcmil - 4/0 Str.	.53	2.19	4.44	.84	2.56	1.50	.25	2.00	800	Socket Hex

Bronze Terminal Lugs - One Hole Tongue Type PNL

For use with one copper conductor

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Used for joining a wide range of copper conductors to equipment pads or bus bars
- Plated steel set screw provides high strength connection
- Annular serrations in conductor grooves of PNL-500 and PNL-1000 provide improved mechanical performance
- Flat bottoms allow for complete contact with mounting surface
- Inspection hole allows for visual confirmation of proper cable insertion
- Lug can be furnished electro-tin or silver plated
- For tin plating, suffix catalog number with “-TN”, “-SV” for silver plating



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)							HEX SIZE
		C	K (DIA.)	H	L	T	W	J (SCREW THREAD)	
PNL-8	14 Sol. - 8 Str.	.19	.20	.44	.88	.09	.38	#12 - 24	Slot
PNL-4	14 Sol. - 4 Str.	.27	.27	.56	1.25	.14	.53	5/16 - 24	Slot
PNL-1/0	8 Sol. - 1/0 Str.	.38	.33	.78	1.59	.14	.73	1/2 - 20	1/4
PNL-250	6 Sol. - 250 kcmil	.44	.39	1.05	1.97	.13	.94	5/8 - 18	5/16
PNL-500	4 Sol. - 500 kcmil	.75	.53	1.47	3.00	.25	1.38	1 5/16 - 16	3/8
PNL-1000	500 - 1000 kcmil	.69	.56	2.00	3.88	.38	1.75	1 3/8 - 14	1/2

Bronze Terminal Lugs - Two or Four Hole Tongue Type PNL

For use with one copper conductor

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Used for joining a wide range of copper conductors to equipment pads or bus bars
- Plated steel set screw provides high strength connection
- Two and four hole mounting pads allow for maximum surface contact in heavy duty applications
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Lug can be furnished electro-tin or silver plated
- For tin plating, suffix catalog number with “-TN”, “-SV” for silver plating

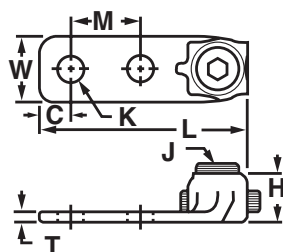


FIG. 1

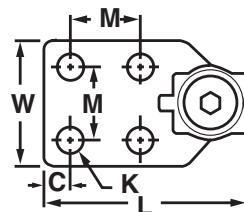


FIG. 2

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)								HEX SIZE
			C	K (DIA.)	H	L	T	W	M	J (SCREW THREAD)	
PNL-1/0-2	1	8 Sol. - 1/0 Str.	.44	.34	.84	2.75	.19	.75	1.00	1/2 - 20	1/4
PNL-1/0-2N	1		.63	.56	.84	3.56	.19	1.00	1.75	1/2 - 20	1/4
PNL-250-2	1	6 Sol. - 250 kcmil	.44	.44	1.03	2.88	.22	.94	1.00	5/8 - 18	1/4
PNL-250-2N	1		.63	.56	1.13	4.25	.22	1.00	1.75	3/4 - 16	3/8
PNL-500-2	1	4 Sol. - 500 kcmil	.44	.44	1.47	3.38	.31	1.38	1.00	1 5/16 - 16	3/8
PNL-500-2N	1		.63	.56	1.47	4.38	.31	1.38	1.75	1 5/16 - 16	3/8
PNL-500-4N	2		.63	.56	1.47	4.38	.25	3.00	1.75	1 5/16 - 16	3/8
PNL-1000-2	1	500 - 1000 kcmil	.56	.56	2.00	4.88	.38	1.75	1.50	1 3/8 - 14	3/8
PNL-1000-2N	1		.53	.56	2.00	4.88	.38	1.94	1.75	1 3/8 - 14	3/8
PNL-1000-4N	2		.53	.56	2.00	4.88	.25	3.00	1.75	1 3/8 - 14	3/8

• CSA listed

Bronze Terminal Lugs - Two or Four Hole Tongue Type P2NL

For use with two copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Used for joining a wide range of copper conductors to equipment pads or bus bars
- Plated steel set screw provides high strength connection
- Two and four hole mounting pads allow for maximum surface contact in heavy duty applications
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Lug can be furnished electro-tin or silver plated
- For tin plating, suffix catalog number with "-TN", "-SV" for silver plating

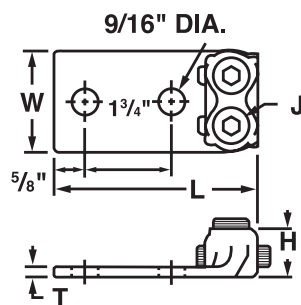


Fig. 1

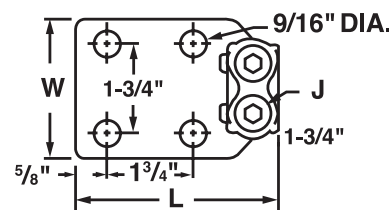


Fig. 2

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					HEX SIZE
			H	L	T	W	J (SCREW THREAD)	
P2NL-1/0-2N	1	8 Sol. - 1/0 Str.	.84	3.88	.31	1.50	1/2 - 20	1/4
P2NL-1/0-4N	2		.84	3.88	.25	3.00	1/2 - 20	1/4
P2NL-250-2N	1	6 Sol. - 250 kcmil	1.13	4.00	.31	1.75	3/4 - 16	3/8
P2NL-250-4N	2		1.13	4.00	.25	3.00	3/4 - 16	3/8
P2NL-500-2N	1	4 Sol. - 500 kcmil	1.47	4.50	.38	2.50	15/16 - 16	3/8
P2NL-500-4N	2		1.47	4.50	.31	3.00	15/16 - 16	3/8
P2NL-1000-2N	1	500 - 1000 kcmil	2.00	4.88	.50	3.00	1 3/8 - 14	3/8
P2NL-1000-4N	2		2.00	4.88	.50	3.00	1 3/8 - 14	3/8

Bronze Terminal Lugs - Two or Four Hole Tongue with Tandem Set Screws

Types PPNL and PP2NL

For use with one or two copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Used for joining a wide range of copper conductors to equipment pads or bus bars
- Plated steel set screws provide high strength connection
- Tandem set screws provide superior mechanical performance for heavy duty applications
- Two and four hole mounting pads allow for maximum surface contact in heavy duty applications
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Lug can be furnished electro-tin or silver plated
- For tin plating, suffix catalog number with "-TN", "-SV" for silver plating

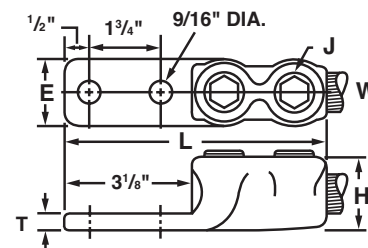


RoHS
COMPLIANT

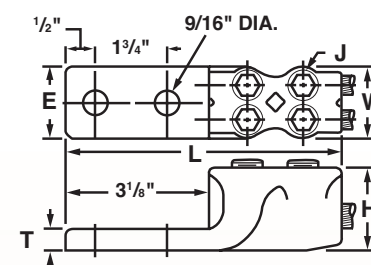
Type PPNL (One Conductor)

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					
		E	H	J (SCREW THREAD)	L	T	W
PPNL-4/0-2	4 Str. - 4/0 Str.	1.13	1.03	5/8 - 18	4.88	.25	.88
PPNL-4/0-4		3.00					
PPNL-350-2	3/0 Str. - 350 kcmil	1.13	1.25	3/4 - 16	5.19	.31	1.03
PPNL-350-4		3.00					
PPNL-800-2	400 - 800 kcmil	1.63	1.81	1 1/4 - 14	6.44	.41	1.63
PPNL-800-4		3.00					
PPNL-1000-2	750 - 1000 kcmil	1.75	2.00	1 3/8 - 14	6.75	.50	1.75
PPNL-1000-4		3.00					

Suffix -2, -4 denotes 2 or 4 hole tongue



TYPE PPNL

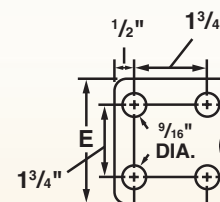


TYPE PP2NL

Type PP2NL (Two Conductors)

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					
		E	H	J (SCREW THREAD)	L	T	W
PP2NL-4/0-2	4 Str. - 4/0 Str.	1.75	1.03	5/8 - 18	4.16	.31	1.75
PP2NL-4/0-4		3.00					
PP2NL-350-2	3/0 Str. - 350 kcmil	2.06	1.25	3/4 - 16	4.31	.38	2.09
PP2NL-350-4		3.00					
PP2NL-800-2	400 - 800 kcmil	1.63	1.81	1 1/4 - 14	4.94	.50	3.31
PP2NL-800-4		3.00					
PP2NL-1000-2	750 - 1000 kcmil	1.75	2.00	1 3/8 - 14	5.13	.56	3.63
PP2NL-1000-4		3.00					

Suffix -2, -4 denotes 2 or 4 hole tongue

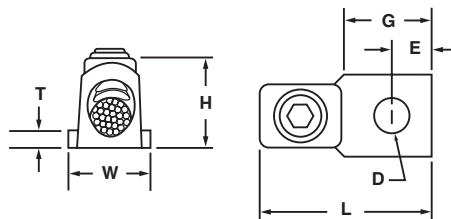


STANDARD
4 HOLE NEMA
DRILLING

Bronze Vi-Tite Terminal Lugs - One Hole, Square Tongue Type VL

For use with one copper conductor

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number*
- For tin plating, suffix catalog number with “-TN”



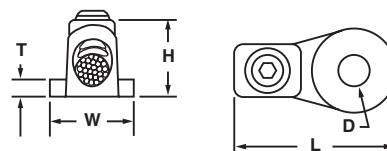
CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)							MTG. BOLT SIZE	HEX SIZE
		T	W	D (DIA.)	E	G	H	L		
VL-21683	4 Sol. - 1 Str.	.22	.63	.28	.38	.88	.88	1.69	1/4	3/16
VL-21685	2 Str. - 2/0 Str.	.25	.81	.41	.44	1.00	1.03	1.88	3/8	1/4
VL-21687	1/0 Str. - 4/0 Str.	.25	1.00	.41	.50	1.25	1.28	2.38	3/8	1/4
VL-21689	3/0 Str. - 300 kcmil	.31	.81	.53	.75	1.50	1.38	2.69	1/2	3/8
VL-21691	300 - 500 kcmil	.38	1.50	.69	.75	1.63	1.81	3.00	5/8	3/8
VL-21692		.38	1.38	.53	.88	1.88	1.81	3.13	1/2	3/8
VL-21694	500 - 800 kcmil	.41	1.75	.53	1.00	2.19	1.88	3.69	1/2	3/8
VL-21697	700 - 1000 kcmil	.44	2.00	.69	1.00	2.19	2.06	4.00	5/8	3/8
VL-21698		.44	2.00	.69	1.19	2.50	2.06	4.00	5/8	3/8
VL-21986	1000 - 1500 kcmil	.50	2.13	.81	1.06	2.13	2.31	4.75	3/4	1/2
VL-21987	1500 - 2000 kcmil	.56	2.50	.81	1.19	2.38	2.69	5.13	3/4	1/2

*Note: Catalog numbers with “-HH” suffix are not UL listed

Bronze Vi-Tite Terminal Lugs - One Hole, Round Tongue Type VL

For use with one copper conductor

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Round tongue accommodates full washer clearance and adjustable lug orientation
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number*
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					MTG. BOLT SIZE	HEX SIZE
		T	W	D (DIA.)	H	L		
VL-22003	8 Sol. - 6 Str.	.16	1.00	.41	.63	1.50	3/8	5/32
VL-22004		.16	1.13	.53	.63	1.63	1/2	
VL-22008	4 Sol. - 1 Str.	.19	.75	.34	.88	1.56	5/16	3/16
VL-22009		.19	1.00	.41	.88	1.81	3/8	
VL-22010		.19	1.00	.53	.88	1.81	1/2	
VL-22014	2 Str. - 2/0 Str.	.25	1.00	.41	1.00	1.88	3/8	1/4
VL-22015		.25	1.00	.53	1.00	1.88	1/2	
VL-22017		.25	1.50	.78	1.00	2.63	3/4	
VL-22018		.25	2.00	.91	1.00	2.88	7/8	
VL-22023	1/0 Str. - 4/0 Str.	.19	1.00	.53	1.25	2.25	1/2	1/4
VL-22025		.31	1.50	.78	1.13	2.63	3/4	
VL-22026		.31	2.00	.91	1.25	3.13	7/8	
VL-22029	3/0 Str. - 300 kcmil	.34	1.50	.53	1.38	2.75	1/2	3/8
VL-22031		.34	1.50	.78	1.38	2.75	3/4	
VL-22032		.34	2.00	.91	1.38	3.25	7/8	
VL-22035	300 - 500 kcmil	.38	1.50	.53	1.81	2.88	1/2	3/8
VL-22038		.38	2.00	.91	1.81	3.38	7/8	
VL-22043	500 - 800 kcmil	.44	1.50	.53	1.81	3.00	1/2	3/8
VL-22046		.44	2.00	.91	1.81	3.50	7/8	
VL-22049		.44	2.50	1.19	1.81	4.00	1	
VL-22053	700 - 1000 kcmil	.47	1.50	.53	2.06	3.25	1/2	3/8

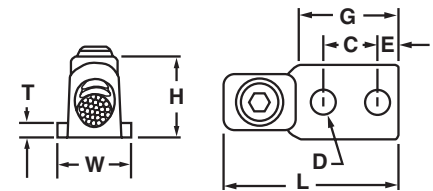
*Note: Catalog numbers with suffix “-HH” are not UL listed

Bronze Vi-Tite Terminal Lugs - Two Hole Tongue

Type VL

For use with one copper conductor

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Two hole mounting pads allow for maximum surface contact in heavy duty applications
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number*
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)								MTG. BOLT SIZE	HEX SIZE
		T	W	C	D (DIA.)	E	G	H	L		
VL-21761	8 Sol. - 6 Str.	.13	.50	.63	.28	.25	1.44	.63	2.00	1/4	5/32
VL-21763	4 Sol. - 1 Str.	.22	.63	.75	.28	.28	1.44	.88	2.25	1/4	3/16
VL-21764		.22	.75	1.00	.44	.44	2.13	.88	3.00	3/8	
VL-21765		.22	.75	.75	.31	.41	1.63	.88	2.50	1/4	
VL-21766		.22	1.00	1.00	.44	.53	2.13	.88	3.00	3/8	
VL-21767	2 Str. - 2/0 Str.	.25	.81	1.00	.41	.44	2.13	1.00	3.00	3/8	1/4
VL-21768		.25	1.00	1.75	.56	.56	3.00	1.00	3.88	1/2	
VL-21769		.25	1.00	.75	.31	.41	1.63	1.00	2.50	1/4	
VL-21770		.25	1.00	1.00	.44	.53	2.13	1.00	3.00	3/8	
VL-21773/76	1/0 Str. - 4/0 Str.	.22	1.00	1.00	.44	.44	2.13	1.25	3.25	3/8	1/4
VL-21774		.28	1.00	1.75	.56	.56	3.00	1.25	4.13	1/2	
VL-21775		.19	1.00	.75	.31	.41	1.63	1.25	2.75	1/4	
VL-21779	3/0 Str. - 300 kcmil	.31	1.19	1.00	.41	.44	2.13	1.38	3.38	3/8	3/8
VL-21780		.31	1.19	1.75	.56	.56	3.00	1.38	4.25	1/2	
VL-21781		.31	1.50	.75	.44	.41	1.63	1.38	2.88	3/8	
VL-21782		.31	1.50	1.00	.44	.53	2.13	1.38	3.38	3/8	
VL-21784	300 - 500 kcmil	.38	1.38	1.00	.41	.44	2.13	1.81	3.50	3/8	3/8
VL-21785		.38	1.38	1.75	.56	.56	3.50	1.81	4.75	1/2	
VL-21786		.38	1.50	.75	.44	.41	1.63	1.81	3.00	3/8	
VL-21787		.38	1.50	1.00	.44	.53	2.13	1.81	3.50	3/8	
VL-21789	500 - 800 kcmil	.41	1.75	1.50	.56	.56	3.00	1.81	4.50	1/2	3/8
VL-21790		.41	1.75	1.75	.56	.56	3.50	1.81	5.00	1/2	
VL-21791		.41	1.75	1.00	.44	.53	2.19	1.81	3.75	3/8	
VL-21794	700 - 1000 kcmil	.44	2.00	1.50	.56	.56	3.00	2.06	4.75	1/2	3/8
VL-21795		.44	2.00	1.75	.56	.63	3.50	2.06	5.25	1/2	
VL-21796		.44	2.00	1.00	.44	.53	2.19	2.06	4.00	3/8	

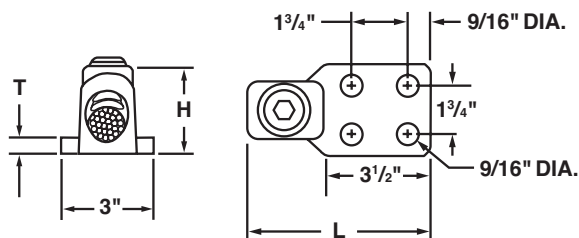
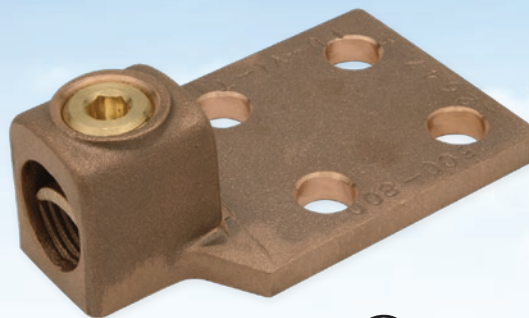
*Note: Catalog numbers with suffix “-HH” are not UL listed

Bronze Vi-Tite Terminal Lugs - Four Hole Tongue

Type VL

For use with one copper conductor

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Four hole mounting pads allow for maximum surface contact in heavy duty applications
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number*
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			MTG. BOLT SIZE	HEX SIZE
		T	H	L		
VL-21917	3/0 Str. - 300 kcmil	.31	1.25	4.25	1/2	3/8
VL-21919	300 - 500 kcmil	.38	1.81	4.75		
VL-21921	500 - 800 kcmil	.41	1.50	5.00		
VL-21925	700 - 1000 kcmil	.44	1.75	5.25		

*Note: Catalog numbers with suffix “-HH” are not UL listed

Bronze Vi-Tite Terminal Lugs - Two or Four Hole Tongue w/ Tandem Set Screws Type VVL

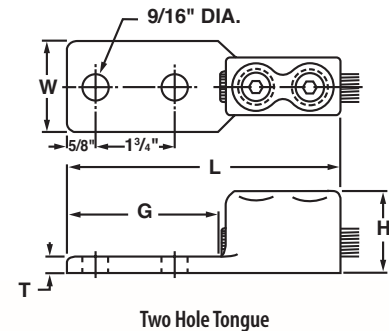
For use with one copper conductor

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Two and four hole mounting pads allow for maximum surface contact in heavy duty applications
- Tandem set screws provide superior mechanical performance
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number
- For tin plating, suffix catalog number with “-TN”



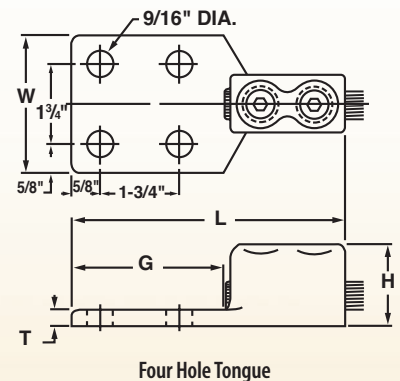
2 Hole Tongue

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					MTG. BOLT SIZE	HEX SIZE
		L	W	H	G	T		
VVL-21766	4 Sol. - 1 Str.	4.63	1.25	.88	3.00	.25	1/2	3/16
VVL-21768	2 Str. - 2/0 Str.	4.75	1.25	1.03	3.00	.25		1/4
VVL-21774	1/0 Str. - 4/0 Str.	5.13	1.00	1.28	3.00	.25		1/4
VVL-21780/82	3/0 Str. - 350 kcmil	5.38	1.19	1.38	3.00	.31		3/8
VVL-21785	300 - 500 kcmil	6.13	1.38	1.81	3.50	.38		3/8
VVL-21790	500 - 800 kcmil	6.50	1.75	1.81	3.25	.38		3/8
VVL-21795	700 - 1000 kcmil	6.75	2.00	2.06	3.25	.44		3/8
VVL-21797	1000 - 1500 kcmil	7.25	2.00	2.31	3.25	.63		1/2
VVL-21799	1500 - 2000 kcmil	8.63	2.50	2.75	3.25	.63		1/2



4 Hole Tongue

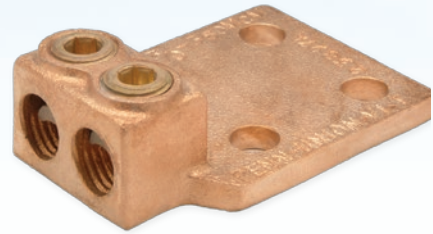
CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					MTG. BOLT SIZE	HEX SIZE
		L	W	H	G	T		
VVL-21918	3/0 Str. - 350 kcmil	5.25	3.00	1.25	3.00	.31	1/2	1/2
VVL-21919	300 - 500 kcmil	6.13	3.00	1.81	3.50	.38		3/8
VVL-21921	500 - 800 kcmil	6.50	3.00	1.81	3.25	.38		3/8
VVL-21925	700 - 1000 kcmil	6.50	3.00	2.06	3.25	.38		3/8
VVL-21926	1000 - 1500 kcmil	7.25	3.00	2.31	3.25	.50		1/2
VVL-21928	1500 - 2000 kcmil	8.63	3.00	2.75	3.25	.63		1/2



Bronze Vi-Tite Terminal Lugs - Two or Four Hole Tongue Type VL2

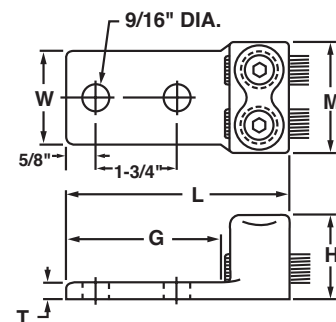
For use with two copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Two and four hole mounting pads allow for maximum surface contact in heavy duty applications
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number
- For tin plating, suffix catalog number with “-TN”



2 Hole Tongue

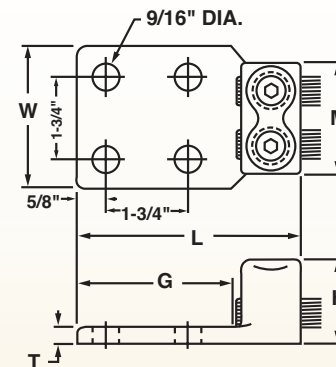
CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VL2-21766	4 Sol. - 1 Str.	3.94	1.19	.75	.88	3.38	.22	1/2	3/16
VL2-21768	2 Str. - 2/0 Str.	4.00	1.50	1.50	1.03	3.13	.22		1/4
VL2-21774	1/0 Str. - 4/0 Str.	4.25	1.75	1.75	1.28	3.13	.25		1/4
VL2-21782	3/0 Str. - 350 kcmil	4.31	1.94	1.50	1.38	3.13	.31		3/8
VL2-21785	300 - 500 kcmil	4.50	2.38	2.00	1.81	3.50	.38		3/8
VL2-21790	500 - 800 kcmil	4.63	2.81	2.13	1.81	3.13	.44		3/8
VL2-21795	700 - 1000 kcmil	5.31	3.13	2.38	2.06	3.13	.50		3/8
VL2-21797	1000 - 1500 kcmil	6.00	4.00	2.88	2.31	3.25	.63		1/2
VL2-21799	1500 - 2000 kcmil	6.13	4.38	3.00	2.69	3.25	.75		1/2



Two Hole Tongue

4 Hole Tongue

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VL2-21918	3/0 Str. - 350 kcmil	4.31	3.00	3.00	1.38	3.13	.31	1/2	3/8
VL2-21919	300 - 500 kcmil	4.44	2.38	3.00	1.81	3.13	.38		3/8
VL2-21921	500 - 800 kcmil	4.63	2.81	3.00	1.81	3.13	.44		3/8
VL2-21925	700 - 1000 kcmil	5.31	3.13	3.25	2.06	3.25	.50		3/8
VL2-21926	1000 - 1500 kcmil	6.00	4.00	3.50	2.31	3.25	.63		1/2
VL2-21928	1500 - 2000 kcmil	6.13	4.38	4.00	2.69	3.25	.63		1/2



Four Hole Tongue

Bronze Vi-Tite Terminal Lugs - Two or Four Tongue with Tandem Set Screws

Type VVL2

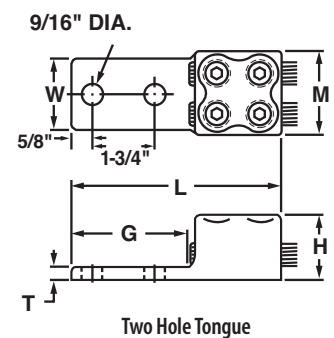
For use with two copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Two and four hole mounting pads allow for maximum surface contact in heavy duty applications
- Tandem set screws provide superior mechanical performance
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number
- For tin plating, suffix catalog number with “-TN”



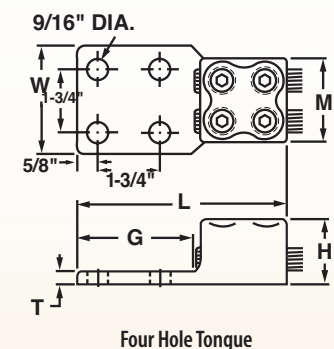
2 Hole Tongue

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VVL2-21766	4 Sol. - 1 Str.	4.75	1.25	1.50	.88	3.13	.25	1/2	3/16
VVL2-21768	2 Str. - 2/0 Str.	4.88	1.50	1.50	1.03	3.13	.25		1/4
VVL2-21774	1/0 Str. - 4/0 Str.	5.25	1.75	1.75	1.28	3.13	.25		1/4
VVL2-21780/82	3/0 Str. - 350 kcmil	5.50	1.94	1.50	1.38	3.13	.31		3/8
VVL2-21785	300 - 500 kcmil	5.75	2.38	2.38	1.81	3.13	.38		3/8
VVL2-21790	500 - 800 kcmil	6.13	2.81	1.75	1.81	3.13	.50		3/8
VVL2-21795	700 - 1000 kcmil	6.63	3.13	2.13	2.06	3.13	.50		3/8
VVL2-21797	1000 - 1500 kcmil	7.75	4.13	2.75	2.31	3.13	.56		1/2
VVL2-21799	1500 - 2000 kcmil	8.00	4.38	3.00	2.69	3.13	.63		1/2



4 Hole Tongue

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VVL2-21918	3/0 Str. - 350 kcmil	5.50	1.94	3.00	1.38	3.13	.56	1/2	3/8
VVL2-21919	300 - 500 kcmil	5.75	2.38	3.00	1.81	3.13	.38		3/8
VVL2-21921	500 - 800 kcmil	6.13	2.81	3.00	1.81	3.13	.44		3/8
VVL2-21925	700 - 1000 kcmil	6.63	3.13	4.00	2.06	3.13	.50		3/8
VVL2-21926	1000 - 1500 kcmil	7.75	4.13	4.00	2.31	3.13	.50		1/2
VVL2-21928	1500 - 2000 kcmil	8.00	4.38	4.00	2.69	3.13	.63		1/2



Bronze Vi-Tite Terminal Lugs - Two or Four Hole Tongue Type VL3

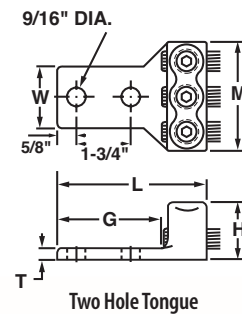
For use with three copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Two and four hole mounting pads allow for maximum surface contact in heavy duty applications
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number
- For tin plating, suffix catalog number with “-TN”



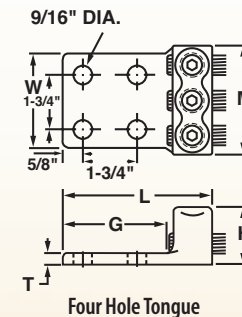
2 Hole Tongue

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VL3-21766	4 Sol. - 1 Str.	3.94	1.88	1.50	.88	3.13	.25	1/2	3/16
VL3-21768	2 Str. - 2/0 Str.	4.00	2.19	1.63	1.03	3.13	.22		1/4
VL3-21774	1/0 Str. - 4/0 Str.	4.25	2.63	1.88	1.28	3.13	.25		1/4
VL3-21782	3/0 Str. - 350 kcmil	4.31	2.88	1.50	1.38	3.13	.31		3/8
VL3-21785	300 - 500 kcmil	4.50	3.50	2.50	1.81	3.13	.38		3/8
VL3-21790	500 - 800 kcmil	4.63	4.19	2.50	1.81	3.13	.44		3/8
VL3-21795	700 - 1000 kcmil	5.31	4.63	2.50	2.06	3.25	.50		3/8
VL3-21797	1000 - 1500 kcmil	6.00	6.00	2.50	2.31	3.13	.63		1/2
VL3-21799	1500 - 2000 kcmil	6.13	6.75	3.00	2.69	3.13	.63		1/2



4 Hole Tongue

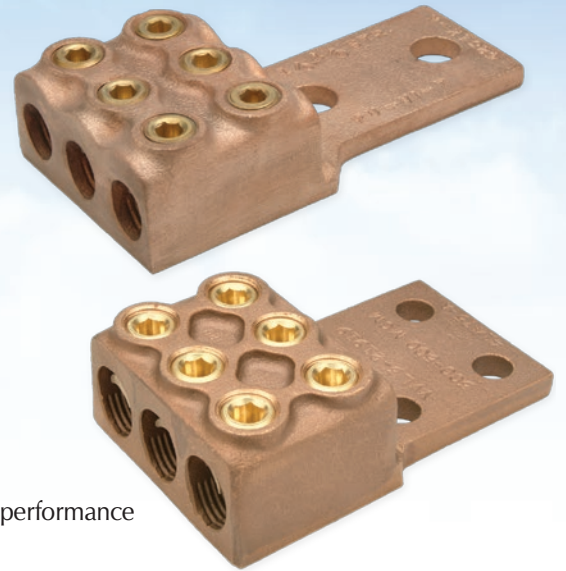
CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VL3-21918	3/0 Str. - 350 kcmil	4.31	2.88	3.00	1.38	3.13	.31	1/2	3/8
VL3-21919	300 - 500 kcmil	4.44	3.50	3.00	1.81	3.13	.38		3/8
VL3-21921	500 - 800 kcmil	4.63	4.19	3.00	1.81	3.13	.50		3/8
VL3-21925	700 - 1000 kcmil	5.31	4.63	3.00	2.06	3.25	.50		3/8
VL3-21926	1000 - 1500 kcmil	6.00	6.00	3.50	2.31	3.13	.63		1/2
VL3-21928	1500 - 2000 kcmil	6.13	6.75	4.00	2.69	3.13	.63		1/2



Bronze Vi-Tite Terminal Lugs - Two or Four Hole Tongue with Tandem Set Screws Type VVL3

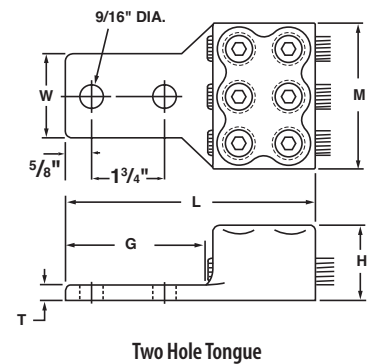
For use with three copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Two and four hole mounting pads allow for maximum surface contact in heavy duty applications
- Tandem set screws provide superior mechanical performance
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number
- For tin plating, suffix catalog number with “-TN”



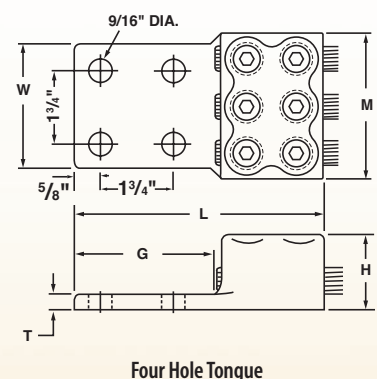
2 Hole Tongue

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VVL3-21766	4 Sol. - 1 Str.	4.75	1.88	1.50	.88	3.13	.25	1/2	3/16
VVL3-21768	2 Str. - 2/0 Str.	4.88	2.19	1.50	1.03	3.13	.25		1/4
VVL3-21774	1/0 Str. - 4/0 Str.	5.25	2.63	1.75	1.28	3.13	.25		1/4
VVL3-21782	3/0 Str. - 350 kcmil	5.50	2.88	1.50	1.38	3.13	.31		3/8
VVL3-21785	300 - 500 kcmil	5.75	3.50	2.38	1.81	3.13	.38		3/8
VVL3-21790	500 - 800 kcmil	6.13	4.19	1.75	1.81	3.13	.50		3/8
VVL3-21795	700 - 1000 kcmil	6.63	4.63	2.13	2.06	3.13	.50		3/8
VVL3-21797	1000 - 1500 kcmil	7.75	6.00	2.75	2.31	3.13	.56		1/2
VVL3-21799	1500 - 2000 kcmil	8.00	6.75	3.00	2.69	3.13	.63		1/2



4 Hole Tongue

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VVL3-21918	3/0 Str. - 350 kcmil	5.50	2.88	3.00	1.38	3.13	.31	1/2	3/8
VVL3-21919	300 - 500 kcmil	5.75	3.50	3.00	1.81	3.13	.38		3/8
VVL3-21921	500 - 800 kcmil	6.13	4.19	3.00	1.81	3.13	.44		3/8
VVL3-21925	700 - 1000 kcmil	6.63	4.63	4.00	2.06	3.13	.50		3/8
VVL3-21926	1000 - 1500 kcmil	7.75	6.00	4.00	2.31	3.13	.50		1/2
VVL3-21928	1500 - 2000 kcmil	8.00	6.75	4.00	2.69	3.13	.63		1/2

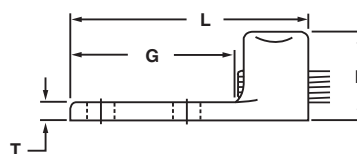
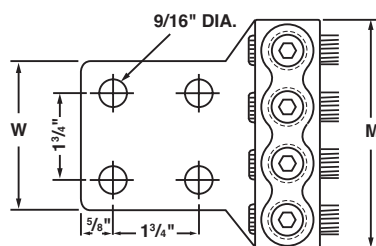
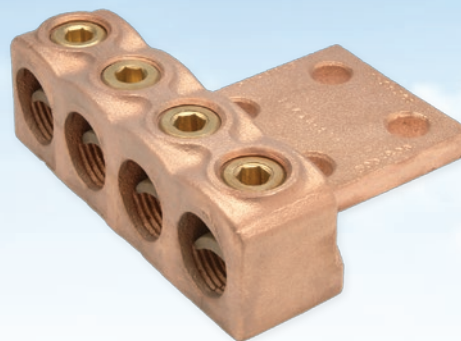


Bronze Vi-Tite Terminal Lugs - Four Hole Tongue

Type VL4

For use with four copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Four hole mounting pads allow for maximum surface contact in heavy duty applications
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number
- For tin plating, suffix catalog number with “-TN”



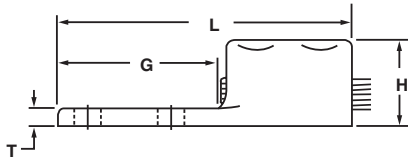
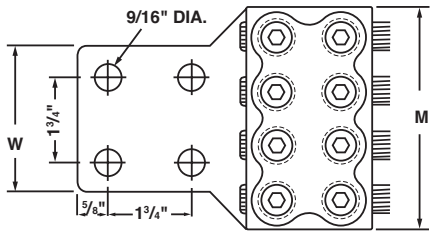
CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VL4-21917/18	2/0 Str. - 350 kcmil	4.31	3.88	3.00	1.38	3.13	.38	1/2	3/8
VL4-21919	300 - 500 kcmil	4.50	4.75	3.50	1.81	3.13	.50		3/8
VL4-21921	500 - 800 kcmil	4.63	5.63	4.00	1.81	3.13	.50		3/8
VL4-21925	700 - 1000 kcmil	5.31	6.25	4.00	2.06	3.25	.50		3/8
VL4-21926	1000 - 1500 kcmil	6.00	8.00	4.50	2.31	3.13	.63		1/2
VL4-21928	1500 - 2000 kcmil	6.13	9.00	5.00	2.69	3.13	.75		1/2

Bronze Vi-Tite Terminal Lugs - Four Hole Tongue with Tandem Set Screws

Type VVL4

For use with four copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Heavy duty terminals used for joining a wide range of copper conductors to equipment pads or bus bars
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Four hole mounting pads allow for maximum surface contact in heavy duty applications
- Tandem set screws provide superior mechanical performance
- Annular serrations in conductor grooves provide improved mechanical performance
- Inspection hole allows for visual confirmation of proper cable insertion
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						MTG. BOLT SIZE	HEX SIZE
		L	M	W	H	G	T		
VVL4-21918	3/0 Str. - 350 kcmil	5.50	3.88	3.00	1.38	3.13	.38	1/2	3/8
VVL4-21919	300 - 500 kcmil	5.75	4.75	3.50	1.81	3.13	.50		3/8
VVL4-21921	500 - 800 kcmil	6.13	5.63	4.00	1.81	3.13	.50		3/8
VVL4-21925	700 - 1000 kcmil	6.63	6.25	4.00	2.06	3.25	.50		3/8
VVL4-21926	1000 - 1500 kcmil	7.75	8.00	4.50	2.31	3.13	.63		1/2
VVL4-21928	1500 - 2000 kcmil	8.00	9.00	5.00	2.69	3.13	.75		1/2

Bronze Vi-Tite Splicer / Reducers

Types VC and VVC

For use when splicing/reducing a wide range of copper conductors

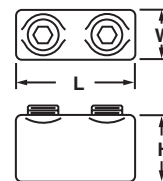
- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Bronze screw and pressure bar provide uniform clamping pressure on conductor
- Annular serrations in conductor grooves provide improved mechanical performance
- Hex head screws can be furnished on request by adding suffix “-HH” to catalog number
- For tin plating, suffix catalog number with “-TN”



Two Screw Type - VC

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			SCREW THREAD SIZE	HEX SIZE
		L	H	W		
VC-26010*	14 Sol. - 8 Str.	1.38	.56	.47	5/16 - 24	5/32
VC-26000	8 Sol. - 4 Str.	1.06	.63	.50	5/16 - 24	5/32
VC-26001	4 Sol. - 1 Str.	1.63	.88	.63	3/8 - 24	3/16
VC-26002	2 Str. - 2/0 Str.	1.88	1.03	.75	1/2 - 20	1/4
VC-26003	1/0 Str. - 4/0 Str.	2.31	1.28	.88	9/16 - 18	1/4
VC-26004	3/0 Str. - 300 kcmil	2.56	1.38	1.00	3/4 - 16	3/8
VC-26005	300 - 500 kcmil	2.88	1.81	1.25	3/4 - 16	3/8
VC-26006	500 - 800 kcmil	3.25	1.81	1.44	7/8 - 14	3/8
VC-26007	700 - 1000 kcmil	3.75	2.06	1.56	7/8 - 14	3/8

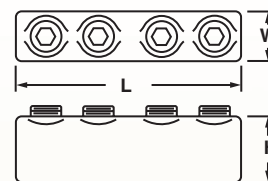
* No saddle



Four Screw Type - VVC

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			SCREW THREAD SIZE	HEX SIZE
		L	H	W		
VVC-26020*	8 Sol. - 4 Str.	1.88	.63	.50	5/16 - 24	5/32
VVC-26021	4 Sol. - 1 Str.	3.00	.88	.63	3/8 - 24	3/16
VVC-26022	2 Str. - 2/0 Str.	3.50	1.03	.75	1/2 - 20	1/4
VVC-26023	1/0 Str. - 4/0 Str.	4.38	1.28	.88	9/16 - 18	1/4
VVC-26024	3/0 Str. - 300 kcmil	4.88	1.38	1.00	3/4 - 16	3/8
VVC-26025	300 - 500 kcmil	5.44	1.81	1.25	3/4 - 16	3/8
VVC-26026	500 - 800 kcmil	6.19	1.81	1.44	7/8 - 14	3/8
VVC-26027	700 - 1000 kcmil	7.19	2.06	1.56	7/8 - 14	3/8

* No saddle



Bronze Splicer/Reducers

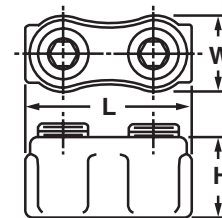
Type PNLC

For use when splicing/reducing a wide range of copper conductors

- Manufactured from high strength copper alloy for maximum conductivity and corrosion resistance
- Plated steel set screws provide a high strength connection
- Annular serrations in conductor grooves provide improved mechanical performance
- Internal cable stop ensures full cable insertion
- Hex head screws can be furnished by suffixing catalog numbers with “-HH”
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			SCREW THREAD SIZE	HEX SIZE
		L	H	W		
PNLC-1/0	8 Sol. - 1/0 Str.	1.63	.84	.72	1/2 - 20	1/4
PNLC-250	6 Sol. - 250 kcmil	2.13	1.06	.97	3/4 - 16	3/8
PNLC-500	4 Sol. - 500 kcmil	3.00	1.47	1.38	15/16 - 16	3/8
PNLC-1000	500 - 1000 kcmil	3.75	2.00	1.75	1 3/8 - 14	3/8

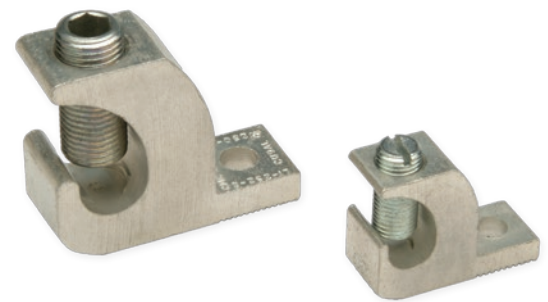


Aluminum Lay-In Lugs

Type LI

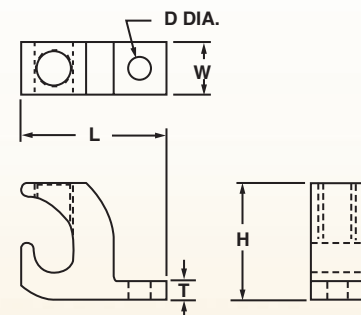
One hole, side entrance for copper and aluminum conductors

- Body is manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- Side entrance design permits the quick installation of one continuous conductor as a jumper to multiple locations without a break in the conductor
- For added protection, apply oxide inhibitor to cable before installation



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					MTG. BOLT SIZE	HEX SIZE
		L	W	H	T	D (DIA.)		
LI-50S*	14 - 4	1.06	.38	.78	.15	.22	3/16	Slot
LI-112S*	8 - 1/0	1.50	.59	1.17	.22	.27	1/4	Slot
LI-200S*	6 - 3/0	2.00	.80	1.56	.30	.33	5/16	5/16
LI-252S	6 - 250	2.20	.80	1.70	.30	.33	5/16	5/16

*cULus



Copper Lay-In Lugs

Type LI-CU-DB

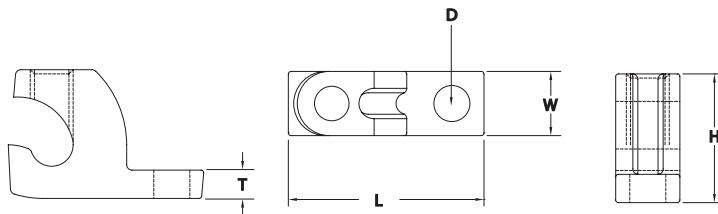
- **Figure 1** is manufactured from high conductivity wrought copper
- **Figure 2** is manufactured from high conductivity cast copper
- Electro-tin plated body and stainless steel set screw ensure minimum contact resistance and protection against corrosion
- Range taking - accommodates copper conductor sizes 4 Str. - 14 Sol.
- Side entrance design permits the quick installation of a continuous conductor run to multiple locations
- Suitable for direct burial in earth or embedment in concrete
- Excellent choice for use on grounding conductors with photovoltaic modules and mounting systems
- **Figure 1** is listed to and complies with the following standards: UL 467 and CSA C22.2 No.41-13
- **Figure 2** is listed to and complies with the following standards: UL 467, CSA C22.2 No.41-13, UL 2703, and ULC C1703



Fig. 1



Fig. 2



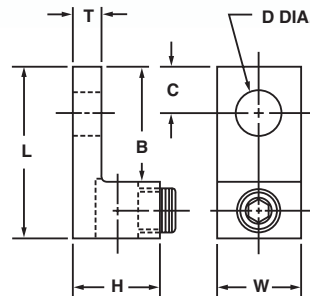
CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					MTG. BOLT SIZE
			L	W	H	T	D (DIA.)	
LI-50S-CU-DB	1	4 Str. - 14 Sol.	1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-UP	1		1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-UP-HH	1		1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-CG*	2		1.14	.38	.75	.17	.21	3/16
LI-50S-CU-DB-C	2		1.14	.38	.75	.17	.21	3/16
LI-50S-CU-DB-CM6	2		1.14	.38	.75	.17	.26	6 mm or 1/4

*Provided with green plated set screw
 - Suffix "-UP" indicates unplated
 - Suffix "-HH" indicates hex head set screw

Aluminum Dual Rated Lugs - One Hole Tongue Type LA

For use with one copper or aluminum conductor

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- Connectors are rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)							MTG. BOLT SIZE	HEX SIZE
		L	W	H	T	B	C	D (DIA.)		
LA-6	14 Str. - 4 Str.	1.06	.50	.50	.09	.69	.25	.27	1/4	Slot
LA-2	14 Str. - 2 Str.	1.16	.50	.55	.11	.69	.31	.27	1/4	Slot
LA2-516*	14 Str. - 2 Str.	1.16	.50	.56	.10	.69	.31	.33	5/16	Slot
LA-0	14 Str. - 1/0 Str.	1.47	.63	.78	.19	.84	.42	.27	1/4	Slot
LA-2/0	14 Str. - 2/0 Str.	1.47	.63	.80	.19	.84	.44	.27	1/4	3/16
LA-250	6 Str. - 250 kcmil	2.00	1.00	1.13	.25	1.00	.45	.33	5/16	3/8
LA-350	6 Str. - 350 kcmil	2.25	1.13	1.25	.25	1.13	.50	.41	3/8	3/8
LA-500	4 Str. - 500 kcmil	2.81	1.25	1.56	.31	1.56	.88	.41	3/8	3/8
LA-600	2 Str. - 600 kcmil	3.13	1.50	1.56	.44	1.81	.88	.53	3/8	3/8
LA-800	300 - 800 kcmil	3.50	1.75	1.94	.50	1.88	.81	.66	5/8	1/2
LA-1000+	500 - 1000 kcmil	3.50	1.75	1.94	.50	1.88	.81	.66	5/8	1/2

* UL listed only

+ UL listed and CSA certified

Aluminum Dual Rated Lugs - Two Hole Tongue Type LA-2

For use with one copper or aluminum conductor

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- Two hole mounting pad allows for maximum surface contact in heavy duty applications
- Connectors are rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations



486A-486B
LISTED
AL9CU

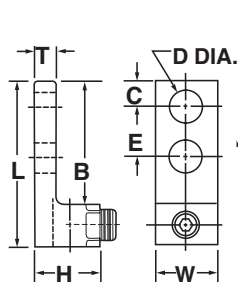


FIG. 1

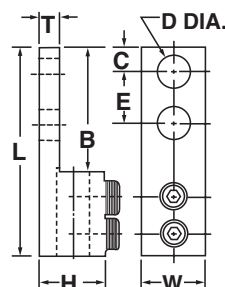


FIG. 2

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)								MTG. BOLT SIZE	HEX SIZE
			L	W	H	T	B	C	D (DIA.)	E		
LA-350-2	1	6 Str. - 350 kcmil	4.19	1.13	1.25	.25	3.06	.63	.56	1.75	1/2	3/8
LA-600-2	1	2 Str. - 600 kcmil	4.69	1.50	1.56	.44	3.31	.63	.56	1.75		3/8
LA-800-2	2	350 - 800 kcmil	6.19	1.75	1.88	.56	3.44	.63	.56	1.75		1/2
LA-1000-2	2	500 - 1000 kcmil	6.19	1.75	1.88	.56	3.44	.63	.56	1.75		1/2

Aluminum Dual Rated Lugs - Two Hole Tongue with Tandem Set Screws

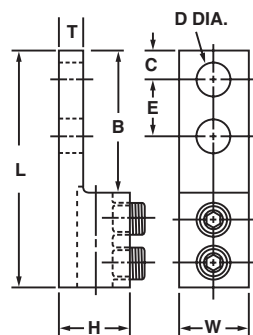
Type LLA2

For use with one copper or aluminum conductor

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- Two hole mounting pad allows for maximum surface contact in heavy duty applications
- Tandem set screws provide superior mechanical performance
- Connectors are rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations



486A-486B
LISTED
AL9CU



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)									MTG. BOLT SIZE	HEX SIZE
		L	W	H	T	B	C	D (DIA.)	E			
LLA2-500-S1	4/0 Str. - 500 kcmil	5.50	1.38	1.50	.38	3.25	.63	.56	1.75	1/2	3/8	
LLA2-750-S1	300 - 800 kcmil	6.19	1.45	1.88	.56	3.44	.63	.56	1.75		1/2	

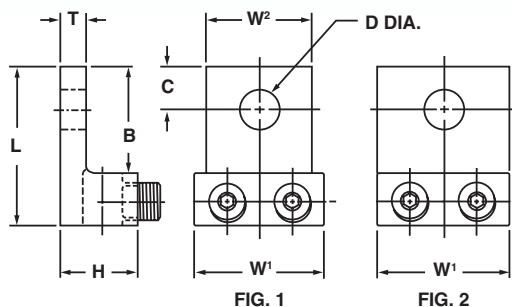
Aluminum Dual Rated Lugs - One Hole Tongue Type L2A

For use with two copper or aluminum conductors

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and corrosion protection
- Connectors are rated for 600 V, 90° C applications
- The use of oxide inhibitor is recommended for all aluminum terminations



486A-486B
LISTED
AL9CU



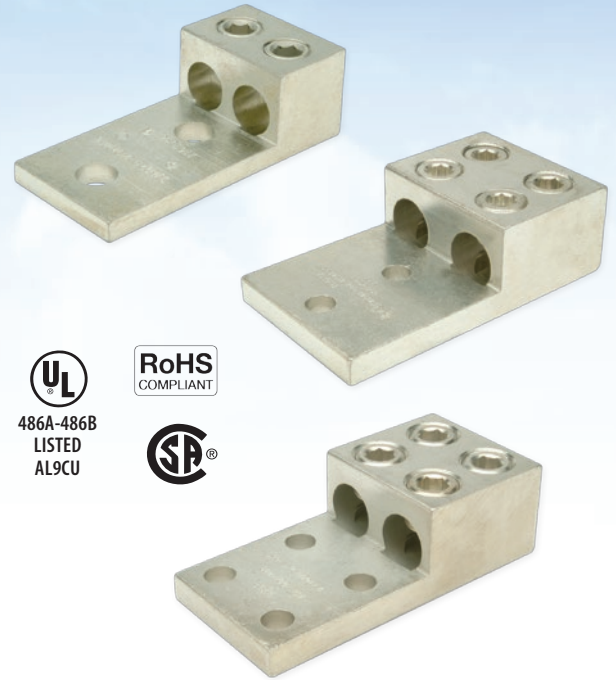
CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)								MTG. BOLT SIZE	HEX SIZE
			L	W ¹	W ²	H	T	B	C	D (DIA.)		
L2A-0	2	14 Str. - 1/0 Str.	1.47	1.13	-	.78	.18	.84	.44	.27	1/4	SLOT
L2A-2/0	2	14 Str. - 2/0 Str.	1.47	1.25	-	.78	.18	.84	.42	.27	1/4	SLOT
L2A-250	2	6 Str. - 250 kcmil	2.56	1.64	-	1.18	.25	1.56	.88	.41	3/8	5/16
L2A-350	1	6 Str. - 350 kcmil	2.88	1.94	1.75	1.25	.25	1.75	.56	.53	1/2	3/8
L2A-500	1	4 Str. - 500 kcmil	3.13	2.38	1.98	1.56	.44	1.75	.63	.53	1/2	3/8
L2A-600	1	2 Str. - 600 kcmil	3.13	2.38	1.98	1.56	.44	1.75	.63	.53	1/2	1/2
L2A-800	2	350 - 800 kcmil	3.50	3.50	-	1.94	.50	1.88	.88	.66	5/8	1/2
L2A-1000	2	500 - 1000 kcmil	3.50	3.50	-	1.94	.50	1.88	.88	.66	5/8	1/2

Aluminum Dual Rated Lugs - Two or Four Hole Tongue

Type L2A

For use with two copper or aluminum conductors

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- Two and four hole mounting pad allows for maximum surface contact in heavy duty applications
- Larger connector sizes utilize tandem set screws that provide superior mechanical performance*
- Connectors are rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations



486A-486B
LISTED
AL9CU

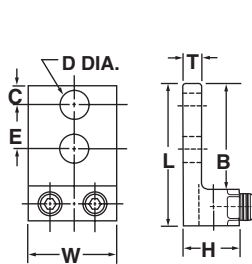


FIG. 1

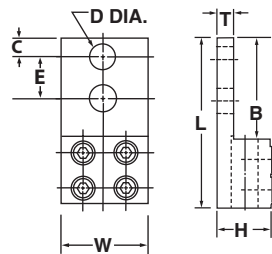


FIG. 2

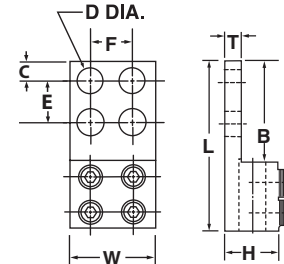


FIG. 3

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)									MTG. BOLT SIZE	HEX SIZE
			L	W	H	T	B	C	D (DIA.)	E	F		
L2A-350-2	1	6 Str. - 350 kcmil	4.19	1.94	1.25	.25	3.06	.63	.56	1.75	-	1/2	3/8
L2A-600-2	1	2 Str. - 600 kcmil	4.69	2.44	1.56	.44	3.31	.63	.56	1.75	-		3/8
*L2A-800-2	2	300 - 800 kcmil	6.19	3.50	1.88	.56	3.44	.63	.56	1.75	-		1/2
*L2A-800-4	3		6.19	3.50	1.88	.56	3.44	.63	.56	1.75	1.75		1/2
*L2A-1000-2	2	500 - 1000 kcmil	6.19	3.50	1.88	.56	3.44	.63	.56	1.75	-		1/2
*L2A-1000-4	3		6.19	3.50	1.88	.56	3.44	.63	.56	1.75	1.75		1/2

Aluminum Dual Rated Lugs - Two, Four or Six Hole Tongue Type L3A

For use with three copper or aluminum conductors

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- Six hole pad allows for two or four bolt mounting configurations which provide maximum surface contact in heavy duty applications
- Larger connector sizes utilize tandem set screws that provide superior mechanical performance*
- Connectors are rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations

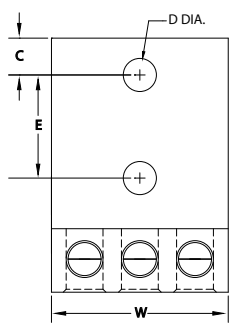


FIG. 1

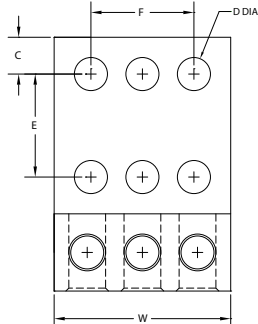
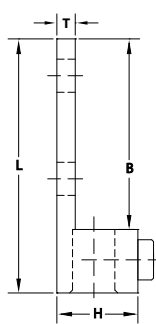


FIG. 2

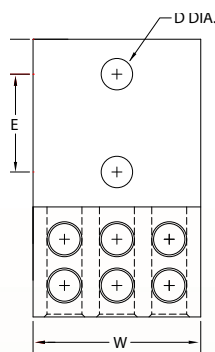
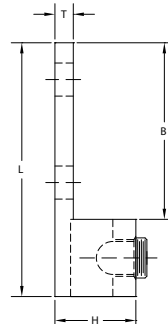


FIG. 3

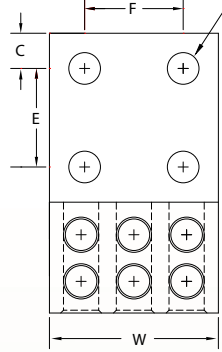
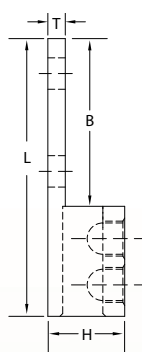
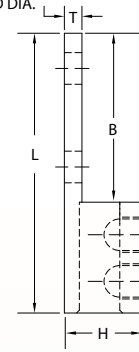


FIG. 4



CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)									MTG. BOLT SIZE	HEX SIZE
			L	W	H	T	B	C	D (DIA.)	E	F		
L3A-0-2*	1	14 Str. - 1/0 Str.	2.91	2.00	.87	.25	2.15	.34	.44	1.00	-	3/8	Slotted
L3A-250-2/4	2	6 Str. - 250 kcmil	4.00	3.00	1.19	.31	3.00	.63	.56	1.75	1.75	1/2	5/16
L3A-350-2/4	2	6 Str. - 350 kcmil	4.19	3.00	1.13	.25	3.06	.63	.56	1.75	1.75	1/2	3/8
L3A-600-2/4	2	2 Str. - 600 kcmil	4.63	3.75	1.56	.44	3.38	.63	.56	1.75	1.75	1/2	3/8
*L3A-800-2	3	300 - 800 kcmil	6.19	4.25	1.88	.56	3.44	.63	.56	1.75	-	1/2	1/2
*L3A-800-4	4		6.19	3.50	1.88	.56	3.44	.63	.56	1.75	1.75	1/2	1/2

*cULus listed

Aluminum Dual Rated Lugs - Four Hole Tongue Types LA4M4 and LA4D4

For use with four copper or aluminum conductors

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- Four hole mounting pad allows for maximum surface contact in heavy duty applications
- Larger connector sizes utilize tandem set screws that provide superior mechanical performance*
- Connectors are rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations

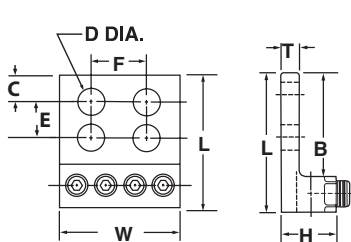


FIG. 1

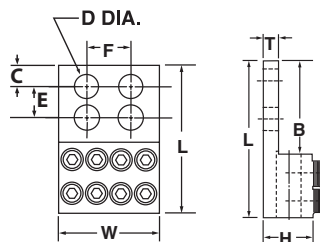


FIG. 2



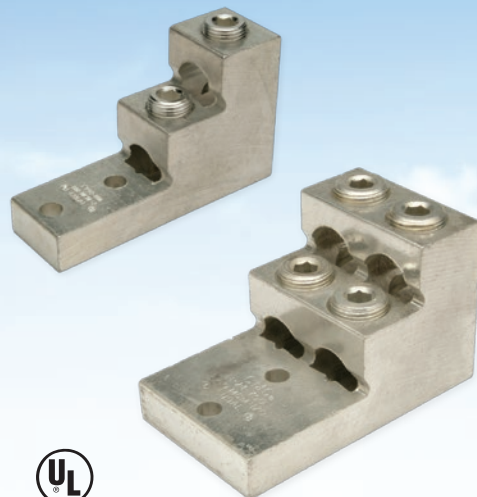
CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)								MTG. BOLT SIZE	HEX SIZE	
			L	W	H	T	B	C	D (DIA.)	E			F
LA4M4-250	1	6 Str. - 250 kcmil	4.00	4.05	1.19	.31	3.00	.63	.56	1.75	1.75	1/2	5/16
LA4M4-350	1	6 Str. - 350 kcmil	4.50	4.72	1.38	.31	3.25						3/8
*LA4D4-600	2	2 Str. - 600 kcmil	5.50	5.33	1.50	.38	3.25						3/8
*LA4D4-800	2	350 - 800 kcmil	6.19	7.16	1.88	.56	3.44						1/2

Aluminum Panelboard Lugs

Type PB

For use with two, three or four copper or aluminum conductors

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- Stack design allows for easy installation where space is limited
- Connectors are rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations



486A-486B
LISTED
AL9CU



RoHS
COMPLIANT

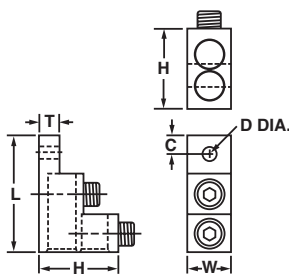
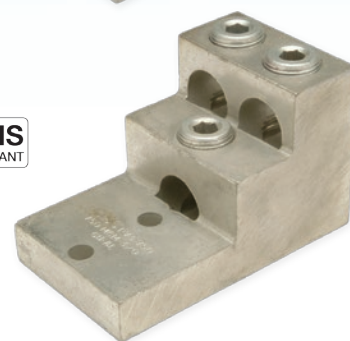


FIG. 1

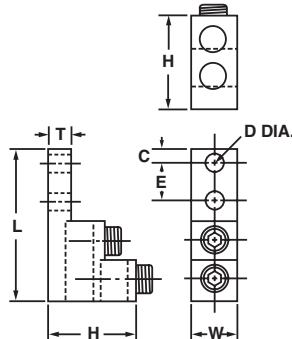


FIG. 2

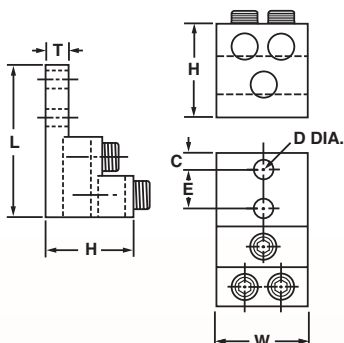


FIG. 3

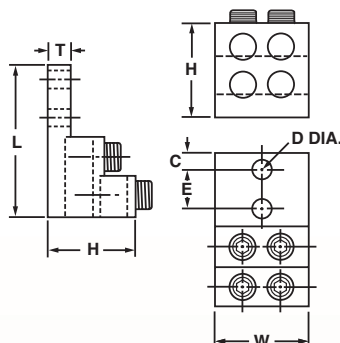


FIG. 4

CATALOG NUMBER	FIG. NO.	NUMBER OF CONDUCTORS	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)							MTG. BOLT SIZE	HEX SIZE
				L	W	H	T	C	D (DIA.)	E		
PB2-300	1	2	6 Str. - 300 kcmil	3.00	1.00	2.00	.31	.47	.33	-	5/16	5/16
PB2-600	2	2	2 Str. - 600 kcmil	4.91	1.50	3.00	.75	.38	.41	1.38	3/8	3/8
PB2-750	2	2	1/0 Str. - 750 kcmil	4.91	1.56	3.00	.75	.38	.41	1.38	3/8	3/8
PB3-600	3	3	2 Str. - 600 kcmil	4.91	2.50	3.00	.75	.38	.41	1.38	3/8	3/8
PB3-750	3	3	1/0 Str. - 750 kcmil	4.91	2.84	3.00	.75	.38	.41	1.38	3/8	3/8
PB4-600	4	4	2 Str. - 600 kcmil	4.91	2.50	3.00	.75	.38	.41	1.38	3/8	3/8
PB4-750	4	4	1/0 Str. - 750 kcmil	4.91	2.84	3.00	.75	.38	.41	1.38	3/8	3/8

Transformer Lug Kits

Type LASK

- Kits contain Type LA aluminum dual rated lugs, steel nuts and bolts
- Available in four sizes and can be used with any dry-type transformer
- Plated steel hardware for corrosion resistance
- Nuts have special captive conical pressure washers that maintain bolted contact pressure when properly torqued
- Each lug is clearly marked “AL9CU”
- Rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations



CATALOG NUMBER	TRANSFORMER KVA SIZE	KIT CONTENTS				
		QTY.	LUGS	CONDUCTOR RANGE	QTY.	HARDWARE
LASK-1	15-37 1/2 1-Phase 15-45 3-Phase	8	LA-2	14 Str. - 2 Str.	8	1/4 - 20 x 3/4" Bolts
		4	LA-250	6 Str. - 250 kcmil	8	1/4 - 20 Flange Nuts
LASK-2	50-75 1-Phase 75-112 1/2 3-Phase	12	LA-250	6 Str. - 250 kcmil	8	1/4 - 20 x 3/4" Bolts
		8			8	1/4 - 20 x 1 3/4" Bolts
		16			16	1/4 - 20 Flange Nuts
LASK-3	100-167 1-Phase 150-300 3-Phase	3	LA-250	6 Str. - 250 kcmil	3	1/4 - 20 x 3/4" Bolts
		22	LA-600	2 Str. - 600 kcmil	16	1/4 - 20 Flange Nuts
		16			16	3/8 - 16 x 2" Bolts 3/8 - 16 Flange Nuts
LASK-4	500 3-Phase	29	LA-600	2 Str. - 600 kcmil	18 18	3/8 - 16 x 2" Bolts 3/8 - 16 Flange Nuts

Aluminum Splicer / Reducers

Type SR

For use when splicing/reducing a wide range of copper and aluminum conductors

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protect against corrosion
- Plated steel set screws provide a high strength connection
- Internal cable stop or inspection window ensures full cable insertion
- Rated for 600 V, 90°C applications
- The use of oxide inhibitor is recommended for all aluminum terminations



486A-486B
LISTED
AL9CU

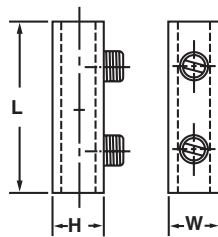


FIG. 1

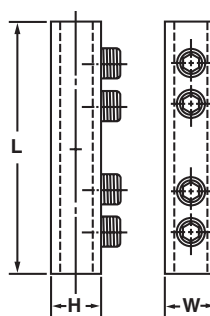


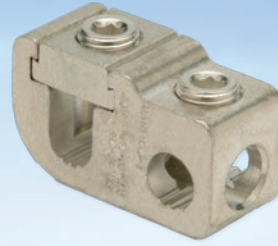
FIG. 2

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			H	W	L	
SR-2	1	14 Str. - 2 Str.	.56	.50	1.38	SLOT
SR-0	1	14 Str. - 1/0 Str.	.75	.75	1.91	3/16
SR-250	2	6 Str. - 250 kcmil	1.13	1.00	3.94	5/16
SR-250-2	1	6 Str. - 250 kcmil	1.13	1.00	1.94	5/16
SR-350	2	6 Str. - 350 kcmil	1.19	1.13	4.19	5/16
SR-350-2	1	6 Str. - 350 kcmil	1.19	1.13	2.63	5/16
SR-500	2	2 Str. - 500 kcmil	1.50	1.38	5.00	3/8
SR-750	2	250 - 750 kcmil	1.75	1.63	6.25	3/8

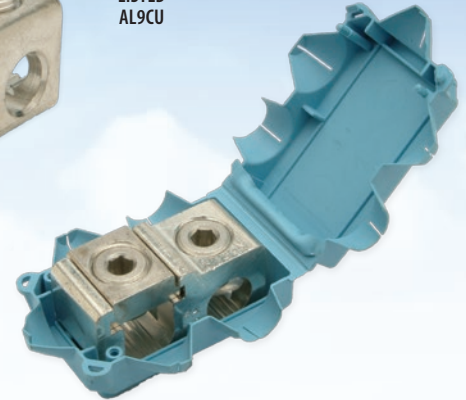
Aluminum Parallel T-Tap Connectors

Type GPT

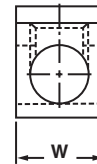
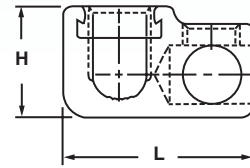
- Manufactured from high strength aluminum alloy extrusion
- Dual rated for copper and aluminum conductors
- Design permits parallel or 90° angle tap connections
- Lay-in feature allows for easy installation on main conductor
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion when used with copper wire
- The use of oxide inhibitor is recommended for all aluminum terminations



486A-486B
LISTED
AL9CU



CATALOG NUMBER	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)			HEX SIZE	
	MAIN	TAP	H	W	L	MAIN	TAP
GPT-2	12 Sol. - 2 Str.	14 Sol. - 4 Str. CU 12 Sol. - 4 Str. AL	.88	.63	1.39	SLOT	SLOT
GPT-1/0	2 Str. - 1/0 Str.	14 Sol. - 1/0 Str. CU 12 Sol. - 1/0 Str. AL	1.00	.75	1.75	3/16	3/16
GPT-250-0	1/0 Str. - 250 kcmil	14 Sol. - 1/0 Str. CU 12 Sol. - 1/0 Str. AL	1.31	1.06	2.03	5/16	3/16
GPT-250	1/0 Str. - 250 kcmil	6 Str. - 250 kcmil	1.31	1.06	2.28	5/16	5/16
GPT-350	4/0 Str. - 350 kcmil	6 Str. - 350 kcmil	1.44	1.25	2.56	5/16	5/16
GPT-500	350 - 500 kcmil	2 Str. - 500 kcmil	1.75	1.38	3.13	3/8	3/8
GPT-750	500 - 750 kcmil	2 Str. - 500 kcmil	2.00	1.50	3.38	3/8	3/8



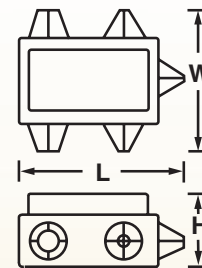
Insulating Covers for GPT Connectors

Type GTC

- Manufactured from 105°C rated material, 600 volt maximum
- Snap-lock feature eliminates the need for taping reducing labor time



CATALOG NUMBER	COVER FOR MODEL NUMBER	COVER COLOR	APPROXIMATE DIMENSIONS (IN.)		
			H	W	L
GTC-2	GPT-2	Yellow	1.11	1.91	2.22
GTC-1/0	GPT-1/0	Gray	1.25	2.16	2.63
GTC-250	GPT-250	Red	1.63	2.88	3.44
GTC-250	GPT-250-0	Red	1.63	2.88	3.44
GTC-350	GPT-350	Yellow	1.75	3.19	3.75
GTC-500	GPT-500	Blue	2.09	3.31	4.38
GTC-750	GPT-750	Orange	2.34	3.44	4.63

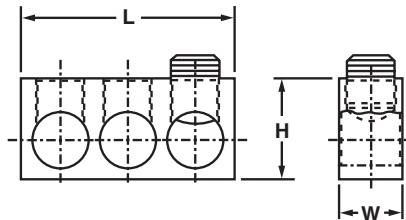


Aluminum Street Light Connector with Insulating Cover

Type SLK

For any combination of copper or aluminum conductors

- Manufactured from high strength aluminum alloy extrusion
- Electro-tin plated to ensure minimum contact resistance and protection against corrosion
- 105°C rated black Plastisol insulating cover is provided with connector



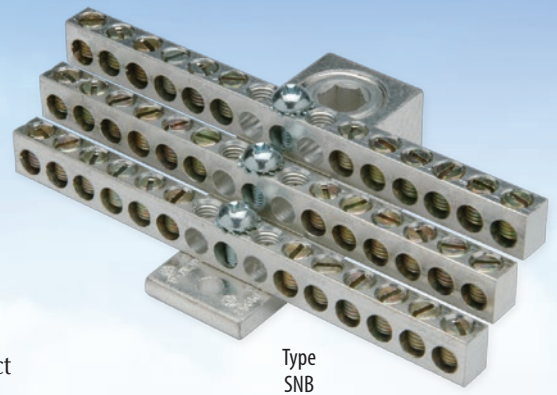
CATALOG NUMBER	CONDUCTOR RANGE	NUMBER OF CONDUCTORS	APPROXIMATE DIMENSIONS (IN.)			HEX SIZE
			H	W	L	
SLK-2/0	14 Str. - 2/0 Str.	3	.74	.57	1.69	3/16

Aluminum Stacked Neutral Bars

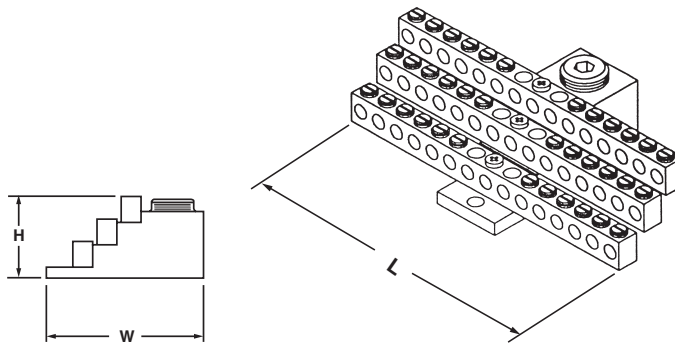
Type SNB

For aluminum or copper conductors

- Assembly is suitable for grounding applications
- Preassembled, stacked neutral bars provide a compact design offering range taking flexibility
- Electro-tin plated neutral bars and stacking lugs provide low contact resistance suitable for bimetallic applications
- The stacking lugs are UL 486A-486B listed AL9CU
- The neutral bars are UL component recognized
- Available with phenolic base, catalog number R-16



Type
SNB

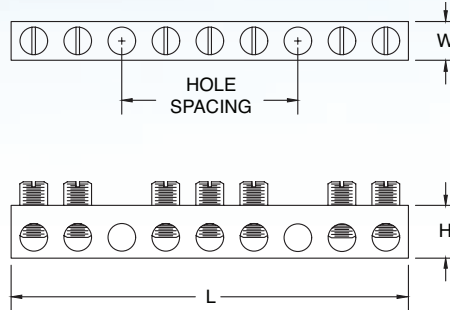
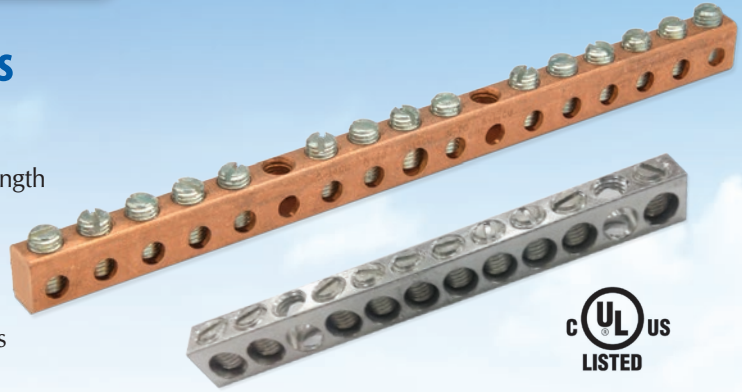


R-16

CATALOG NUMBER	CONDUCTOR RANGE (AWG)		NUMBER OF TAPS	APPROXIMATE DIMENSIONS (IN.)		
	MAIN	TAP		H	W	L
SNB350-12	6 Str. - 350 kcmil	14 Str. - 6 Str.	12	1.53	2.53	4.73
SNB350-24			24			4.73
SNB350-30			30			4.08
SNB350-36			36			4.73
SNB350-42			42			5.31
R-16	Mounting block of general purpose phenolic suitable for mounting any SNB neutral bars			1.00	2.50	2.50

Aluminum and Copper Neutral Bars Types NA and NC

- Aluminum Neutral Bars are manufactured from high strength aluminum alloy
- Copper Neutral Bars are manufactured from high strength copper
- For use in a variety of neutral and grounding applications
- Aluminum Neutral Bars are tin plated
- Screws are made of mild steel and plated
- Available with green chromate Robertson head set screws for visual identification of grounding locations
- Aluminum Neutral Bars are dual rated for copper or aluminum conductors
- Copper Neutral Bars are for copper conductors only
- UL 467 listed



Aluminum Neutral Bars

CATALOG NUMBER	CONDUCTOR RANGE	NUMBER OF CIRCUITS	TOTAL NUMBER OF HOLES	APPROXIMATE DIMENSIONS (IN.)			HOLE SPACING	MOUNTING HOLE POSITION
				L	W	H		
NA-401*	14 - 4	2	3	.95	.31	.44	.31	2
NA-402*		4	5	1.57	.31	.44	.31	3
NA-403*		5	6	1.88	.31	.44	.31	3
NA-404*		6	7	2.25	.31	.44	.31	4
NA-405*		4	6	1.88	.31	.44	.31	1 & 4
NA-406*		5	7	2.25	.31	.44	.31	1 & 7
NA-407*		5	7	2.25	.31	.44	.31	2 & 6
NA-408*		6	8	2.56	.31	.44	.31	4 & 7
NA-409*		7	9	2.87	.31	.44	.31	3 & 7
NA-410*		9	11	3.50	.31	.44	.31	1 & 11
NA-411*		10	12	3.81	.31	.44	.31	1 & 12
NA-412*		12	14	4.43	.31	.44	.31	1 & 14
NA-413*		15	17	5.37	.31	.44	.31	1 & 17
NA-414*		20	22	6.93	.31	.44	.31	1 & 22
NA-415*		190	190	60.00	.31	.44	.31	-
NA-416	14 - 2	10	12	4.12	.38	.50	.34	3 & 11
NA-417	14 - 2/0	2	3	1.75	.56	.75	.60	2
NA-418		3	5	2.95	.56	.75	.60	2 & 4
NA-419		6	8	4.75	.56	.75	.60	1 & 8

* Suffix catalog number with "-G" for green chromate Robertson head set screw

Copper Neutral Bars

CATALOG NUMBER	CONDUCTOR RANGE	NUMBER OF CIRCUITS	TOTAL NUMBER OF HOLES	APPROXIMATE DIMENSIONS (IN.)			HOLE SPACING	MOUNTING HOLE POSITION
				L	W	H		
NC-420*	14 - 4	4	6	1.94	.31	.44	.31	1 & 6
NC-421*		5	7	2.25	.31	.44	.31	1 & 7
NC-422*		6	8	2.56	.31	.44	.31	1 & 8
NC-423*		12	14	4.43	.31	.44	.31	1 & 14
NC-424*		13	15	4.74	.31	.44	.31	3 & 13
NC-425*		13	15	4.74	.31	.44	.31	6 & 11
NC-426*		190	190	60.00	.31	.44	.31	-
NC-427	14 - 2	3	5	2.00	.38	.50	.40	1 & 5
NC-428		6	8	3.25	.38	.50	.40	2 & 7

* Suffix catalog number with "-G" for green chromate Robertson head set screw





Construction

Utilities

Power Transmission

Industrial

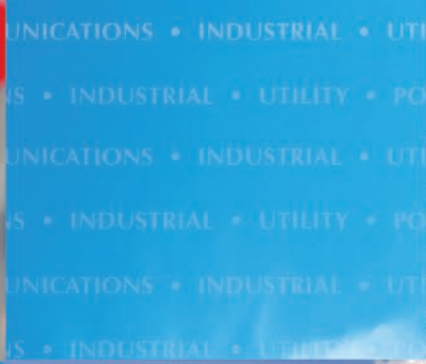
Telecom

Renewable Energy

Aerospace

Rail Systems

MRO



INSULATION PIERCING



Insulation Piercing Connectors

Type IPC

- Used for tap or splice applications
- **Dual rated for insulated copper and aluminum wire**
- For outdoor or indoor installation on energized conductor (tap must not be under load)
- Exclusive RED “Turbo Spacer” keeps tap side open while main conductor is being tightened
- Easy to install - captive hardware allows for single wrench installation, no special tools required
- Suitable for solid and/or stranded conductors
- Double shear-head bolts ensure proper torquing every time
- Connections are sealed by an integral rubber grommet
- Installations are watertight and corrosion free
- Totally insulated connectors eliminate need for tape or covers
- No contact at any point during installation with a live part
- Rated for 600 V, 90° C applications



Meets ANSI C119.4 Requirements

CATALOG NUMBER	CONDUCTOR RANGE		CURRENT RATING (AMPS)		APPROXIMATE DIMENSIONS (IN.)			TORQUE (INCH-LBS)	BOLT HEAD SIZE (IN.)	NUMBER OF BOLTS
	MAIN	TAP	COPPER	ALUMINUM	H	W	L			
IPC-2/0-10*	2/0-4	10-14	55	40	3.60	1.70	2.70	80	1/2	1
IPC-750-10*	750-3/0	10-14	55	40	4.30	2.40	2.80	80	1/2	1
IPC-1/0-2	1/0-8	2-10	190	150	3.70	2.00	3.00	80	1/2	1
IPC-1/0-1/0	1/0-8	1/0-8	190	150	3.70	2.00	3.00	125	1/2	1
IPC-4/0-2*	4/0-3	2-10	190	150	3.90	1.70	2.70	125	1/2	1
IPC-4/0-2/0	4/0-2	2/0-6	300	235	4.30	2.40	3.20	160	1/2	1
IPC-4/0-4/0	4/0-2	4/0-4	405	315	4.40	2.40	3.20	160	1/2	1
IPC-250-4/0	250-1	4/0-4	405	315	3.50	2.20	2.60	160	1/2	1
IPC-350-350	350-1/0	350-1/0	570	445	5.40	3.10	5.00	330	5/8	2
IPC-500-4/0	500-2/0	4/0-4	405	315	5.40	3.10	5.00	330	5/8	2
IPC-500-350	500-4/0	350-1/0	570	445	5.40	3.00	5.00	330	5/8	2
IPC-750-500	750-250	500-250	700	545	5.60	3.60	5.70	330	5/8	2

*Cannot be used as a splice

Connectors are not approved for submersible applications

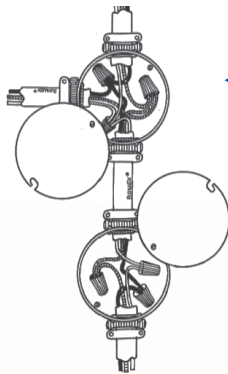
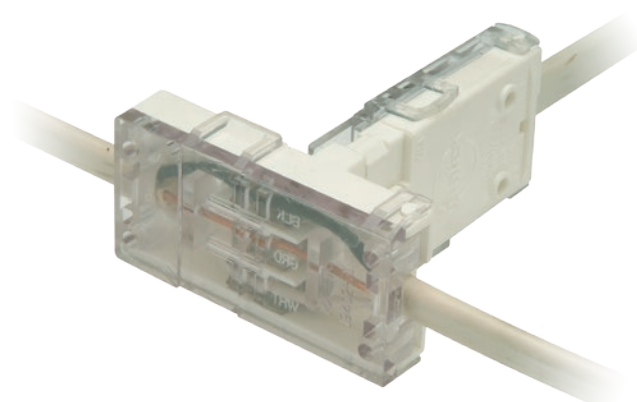
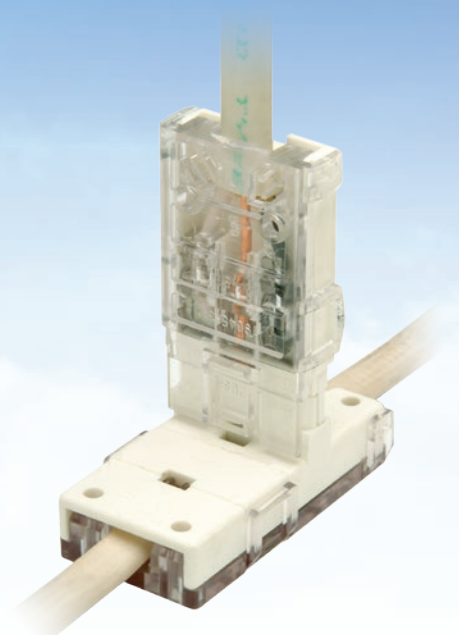
Not recommended for use with extra-flexible, fine stranded cables

Non-Metallic Tap Kit

Type NMTK 142-122

For use on non-metallic building wire

- Taps 14/2 and 12/2 non-metallic sheathed cable with ground
- 300 Volt, 20 Amp rating
- Applications include “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
- Eliminates junction boxes and the need to cut wire reducing installation time
- Compact, rugged design that includes double insulation displacement contacts for maximum conductivity
- Packaged as one kit per bag with installation instructions



◀ Old method for making tap connection



CONNECTING YOUR TOMORROW.™

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ALUMINUM POWER DISTRIBUTION BLOCKS

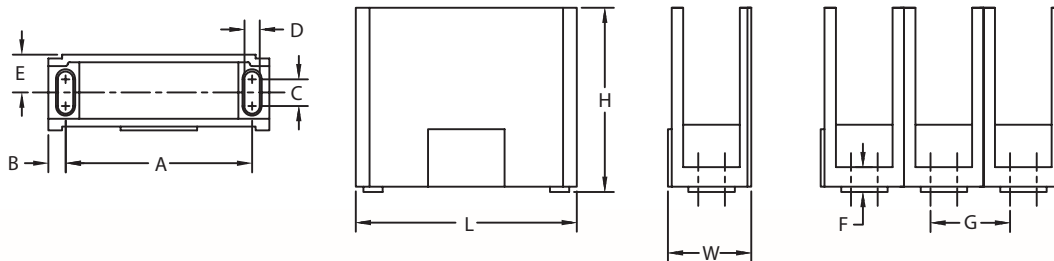


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Aluminum Power Distribution Blocks





















Type APDB

- Tongue and groove design enables blocks to be easily assembled - just slip and lock into place the number of poles needed for a specific job
- All block sizes will interlock with one another allowing for custom configurations
- Modular design eliminates the need to carry 2 pole and 3 pole blocks in stock, reducing inventory costs and improving customer satisfaction
- Aluminum Power Distribution Blocks are manufactured from high strength aluminum alloy and tin-plated for corrosion resistance
- DUAL RATED - UL recognized and CSA certified 600 V and 90°C rated for both aluminum and copper conductors
- Range taking provides tapping flexibility over a broad wire range
- Molded blocks are manufactured from a high strength glass-filled polyester insulating material providing excellent overall electrical properties and flame resistance
- Clear, high impact resistant snap-on covers are available



TYPE APDB / ASRB APPROXIMATE DIMENSIONS (IN.)										
BLOCK SIZE	W	H	L	A	B	C	D	E	F	G (MIN.-MAX.)
Small (S)	1.04	2.34	2.90	2.53	.18	.35	.20	.46	.19	.63 - 1.25
Medium (M)	1.71	2.62	4.00	3.50	.25	.37	.20	.79	.20	1.25 - 1.88
Large (L)	2.90	3.25	5.50	5.00	.25	.50	.27	1.39	.29	2.25 - 3.25

Single Run with Multiple Taps

CATALOG NUMBER	RUN			TAP			AMP RATING PER POLE	BLOCK SIZE*	APPROXIMATE DIMENSIONS (IN.)		
	WIRE RANGE	OPENINGS PER POLE	HEX SIZE	WIRE RANGE	OPENINGS PER POLE	HEX SIZE			L	W	H
APDB-14-2/0-1	2/0 - 14		3/16	4 - 14		Slot	175	S	2.90	1.04	2.34
APDB-14-2/0-2										1.98	
APDB-14-2/0-3										2.92	
APDB-16-2/0-1	2/0 - 14		3/16	4 - 14		Slot	175	S	2.90	1.04	2.34
APDB-16-2/0-2										1.98	
APDB-16-2/0-3										2.92	
APDB-162-350-1	350 kcmil - 6		3/8	4 - 14		Slot	310	M	4.00	1.71	2.62
APDB-162-350-2										3.30	
APDB-162-350-3										4.89	
APDB-18-350-1	350 kcmil - 6		3/8	4 - 14		Slot	310	M	4.00	1.71	2.62
APDB-18-350-2										3.30	
APDB-18-350-3										4.89	
APDB-112-350-1	350 kcmil - 6		3/8	4 - 14		Slot	310	M	4.00	1.71	2.62
APDB-112-350-2										3.30	
APDB-112-350-3										4.89	
APDB-112-500-1	500 kcmil - 4		3/8	4 - 14		Slot	380	M	4.00	1.71	2.62
APDB-112-500-2										3.30	
APDB-112-500-3										4.89	
APDB-14-500-1	500 kcmil - 4		3/8	4/0 - 6		5/16	380	L	5.50	2.90	3.25
APDB-14-500-2										5.69	
APDB-14-500-3										8.48	
APDB-16-350-1	350 kcmil - 6		3/8	2/0 - 14		3/16	310	L	5.50	2.90	3.25
APDB-16-350-2										5.69	
APDB-16-350-3										8.48	
APDB-16-500-1	500 kcmil - 4		3/8	2/0 - 14		3/16	380	L	5.50	2.90	3.25
APDB-16-500-2										5.69	
APDB-16-500-3										8.48	
APDB-16-1000-1	1000 kcmil - 250 kcmil		1/2	2/0 - 14		3/16	545	L	5.50	2.90	3.25
APDB-16-1000-2										5.69	
APDB-16-1000-3										8.48	

NOTE: All wire sizes unless noted otherwise are American Wire Gauge (AWG)

* See chart on page 186 for block dimensions

POWER DISTRIBUTION BLOCK CLEAR INSULATING COVERS	
CATALOG NUMBER	BLOCK SIZE
APDB-CS	Small (S)
APDB-CM	Medium (M)
APDB-CL	Large (L)

Type APDB (continued next page)

ALUMINUM POWER DISTRIBUTION BLOCKS

Type APDB (continued)

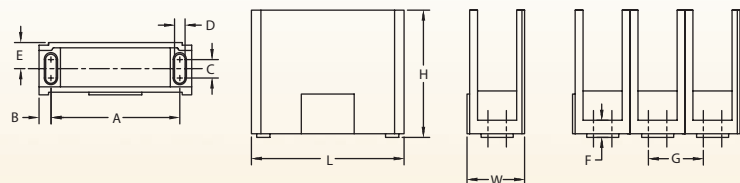
Double Run with Multiple Taps

CATALOG NUMBER	RUN			TAP			AMP RATING PER POLE	BLOCK SIZE*	APPROXIMATE DIMENSIONS (IN.)		
	WIRE RANGE	OPENINGS PER POLE	HEX SIZE	WIRE RANGE	OPENINGS PER POLE	HEX SIZE			L	W	H
APDB-26A-2/0-1	2/0 - 14		3/16	4 - 14		Slot	350	S	2.90	1.04	2.34
APDB-26A-2/0-2										1.98	
APDB-26A-2/0-3										2.92	
APDB-26B-2/0-1	2/0 - 14		3/16	4 - 14		Slot	350	M	4.00	1.71	2.62
APDB-26B-2/0-2										3.30	
APDB-26B-2/0-3										4.89	
APDB-28-2/0-1	2/0 - 14		3/16	4 - 14		Slot	350	M	4.00	1.71	2.62
APDB-28-2/0-2										3.30	
APDB-28-2/0-3										4.89	
APDB-212-2/0-1	2/0 - 14		3/16	4 - 14		Slot	350	M	4.00	1.71	2.62
APDB-212-2/0-2										3.30	
APDB-212-2/0-3										4.89	
APDB-26-2/0-1	2/0 - 14		3/16	2 - 14		Slot	350	M	4.00	1.71	2.62
APDB-26-2/0-2										3.30	
APDB-26-2/0-3										4.89	
APDB-212-350-1	350 kcmil - 6		3/8	4 - 14		Slot	620	L	5.50	2.90	3.25
APDB-212-350-2										5.69	
APDB-212-350-3										8.48	
APDB-26-350-1	350 kcmil - 6		3/8	2/0 - 14		3/16	620	L	5.50	2.90	3.25
APDB-26-350-2										5.69	
APDB-26-350-3										8.48	
APDB-212-500-1	500 kcmil - 4		3/8	4 - 14		Slot	760	L	5.50	2.90	3.25
APDB-212-500-2										5.69	
APDB-212-500-3										8.48	
APDB-26-500-1	500 kcmil - 4		3/8	2/0 - 14		3/16	760	L	5.50	2.90	3.25
APDB-26-500-2										5.69	
APDB-26-500-3										8.48	
APDB-24-500-1	500 kcmil - 4		3/8	4/0 - 6		5/16	760	L	5.50	2.90	3.25
APDB-24-500-2										5.69	
APDB-24-500-3										8.48	

NOTE: All wire sizes unless noted otherwise are American Wire Gauge (AWG)

* See chart on page 186 for block dimensions

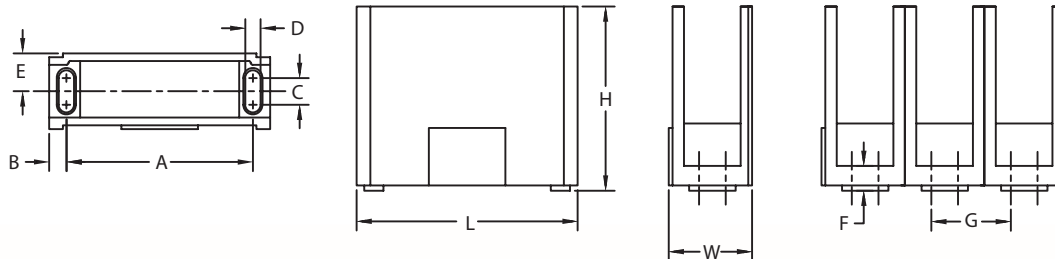
POWER DISTRIBUTION BLOCK CLEAR INSULATING COVERS	
CATALOG NUMBER	BLOCK SIZE
APDB-CS	Small (S)
APDB-CM	Medium (M)
APDB-CL	Large (L)



Aluminum Splicer/Reducer Blocks

Type ASRB

















- Tongue and groove design enables blocks to be easily assembled - just slip and lock into place the number of poles needed for a specific job
- All block sizes will interlock with one another allowing for custom configurations
- Modular design eliminates the need to carry 2 and 3 pole blocks in stock, reducing inventory costs and improving customer satisfaction
- Blocks are manufactured from high strength aluminum alloy and tin plated for corrosion resistance
- DUAL RATED - UL recognized and CSA certified 600 V and 90°C rated for both aluminum and copper conductors
- Wide wire ranges provide the flexibility to use the connectors as an in-line splice or to reduce conductor size
- Molded blocks are manufactured from a high strength glass-filled polyester insulating material providing excellent overall electrical properties and flame resistance
- Clear, high impact resistant covers are available



TYPE APDB / ASRB APPROXIMATE DIMENSIONS (IN.)										
BLOCK SIZE	W	H	L	A	B	C	D	E	F	G (MIN.-MAX.)
Small (S)	1.04	2.34	2.90	2.53	.18	.35	.20	.46	.19	.63 - 1.25
Medium (M)	1.71	2.62	4.00	3.50	.25	.37	.20	.79	.20	1.25 - 1.88
Large (L)	2.90	3.25	5.50	5.00	.25	.50	.27	1.39	.29	2.25 - 3.25

ALUMINUM POWER DISTRIBUTION BLOCKS

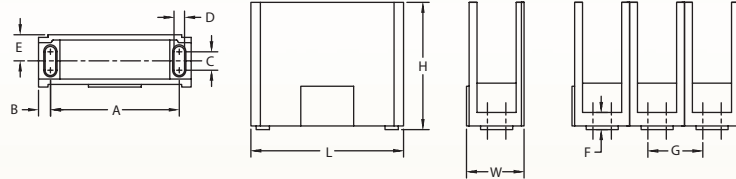
Type ASRB (continued)

CATALOG NUMBER	RUN			TAP			AMP RATING PER POLE	BLOCK SIZE*	APPROXIMATE DIMENSIONS (IN.)		
	WIRE RANGE	OPENINGS PER POLE	HEX SIZE	WIRE RANGE	OPENINGS PER POLE	HEX SIZE			L	W	H
ASRB-11-2-1	2 - 14		Slot	2 - 14		Slot	115	S	2.90	1.04	2.34
ASRB-11-2-2									1.98		
ASRB-11-2-3									2.92		
ASRB-11-2/0-1	2/0 - 14		3/16	2/0 - 14		3/16	175	S	2.90	1.04	2.34
ASRB-11-2/0-2									1.98		
ASRB-11-2/0-3									2.92		
ASRB-11-250-1	250 kcmil - 6		5/16	250 kcmil - 6		5/16	310	M	4.00	1.71	2.62
ASRB-11-250-2									3.30		
ASRB-11-250-3									4.89		
ASRB-11-350-1	350 kcmil - 6		3/8	350 kcmil - 6		3/8	310	M	4.00	1.71	2.62
ASRB-11-350-2									3.30		
ASRB-11-350-3									4.89		
ASRB-11-500-1	500 kcmil - 4		3/8	500 kcmil - 4		3/8	380	M	4.00	1.71	2.62
ASRB-11-500-2									3.30		
ASRB-11-500-3									4.89		
ASRB-22-2/0-1	2/0 - 14		3/16	2/0 - 14		3/16	350	S	2.90	1.04	3.25
ASRB-22-2/0-2									1.98		
ASRB-22-2/0-3									2.92		
ASRB-22-350-1	350 kcmil - 6		3/8	350 kcmil - 6		3/8	620	L	5.50	2.90	3.25
ASRB-22-350-2									5.69		
ASRB-22-350-3									8.48		
ASRB-22-500-1	500 kcmil - 4		3/8	500 kcmil - 4		3/8	760	L	5.50	2.90	3.25
ASRB-22-500-2									5.69		
ASRB-22-500-3									8.48		

NOTE: All wire sizes unless noted otherwise are American Wire Gauge (AWG)

* See chart on page 189 for block dimensions

ALUMINUM SPLICER/ REDUCER BLOCK CLEAR INSULATING COVERS	
CATALOG NUMBER	BLOCK SIZE
APDB-CS	Small (S)
APDB-CM	Medium (M)
APDB-CL	Large (L)







CONNECTING YOUR TOMORROW.™

Construction

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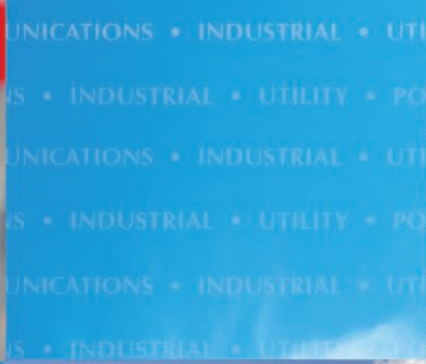
Telecom

Renewable Energy

Aerospace

Rail Systems

MRO



TERMINAL BLOCKS

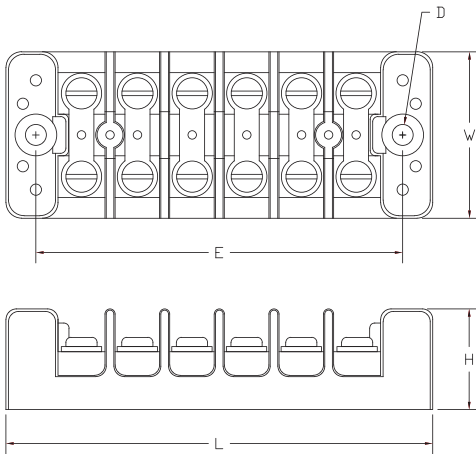



PENNUION™
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Heavy-Duty Thermoplastic Terminal Blocks

Type 6000

- For use in general industrial equipment, switchboards, and panelboards
- Jumper bars are stamped from hard rolled copper and plated to prevent corrosion
- Blocks are molded from glass reinforced thermoplastic resin
- No. 10-32 washer head screws are tin plated
- Wide slot opening allows for either soldered or solderless terminal lugs
- Tapped holes at two corners allow for cover to be attached
- Ratings:
 - 75 amp with #4 max crimp lug 600V 75°C
 - 45 amp with #8 max wire 600V 75°C
- White vinyl marking strips are furnished as standard



CATALOG NUMBER	NUMBER OF WIRES PER SIDE	APPROXIMATE DIMENSIONS (IN.)				
		W	H	L	E	D
6002	2	2.00	1.19	2.50	1.81	.23
6004	4			3.81	3.13	
6006	6			5.13	4.38	
6008	8			6.44	5.75	
6012	12			9.06	8.38	

Ordering Information:

White vinyl cover available by suffixing catalog number with "-SVS"

Hard rolled copper short circuiting strip and two shorting pins available by suffixing catalog number with "-SCS"

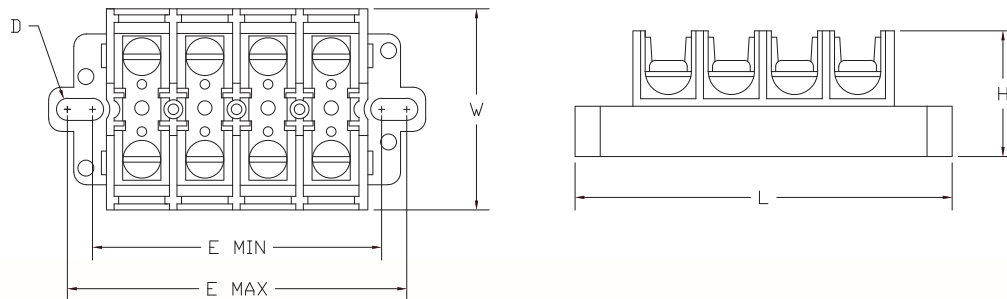
Extra shorting pins (SCP-1) can be ordered separately

Short circuiting block with cover and two shorting pins available by suffixing catalog number with "-SCC"

Noryl® Commercial Grade Terminal Blocks

Type 15-1600

- For use in service equipment, switchboards, panelboards, and service entrance devices
- Constructed with 94V-1 grade Noryl®
- Design utilizes adjustable, metal mounting eyelets that allow for easy installation and evenly distributed mounting screw pressure
- Screws are friction locked to prevent loosening
- Rated for service at 600V
- 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 amp with #6 wire
30 amp with other wire
 - Torque: 20 in-lbs.
- Meets 125V UL service entrance equipment requirements
- All blocks can accommodate lugs up to .44" pad width



CATALOG NUMBER	NUMBER OF WIRES PER SIDE	APPROXIMATE DIMENSIONS (IN.)					
		W	H	L	MOUNTING HOLE		D
					E MIN.	E MAX.	
15-1604	4	2.00	1.25	3.75	2.88	3.38	.22
15-1606	6			5.00	4.13	4.63	
15-1608	8			6.25	5.38	5.88	
15-1612	12			8.75	7.88	8.38	

Noryl® is a trademark of General Electric Company

Ordering Information:

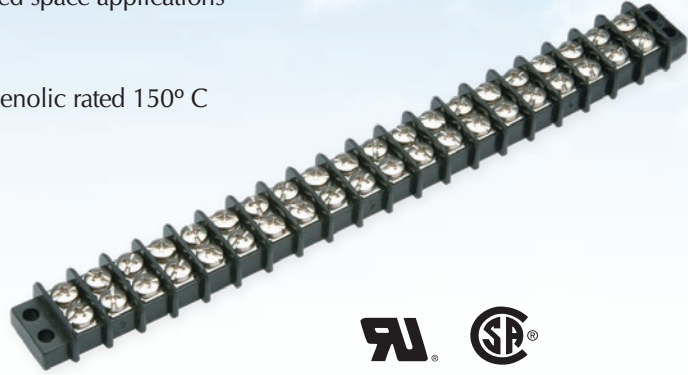
For terminal blocks with shorting strips, suffix catalog number with "-SC"

For terminal blocks with clear plastic hinged lids, suffix catalog number with "-C"

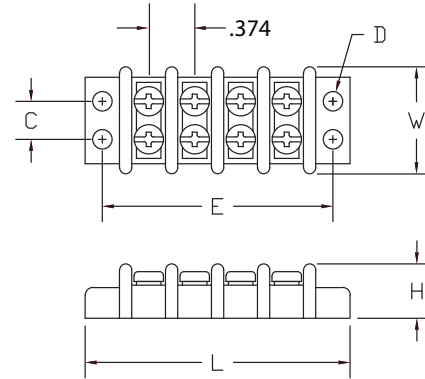
Double Row Terminal Blocks

Type 3000

- Compact size of Series 3000 lends itself for use in limited space applications
- Wire range: 12-22 AWG Sol./Str.
- Molded base is manufactured from general purpose phenolic rated 150° C
- Ratings: 20 amps, 300V



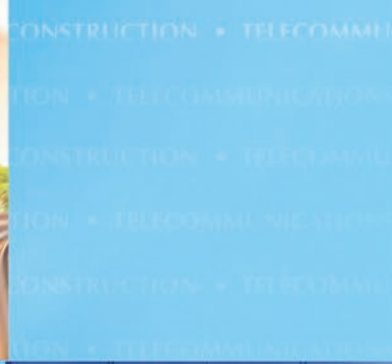
CATALOG NUMBER	NUMBER OF WIRES PER SIDE	APPROXIMATE DIMENSIONS (IN.)					
		W	H	L	E	D	C
3002	2			1.41	1.13		
3003	3			1.78	1.50		
3004	4			2.16	1.88		
3005	5			2.53	2.25		
3006	6			2.91	2.63		
3007	7			3.28	3.00		
3008	8			3.66	3.38		
3009	9			4.03	3.75		
3010	10			4.41	4.13		
3011	11			4.78	4.50		
3012	12			5.16	4.88		
3013	13			5.53	5.25		
3014	14			5.91	5.63		
3015	15			6.28	6.00		
3016	16	.87	.44	6.66	6.38	.13	.31
3017	17			7.03	6.75		
3018	18			7.41	7.13		
3019	19			7.78	7.50		
3020	20			8.16	7.88		
3021	21			8.53	8.25		
3022	22			8.91	8.63		
3023	23			9.28	9.00		
3024	24			9.66	9.38		
3025	25			10.03	9.75		
3026	26			10.41	10.13		
3027	27			10.78	10.50		
3028	28			11.16	10.88		
3029	29			11.53	11.25		
3030	30			11.91	11.63		







- Construction**
- Utilities**
- Power Transmission**
- Industrial**
- Telecom**
- Renewable Energy**
- Aerospace**
- Rail Systems**
- MRO**





GROUNDING CONNECTORS




PENNUINION[™]
CONNECTING YOUR TOMORROW.[™]

Copper Range Taking C-Taps

Type RTC

- Manufactured from high conductivity wrought copper
- Applications include copper to copper tapping, splicing or pigtailing
- Compact size allows for easy taping and insulation of connection
- Color-coded for proper crimp die selection
- Design provides for low installation cost
-  to UL 486A-486B for power applications
-  to UL 467 for grounding, bonding and direct burial applications*
- Rated for 600 V applications at 90°C
- Range taking connector allows for lower inventory requirements

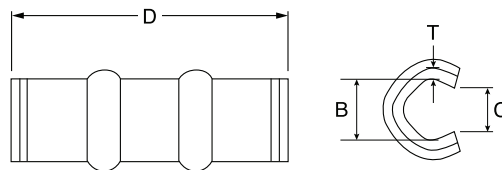


Fig. 1

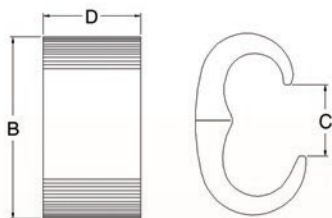


Fig. 2

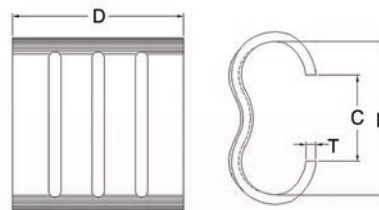


Fig. 3

See table for dimensions and installation tooling information

TYPE RTC DIMENSIONS & INSTALLATION TOOLING INFORMATION

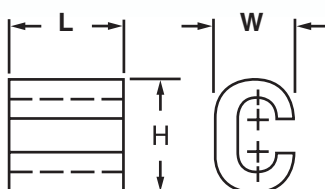
CATALOG NUMBER	COPPER CONDUCTOR SIZE RANGES		FIG. NO.	NO. OF RIBS	APPROXIMATE DIMENSIONS (IN.)				WIRE STRIP LENGTH	CRIMP DIE COLOR CODE	COMPETITORS (Items noted as alternates are mostly due to wire range differences. Refer to competitor catalog for specifics.)			
	RUN	TAP			B	C	D	T			BURNDY	T&B	PANDUIT	NSI
RTC-1	14	14 - 16	1	0	.18	.10	.33	.07	1/2"	Red	YC10L12	54705	CTAPF10-16-C	CT-101
	12	12 - 16												
	10	14												
RTC-2	10	10	1	0	.24	.14	.61	.07	5/8"	Blue	YC8L12	54710	CTAPF8-12-C	CT-102
	8	12												
RTC-3	8	8-10	1	0	.32	.19	.61	.07	5/8"	Gray	YC6L12	54715 (alt.)	CTAPF6-12-C	CT-103
	6	10 - 12												
RTC-4	6	6 - 8	1	1	.39	.28	1.17	.07	1-1/4"	Brown	YC4L12	54720	CTAPF4-12-C	CT-104
	4	8 - 12												
RTC-5	4	4 - 6	1	1	.45	.26	1.17	.07	1-1/4"	Green	YC3L12	54725 (alt.)	CTAPF3-12-C	CT-105
	3	6 - 12												
RTC-6	4	4	1	1	.49	.30	1.17	.07	1-1/4"	Pink	YC2L12	54730 (alt.)	CTAPF2-12-C	CT-106
	3	4 - 6												
	2	6 - 12												
RTC-7	3	3 - 4	1	2	.53	.31	1.75	.07	2"	Black	YC1L12	54735	CTAPF1-12-C	CT-107
	2	4 - 6												
	1	4 - 12												
RTC-8	2	2 - 4	1	2	.61	.41	1.75	.09	2"	Orange	YC25L12	54740	CTAPF1/0-12-L	CT-108
	1	3 - 4												
	1/0	4 - 12												
RTC-9	1	1 - 2	1	2	.69	.42	1.75	.09	2"	Purple	YC26L12	54745	CTAPF2/0-12-Q	CT-109
	1/0	2 - 3												
	2/0	3 - 12												
RTC-10	1/0	1/0 - 1	1	2	.81	.46	1.75	.09	2"	Yellow	YC27L12	54750	CTAPF3/0-12-Q	CT-110
	2/0	1 - 2												
	3/0	2 - 12												
RTC-11	1	1	2	—	1.30	.51	.79	—	1"	Blue	YGHC26C2 AND YGHC26C26 (both alt.)	54755	—	CTH-111
	1/0	1/0 - 2												
	2/0	2/0 - 4												
	3/0 - 4/0	1/0 - 6												
RTC-12	4/0	1 - 8	2	—	1.46	.57	.78	—	1"	Brown	—	54760	—	CTH-112
	2/0	2/0 - 1												
	3/0	3/0 - 2												
	4/0	4/0 - 4												
RTC-13	250	1/0 - 8	2	—	1.67	.67	1.03	—	1-1/8"	Pink	—	54765	—	CTH-113
	4/0	4/0 - 4												
	3/0	3/0 - 2												
	250	3/0 - 6												
	300	2/0 - 8												
RTC-14	4/0	4/0 - 2/0	2	—	1.71	.73	1.03	—	1-1/8"	Black	YGH-C29C26 & YGHC29C29 (both alt.)	54770	—	CTH-114
	250	250 - 1												
	300	4/0 - 4												
	350	3/0 - 6												
RTC-15*	250	250	2	—	1.85	.81	1.28	—	1-5/16"	Yellow	YGHC34C26 AND YGHC34C29 (both alt.)	54775	—	CTH-115
	300	300 - 3/0												
	350	350 - 1/0												
	400	300 - 2												
	450	250 - 4												
RTC-16*	500	250 - 6	2	—	2.20	0.81	1.29	—	1-5/16"	White	YGHC34C4 (alt.)	54780	—	CTH-116
	350	350 - 4/0												
	400	400 - 2/0												
	450	450 - 1												
RTC-17*	500	500 - 2	3	—	2.42	1.36	2.72	.16	2-3/4"	—	—	54785	—	CTH-117
	750-500	4/0 - 6										54790		
	750	750 - 4/0												

* Items are not  us for grounding and bonding applications. BURNDY, T&B, PANDUIT and NSI are registered trademarks of their respective companies

Copper C-Taps

Type CCT

- Manufactured from high conductivity copper alloy
- Used for making tap or parallel copper connections
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation
- Installation time is reduced because of its "C" shape

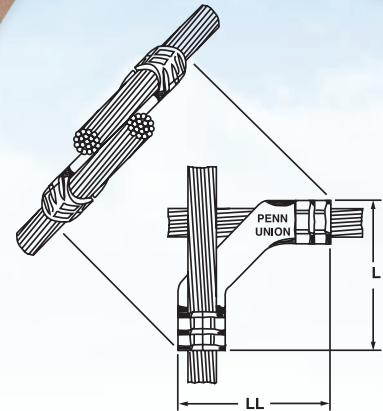


CATALOG NUMBER	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)			WIRE STRIP LENGTH	INSTALLATION TOOLING		
	RUN	TAP	L	H	W		PENN-UNION TOOL	DIE INDEX	NO. OF CRIMPS
CCT-46	6 Sol. - 4 Str.	6 Sol. - 6 Str.	.63	.75	.44	3/4"	TPU-12B	BG	1
CCT-44	6 Sol. - 4 Str.	4 Sol. - 4 Str.	.63	.81	.44	3/4"		BG	
CCT-24	2 Sol. - 2 Str.	8 Sol. - 4 Str.	.75	1.00	.63	7/8"		C	
CCT-22	2 Sol. - 2 Str.	2 Sol. - 2 Str.	.75	1.00	.63	7/8"		C	
CCT-2020	1/0 Str. - 2/0 Str.	1/0 Str. - 2/0 Str.	.94	1.38	.81	5/8"		0	
CCT-4020	3/0 Str. - 4/0 Str.	1/0 Str. - 2/0 Str.	1.06	1.63	1.00	13/16"		D3	
CCT-4040	3/0 Str. - 4/0 Str.	3/0 Str. - 4/0 Str.	1.06	1.56	1.00	13/16"		D3	

Copper Ground Grid Connectors

Type GGCP

- Manufactured from high conductivity cast copper
- Designed for a wide range of grounding applications including generating stations, substations, chemical plants, and heavy industrial plants where fault-current surges must be dissipated quickly and safely
- Pure copper construction provides a low resistance connection
- Installed with industry standard tools and dies
- Suitable for direct burial in earth or concrete



RoHS
COMPLIANT

CATALOG NUMBER	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)		INSTALLATION TOOLING								
					T&B			BURNDY			KEARNEY		
	MAIN	TAP	L	LL	TOOL	DIE	NO. OF CRIMPS	TOOL	INDEX	NO. OF CRIMPS	TOOL	DIE	NO. OF CRIMPS
GGCP-1	2 Str. - 1 Str.	2 Str. - 1 Str.	2.44	2.44	15 Ton 40 Ton	54H 54	2 1	Y35+	BG	1	WH-1	5/8-1	2
GGCP-2/0	1/0 Str. - 2/0 Str.	1/0 Str. - 2/0 Str.	3.63	3.63	15 Ton 40 Ton	66	1	Y45L	251	1	PH-4	K-3/4	1
GGCP-025-2/0	4/0 Sol. - 250 kcmil	1/0 Str. - 2/0 Str.	3.66	3.66	15 Ton 40 Ton	87H 87	2 1	Y45L	299	1	PH-4	K-1-2	1
GGCP-025	4/0 Sol. - 250 kcmil	4/0 Sol. - 250 kcmil	3.66	3.66	15 Ton 40 Ton	87H 87	2 1	Y45L	299	1	PH-4	K-1-2	1
GGCP-050-025	500 kcmil	4/0 Sol. - 250 kcmil	4.31	4.44	15 Ton 40 Ton	115H 115	1	Y45L	936	2	PH-4	K-1½H	2
GGCP-050	500 kcmil	500 kcmil	4.50	4.50	15 Ton 40 Ton	115H 115	1	Y45L	936	2	PH-4	K-1½H	2
GGCP-075-025	750 kcmil	4/0 Str. - 250 kcmil	4.63	5.28	40 Ton	150	1	Y48BH	352	1	PH-4	K-1½H	2
GGCP-075-050		500 kcmil	5.28	5.28									
GGCP-075		750 kcmil	5.50	5.50									

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

GGCP-2U-4/0	4/0 Str.	4/0 Str.	3.67	3.67	15 Ton 40 Ton	87H 87	2 1	Y45L	299	1	PH-4	K-1-2	1
GGCP-2U-025	250 kcmil	250 kcmil	3.66	3.66	15 Ton 40 Ton	87H 87	2 1	Y45L	299	1	PH-4	K-1-2	1

Type GGCP-GR (Designed for use with ground rod)

GGCP-025½GR	4/0 Sol.-250 kcmil	5/8" Ground Rod	3.13	3.13	15 Ton 40 Ton	87H 87	2 1	Y45L	299	1	PH-4	K-1-2	1
GGCP-2/0½GR	1/0 Str. - 2/0 Str.		3.13	3.13	15 Ton 40 Ton	87H 87	2 1	Y45L	299	1	PH-4	K-1-2	1
GGCP-025¾GR	4/0 Sol. - 250 kcmil	3/4" Ground Rod	4.30	4.44	15 Ton 40 Ton	115H 115	2 1	-	-	-	-	-	-
GGCP-2/0¾GR	1/0 Str. - 2/0 Str.		4.30	4.44	15 Ton 40 Ton	115H 115	2 1	-	-	-	-	-	-

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

Copper Lay-In Lugs

Type LI-CU-DB

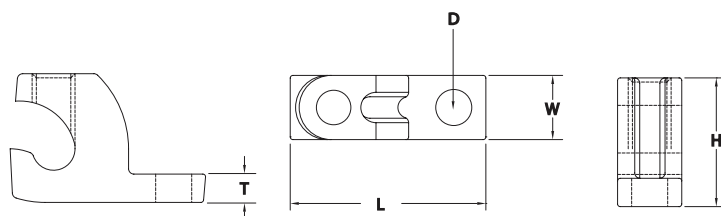
- **Figure 1** is manufactured from high conductivity wrought copper
- **Figure 2** is manufactured from high conductivity cast copper
- Electro-tin plated body and stainless steel set screw ensure minimum contact resistance and protection against corrosion
- Range taking - accommodates copper conductor sizes 4 Str. - 14 Sol.
- Side entrance design permits the quick installation of a continuous conductor run to multiple locations
- Suitable for direct burial in earth or embedment in concrete
- Excellent choice for use on grounding conductors with photovoltaic modules and mounting systems
- **Figure 1** is listed to and complies with the following standards:
UL 467 and CSA C22.2 No.41-13
- **Figure 2** is listed to and complies with the following standards: UL 467, CSA C22.2 No.41-13, UL 2703, and ULC C1703



Fig. 1



Fig. 2



CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					MTG. BOLT SIZE
			L	W	H	T	D (DIA.)	
LI-50S-CU-DB	1	4 Str. - 14 Sol.	1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-UP	1		1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-UP-HH	1		1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-CG*	2		1.14	.38	.75	.17	.21	3/16
LI-50S-CU-DB-C	2		1.14	.38	.75	.17	.21	3/16
LI-50S-CU-DB-CM6	2		1.14	.38	.75	.17	.26	6 mm or 1/4

*Provided with green plated set screw
 - Suffix "-UP" indicates unplated
 - Suffix "-HH" indicates hex head set screw

Bronze Service Post Connectors

Type SSS and SCS

Male design

- Manufactured from high copper content wrought alloy for maximum conductivity
- Designed to ground one or two cables to steel structures, bus bars, or transformers
- True hex design for body and nut simplifies installation with standard socket, box, or open end wrenches
- Split bolt design provides maximum conductor pull-out performance
- UL listed for use as a power connector per UL486A-B and for grounding and bonding applications per UL467
- Suitable for direct burial in earth or concrete
- Suffix “-A1” for 1/2” longer mounting stud
- For stud mounting hardware, suffix catalog number with “-SMH”



Type SCS

Type SSS

Type SSS-A1



CATALOG NUMBER	CONDUCTOR RANGE	CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				
				STUD THREAD SIZE	NUT HEX	C	H	BODY HEX
FIG. 1 (ONE CABLE)		FIG. 2 (TWO CABLES)						
SSS-0	12 Sol. - 8 Str.	SCS-0	12 Sol. - 8 Str.	1/4-20	1/2	.50	.63	3/8
SSS-0A1		SCS-0A1				1.00		
SSS-1	8 Sol. - 7 Str.	SCS-1	10 Sol. - 7 Str.	1/4-20	11/16	.50	.88	1/2
SSS-1A1		SCS-1A1				1.00		
SSS-2	10 Sol. - 4 Str.	SCS-2	10 Sol. - 4 Str.	5/16-18	3/4	.56	.94	9/16
SSS-2A1		SCS-2A1				1.00		
SSS-3	6 Sol. - 3 Str.	SCS-3	10 Sol. - 3 Str.	3/8-16	13/16	.63	1.06	5/8
SSS-3A1		SCS-3A1				1.13		
SSS-4	4 Str. - 2 Str.	SCS-4	10 Sol. - 2 Str.	3/8-16	7/8	.63	1.06	11/16
SSS-4A1		SCS-4A1				1.13		
SSS-5	6 Sol. - 1/0 Str.	SCS-5	2 Sol. - 1/0 Str.	1/2-13	1	.75	1.31	3/4
SSS-5A1		SCS-5A1				1.25		
SSS-6	1 Sol. - 2/0 Str.	SCS-6	2 Sol. - 2/0 Str.	1/2-13	1 1/8	.75	1.44	7/8
SSS-6A1		SCS-6A1				1.25		
SSS-8	3/0 Sol. - 4/0 Str.	SCS-8	1 Sol. - 4/0 Str.	5/8-11	1 3/8	1.00	1.69	1 1/8
SSS-8A1		SCS-8A1				1.50		
SSS-9	4/0 Str. - 350 kcmil	SCS-9	1 Str. - 350 kcmil	5/8-11	1 1/2	1.00	2.00	1 1/4
SSS-9A1		SCS-9A1				1.50		
SSS-10	250 - 500 kcmil	SCS-10	3/0 Str. - 500 kcmil	3/4-10	1 13/16	1.38	2.31	1 1/2
SSS-10A1		SCS-10A1				1.75		
*SSS-11	300 - 750 kcmil	*SCS-11	350 - 750 kcmil	3/4-10	2 1/4	1.38	2.50	1 7/8
*SSS-11A1		*SCS-11A1				1.88		
*SSS-12	750 - 1000 kcmil	*SCS-12	500 - 1000 kcmil	1-8	2 5/8	1.50	3.00	2 3/8
*SSS-12A1		*SCS-12A1				2.00		

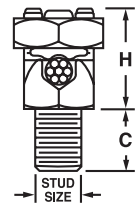


FIG. 1

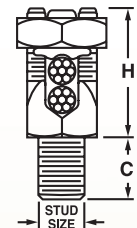


FIG. 2

*UL listing is limited to 500 kcmil

Bronze Service Post Connectors

Type STS and SDS

Female design

- Manufactured from high copper content wrought alloy for maximum conductivity
- Designed to ground one or two cables to steel structures, bus bars, or transformers
- True hex design for body and nut simplifies installation with standard socket, box, or open end wrenches
- Split bolt design provides maximum conductor pull-out performance
- UL listed for use as a power connector per UL486A-B and for grounding and bonding applications per UL467
- Suitable for direct burial in earth or concrete



Type STS

Type SDS

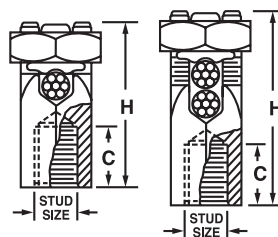


FIG. 1

FIG. 2

CATALOG NUMBER	CONDUCTOR RANGE	CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				
				STUD THREAD SIZE	NUT HEX	C	H	BODY HEX
FIG. 1 (ONE CABLE)		FIG. 2 (TWO CABLES)						
STS-0	12 Sol. - 8 Str.	SDS-0	12 Sol. - 8 Str.	1/4-20	1/2	.25	.91	3/8
STS-1	10 Sol. - 7 Str.	SDS-1	10 Sol. - 7 Str.	1/4-20	11/16	.25	1.13	1/2
STS-2	8 Sol. - 4 Str.	SDS-2	10 Sol. 4 Str.	5/16-18	3/4	.31	1.44	9/16
STS-3	6 Str. - 3 Str.	SDS-3	10 Sol. - 3 Str.	3/8-16	13/16	.38	1.50	5/8
STS-4	6 Str. - 2 Str.	SDS-4	10 Sol. - 2 Str.	3/8-16	7/8	.38	1.63	11/16
STS-5	2 Sol. - 1/0 Str.	SDS-5	2 Sol. - 1/0 Str.	1/2-13	1	.44	1.88	3/4
STS-6	1 Sol. - 2/0 Str.	SDS-6	2 Sol. - 2/0 Str.	1/2-13	1 1/8	.50	2.06	7/8
STS-8	1/0 Str. - 4/0 Str.	SDS-8	1 Sol. - 4/0 Str.	5/8-11	1 3/8	.63	2.38	1 1/8
STS-9	4/0 Str. - 350 kcmil	SDS-9	1 Str. - 350 kcmil	5/8-11	1 1/2	.63	2.63	1 1/4
STS-10	300 - 500 kcmil	SDS-10	3/0 Str. - 500 kcmil	3/4-10	1 13/16	.75	3.13	1 1/2
*STS-11	600 - 750 kcmil	*SDS-11	350 - 750 kcmil	3/4-10	2 1/4	.88	3.50	2
*STS-12	750 - 1000 kcmil	*SDS-12	500 - 1000 kcmil	1-8	2 5/8	1.13	4.13	2 3/8

*UL listing is limited to 500 kcmil

Bronze Transformer Ground Clamps

Type GSE and HGSE

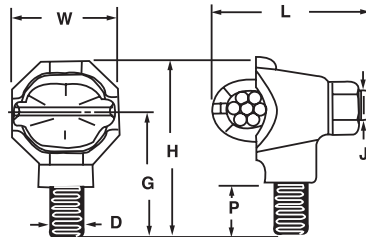
- Manufactured from high strength, high conductivity cast copper alloy
- Furnished with stainless steel hardware for corrosion resistance
- Type GSE may be tightened by using a wrench on the body
- Type HGSE provides a hex or square shoulder for wrench tightening
- For silicon bronze hardware, suffix catalog number with “-SBH”
- For tin plating, suffix catalog number with “-TN”



Type GSE



Type HGSE



CATALOG NUMBER	COPPER CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						
		D (STUD SIZE)	G	H	J (EYEBOLT STUD SIZE)	L	P	W
GSE-C1+	10 Sol. - 1 Str.	1/2-13	.81	1.25	3/8-16	1.50	.44	.88
GSE-020	8 Sol. - 2/0 Str.	1/2-13	1.00	1.44	3/8-16	1.97	.44	.88
GSE-025	6 Sol. - 250 kcmil	1/2-13	1.69	1.94	1/2-13	2.56	.31	1.25
HGSE-C1*	10 Sol. - 1 Str.	1/2-13	1.19	1.75	3/8-16	1.97	.44	1.13
HGSE-020*	8 Sol. - 2/0 Str.	1/2-13	1.31	1.94	3/8-16	2.00	.44	1.25
HGSE-250*	6 Sol. - 250 kcmil	1/2-13	1.19	2.13	1/2-13	2.63	.47	1.88

+RUS accepted plain and tin plated

*Designates two-way basket

Copper Alloy Split Bolt Connectors

Types S and SEL

- Manufactured from high strength copper alloy - highly resistant to corrosion and season cracking
- For use with a wide range of copper solid, compact, compressed, concentric, copperweld conductors, and rebar
- Approved for electrical power, grounding/bonding, and direct burial applications



Application/Use:

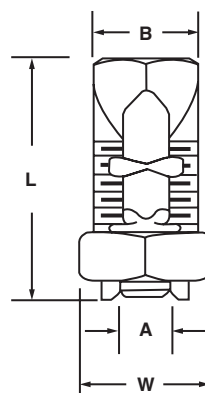
- **Type S** is for use with two conductors in electrical power applications; 2 conductors or conductor to rebar in grounding/bonding and direct burial applications in earth and concrete
- **Type SEL** is for use with two or three conductors in electrical power, grounding/bonding, and direct burial applications in earth and concrete
- DB permanently marked on head for conductor sizes up to 500 kcmil

High Quality Design:

- True hex design allows easy installation with standard tooling
- Under torque, this design provides high contact pressure between conductors or conductor to rebar
- Pressure bar design features give assurance of high “pull-out” and secure connection on all combinations of conductors
- Wide wire range
- Rated for copper conductors, 600 V, 90°C

Installation:

- Use with torque wrench, standard socket, box or open-end wrenches
- Reusable with proper installation practice



Type S - Two Conductors

CATALOG NUMBER	RANGE OF EQUAL RUN & TAP	MIN. TAP W/ ONE MAX. MAIN	MAX. CONDUCTOR COPPERWELD		UL ONLY REBAR W/ 6 OR 8 AWG	APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
			STR.	TYPE A		L	W	B	A	
S-10*	16 Str. - 10 Str.	16 Str.	-	-	-	.72	.50	.34	.13	80
S-8*	16 Str. - 8 Str.	16 Str.	-	-	-	.84	.50	.38	.15	80
S-6*	10 Sol. - 6 Sol.	16 Sol.	-	-	-	1.05	.63	.50	.17	165
S-4*	8 Sol. - 4 Sol.	16 Sol.	3 No. 12	8A	-	1.05	.69	.56	.22	165
S-3*	6 Sol. - 2 Sol.	12 Sol.	3 No. 9	5A	-	1.32	.81	.69	.33	275
S-2*	6 Sol. - 2 Str.	14 Str.	3 No. 7	3A	-	1.32	.81	.69	.33	275
S-1/0*	4 Sol. - 1/0 Str.	14 Sol.	3 No. 6	2A	-	1.64	.88	.75	.38	385
S-2/0	2 Sol. - 2/0 Str.	14 Str.	3 No. 5	-	#3 (3/8)	1.82	1.00	.81	.42	385
S-3/0	2 Sol. - 3/0 Str.	12 Sol.	7 No. 7	-	-	2.00	1.13	.88	.47	500
S-4/0-250	1/0 Sol. - 250 kcmil	10 Sol.	7 No. 5	-	#4 (1/2)	2.08	1.31	1.00	.58	650
S-350+	4/0 Str. - 350 kcmil	8 Sol.	19 No. 7	-	#5 (5/8)	2.63	1.63	1.50	.75	650
S-500+	250 - 500 kcmil	8 Sol.	19 No. 6	-	#6 (3/4)	3.00	1.81	1.63	.83	825
S-750++	350 - 750 kcmil	8 Sol.	19 No. 5	-	-	3.75	2.13	1.94	1.03	1000
S-1000++	500 - 1000 kcmil	8 Sol.	-	-	-	4.00	2.50	2.25	1.22	1100

+UL Only Grounding, Bonding, Direct Burial (350 & 500)

++Not Approved Grounding, Bonding, Direct Burial

* RUS REA Accepted

Type SEL - Two or Three Conductors

CATALOG NUMBER	RANGE OF EQUAL RUN & TAP	MIN. TAP W/ ONE MAX. MAIN	MAX. CONDUCTOR COPPERWELD		APPROXIMATE DIMENSIONS (IN.)				TORQUE (IN-LBS)
			STR.	TYPE A	L	W	B	A	
SEL-8*	16 Str. - 8 Str.	16 Str.	-	-	.84	.50	.38	.14	80
SEL-6*	10 Sol. - 6 Sol.	16 Sol.	-	-	1.09	.63	.50	.17	165
SEL-4*	8 Sol. - 4 Sol.	16 Sol.	3 No. 12	8A	1.27	.69	.56	.22	165
SEL-2*	6 Sol. - 2 Str.	14 Str.	3 No. 7	3A	1.55	.81	.69	.33	275

CONNECTOR TYPE	POWER	UL-467 GROUNDING			CSA C22.2 NO. 41 GROUNDING		
	UL 486A-B CSA 22.2 NO. 65 WIRE RANGE	UL GROUNDING MAX. WIRE	GROUNDING & BONDING	DIRECT BURIAL REBAR	CSA GROUNDING MAX. WIRE	GROUNDING & BONDING	DIRECT BURIAL
S SEL	16 Str. - 1000 kcmil	500 kcmil	Yes	Yes	250 kcmil	Yes	Yes

Standard Bronze Ground Clamps

Types KP and KP-B

- Cast from high strength, copper alloy for high conductivity
- Designed to connect grounding conductor to water pipe or copper tube
- Standards: UL 467, CSA C22.2 NO.41



CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	REBAR	GROUND ROD	SCREW MATERIAL
KP-1	1/2" - 1"	10 Sol. - 2 Str.	5/8" - 3/4"	1/2" - 1"	Zinc Plated Steel
KP-1J*	1/2" - 1"		-	1/2" - 1"	
KPB-1	1/2" - 1"		5/8" - 3/4"	1/2" - 1"	Brass
KP-2	1 1/4" - 2"		-	-	Zinc Plated Steel
KP-4	2 1/2" - 4"		-	-	
KP-6	4 1/2" - 6"		-	-	

*Light duty construction



Direct Burial Bronze Ground Clamps

Types KP-DB and KPL-DB

- Cast from high strength, high conductivity copper alloy
- Designed to connect grounding conductor to water pipe, copper tube, ground rod, or rebar
- Connectors are suitable for direct burial applications in earth and concrete
- Type KPL has a lay-in feature which allows the tap conductor to be easily installed without cutting
- Standards: UL 467, CSA C22.2 NO.41



CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	REBAR	GROUND ROD	SCREW MATERIAL
KP-0-DB+	1/2" - 1"	10 Sol. - 2 Str.	3/8" - 1"	1/2" - 1"	Bronze
KP-1-DB+	1/2" - 1"	10 Sol. - 2 Str.	1/2" - 1"	1/2" - 1"	Bronze
KP-1NT-DB**	1/2" - 1"	10 Sol. - 2 Str.	3/8" - 1"	1/2" - 1"	Bronze
KP-2-DB+	1 1/4" - 2"	10 Sol. - 2 Str.	-	-	Bronze
KPL-1-DB**	1/2" - 1"	10 Sol. - 2 Str.	3/8" - 1"	1/2" - 1"	Bronze
KPL-1-DB-90**	1/2" - 1"	10 Sol. - 2 Str.	3/8" - 1"	3/8" - 1"	Bronze
KPL-1-4/0-DB**	1/2" - 1"	8 Str. - 4/0 Str.	-	-	Bronze
KPL-2-4/0-DB*	1 1/4" - 2"	8 Str. - 4/0 Str.	-	-	Bronze
KPL-4-4/0-DB*	2 1/4" - 4"	8 Str. - 4/0 Str.	-	-	Bronze

* UL Listed + UL/CSA ** c UL US



Direct Burial Bronze Ground Clamp - Heavy Duty Type KPH-DB

- Cast from high strength, high conductivity copper alloy
- Designed to connect grounding conductor to water pipe, copper tube, ground rod or rebar
- Supplied with silicon bronze and stainless steel screws
- Connectors are suitable for direct burial applications in earth and concrete
- UL 467 listed

CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	REBAR	GROUND ROD	CLAMP SCREW MATERIAL	CONNECTOR SCREW MATERIAL
KPH-1-DB	1/2" - 1"	8 Str. - 4/0 Str.	3/8" - 1"	3/8" - 1"	Bronze	Stainless Steel

**NEW
PRODUCT**



Direct Burial Bronze Lay-In Ground Clamp Type KJ

- Manufactured from high strength copper cast alloy for high conductivity
- Designed to connect grounding conductor to water pipe, ground rods and copper water tubing or rebar
- Supplied with stainless steel screws
- Connectors are suitable for direct burial applications in earth and concrete
- UL 467 listed

CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	REBAR	GROUND ROD	SCREW MATERIAL
KJ-1	1/2" - 1"	10 Sol. - 2 Str.	3/8" - 1"	1/2" - 1"	Stainless Steel

**NEW
PRODUCT**



Zinc Die Cast Ground Clamps

Type KZ

- Cast from high strength zinc alloy
- Designed to connect bare copper wire to galvanized steel water pipe or copper tubing
- Standards: UL 467, CSA C22.2NO.41



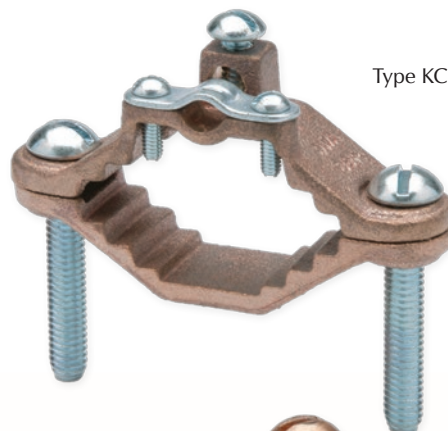
CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	COPPER ROD RANGE	SCREW MATERIAL
KZ-1	1/2" - 1"	10 Sol. - 2 Str. CU and	1/2" - 1"	Zinc Plated Steel
KZ-1-ZN+		8 Str. - 2 Str. AL		

+Brass colored zinc plated (Not UL listed or CSA certified)

Bronze Ground Clamps for Armored Cable

Type KC

- Cast from high strength, high conductivity copper alloy
- Designed to connect bare or armored copper wire to galvanized steel water pipe or copper tubing
- Integral clamp securely holds armor in place
- Standards: UL 467, CSA C22.2NO.41



Type KC

CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	COPPER ROD RANGE	SCREW MATERIAL
KC-1	1/2" - 1"	8 Sol. - 4 Str.	1/2" - 1"	Zinc Plated Steel
KC-2	1-1/4" - 2"		-	
KC-4	2-1/2" - 4"		-	
KC-6	4-1/2" - 6"		-	
KC-1-DB*	1/2" - 1"		1/2" - 1"	Bronze

*Suitable for grounding, bonding, and direct burial in earth or concrete



Type KC-DB

**NEW
PRODUCT**

Bronze Ground Clamps with Adapter Types KG & KG-DB

- Cast from high strength, high conductivity copper alloy
- Designed to connect bare copper or armored copper wire to galvanized steel or copper water pipe
- 360° integral clamp securely holds armor in place and allows for easy alignment
- Type KG-DB are suitable for direct burial applications
- Standards: UL 467, CSA C22.2NO.41



CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	SCREW MATERIAL
KG-1 •	1/2" - 1"	8 Str. - 4/0 Str.	Zinc Plated Steel
KG-2 •	1-1/4" - 2"		
KG-3 •	2-1/2" - 4"		
KG-4 •	4-1/2" - 6"		
KG-1-DB *	1/2" - 1"		Bronze
KG-2-DB *	1-1/4" - 2"		
KG-3-DB *	2-1/2" - 4"		
KG-4-DB *	4-1/2" - 6"		

• Listed * Listed

Bronze Ground Clamps for Armored Cable with 360° Swivel Hub

Type KW

- Cast from high strength, high conductivity copper alloy
- Designed to connect bare copper or armored copper wire to galvanized steel or copper water pipe
- 360° integral clamp securely holds armor in place and allows for easy alignment
- Standards: UL 467, CSA C22.2NO.41



CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	SCREW MATERIAL
KW-1	1/2" - 1"	10 Sol. - 6 Str.	Zinc Plated Steel
KW-2	1 1/4" - 2"		
KW-4	2 1/2" - 4"		

Bronze Ground Clamps for Rigid Conduit

Type KH

- Cast from high strength, high conductivity copper alloy
- Designed to connect copper grounding conductor in rigid or intermediate metal conduit (IMC) to galvanized steel or copper water pipe
- Standards: UL 467, CSA C22.2NO.41

CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	CONDUIT HUB SIZE	SCREW MATERIAL
KH-1	1/2" - 1"	8 Sol. - 4 Str.	1/2"	Zinc Plated Steel
KH-134			3/4"	
KH-11			1"	
KH-2	1 1/4" - 2"		1/2"	
KH-234			3/4"	
KH-21			1"	
KH-4	2 1/2" - 4"		1/2"	
KH-434			3/4"	
KH-41			1"	
KH-6	4 1/2" - 6"		1/2"	
KH-634			3/4"	
KH-61			1"	
KHB-1	1/2" - 1"		1/2"	Brass



Bronze Ground Clamps for Rigid Conduit with 360° Swivel Hub

Type KL

- Cast from high strength, high conductivity copper alloy
- Designed to connect copper grounding conductor in rigid or intermediate metal conduit (IMC) to galvanized steel or copper water pipe
- Integral clamp swivels 360° and allows for easy alignment
- Standards: UL 467, CSA C22.2NO.41

CATALOG NUMBER	FIG. NO.	WATER PIPE RANGE	CONDUCTOR RANGE	CONDUIT HUB SIZE	SCREW MATERIAL
KL-0	1	1/2" - 1"	10 Sol. - 6 Str.	1/2"	Zinc Plated Steel
KL-1	2		10 Sol. - 2/0 Str.	3/4"	
KL-1A	2		10 Sol. - 3/0 Str.	1"	
KL-20	1	1 1/4" - 2"	10 Sol. - 6 Str.	1/2"	
KL-2	2		10 Sol. - 2/0 Str.	3/4"	
KL-2A	2		10 Sol. - 3/0 Str.	1"	
KL-40	1	2 1/2" - 4"	10 Sol. - 6 Str.	1/2"	
KL-4	2		10 Sol. - 2/0 Str.	3/4"	
KL-4A	2		10 Sol. - 3/0 Str.	1"	

Fig. 1



Fig. 2



Bronze Ground Clamps for Rigid Conduit, IMC, or EMT with 360° Swivel Hub

Type KS

- Cast from high strength, high conductivity copper alloy
- Designed to connect copper grounding conductor in rigid conduit, intermediate metal conduit (IMC), or EMT to galvanized steel or copper water pipe
- Integral hub accommodates rigid, IMC, or EMT conduit and swivels 360° for easy alignment
- Standards: UL 467, CSA C22.2NO.41

CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	RIGID & IMC CONDUIT SIZE	EMT CONDUIT SIZE	SCREW MATERIAL
KS-1	1/2" - 1"	10 Sol. - 6 Str.	1/2"	3/4"	Zinc Plated Steel
KS-2	1 1/4" - 2"				
KS-4	2 1/2" - 4"				



Bronze Ground Clamps for Rigid Conduit with Copper Straps

Types KLS and KLS-S

- Cast from high strength, high conductivity copper alloy
- Designed to connect copper grounding conductor in rigid conduit or intermediate metal conduit (IMC) to galvanized steel or copper water pipe
- Copper straps allow for flexibility during and after installation - protects conduit from vibration
- Type KLS-S is same design as Type KLS except with a 360° integral swivel for easy alignment
- Standards: UL 467, CSA C22.2NO.41

CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	CONDUIT SIZE	SCREW MATERIAL
KLS-0	1/2" - 1"	8 Sol. - 4 Str.	1/2"	Zinc Plated Steel
KLS-1			3/4"	
KLS-1A			1"	
KLS-0S		10 Sol. - 6 Str.	1/2"	
KLS-1S		10 Sol. - 2/0 Str.	3/4"	
KLS-1AS		10 Sol. - 3/0 Str.	1"	



Bronze Conduit Hubs

Type KHH

- Cast from high strength, high conductivity copper alloy
- Designed to be used with bronze grounding pipe clamps to connect rigid conduit to water pipe
- Standards: UL 467, CSA C22.2NO.41

CATALOG NUMBER	CONDUIT SIZE
KHH-12	1/2"
KHH-34	3/4"
KHH-1	1"



Bronze Conduit Hubs with 360° Swivel

Type KLH

- Cast from high strength, high conductivity copper alloy
- Designed to be used with bronze grounding pipe clamps to connect rigid conduit to water pipe for grounding applications
- Hub swivels 360° for easy alignment
- Standards: UL 467, CSA C22.2NO.41

CATALOG NUMBER	FIG. NO.	CONDUIT SIZE	CONDUCTOR RANGE	SCREW MATERIAL
KLH-12	1	1/2"	10 Sol. - 6 Str.	Zinc Plated Steel
KLH-34	2	3/4"	10 Sol. - 2/0 Str.	
KLH-1	2	1"	10 Sol. - 3/0 Str.	



Fig. 1

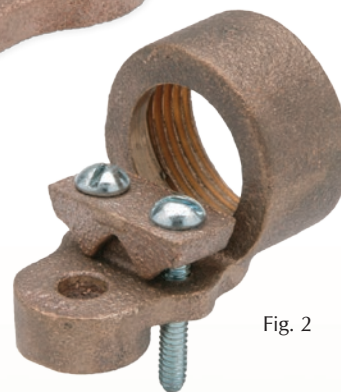


Fig. 2

Aluminum Dual Rated Ground Clamps

Types GC and GCL

- Manufactured from high strength aluminum alloy
- Designed to connect aluminum or copper ground conductors to copper water pipe, galvanized pipe, or steel conduit
- Plated for corrosion protection and low contact resistance
- Standards: UL 467
- GCL lay-in feature

CATALOG NUMBER	WATER PIPE RANGE	CONDUCTOR RANGE	CLAMP SCREW MATERIAL	CONDUCTOR GROOVE SCREW MATERIAL	CONNECTOR BODY PLATING
GC-1	1/2" - 1"	14 Sol. - 1/0 Str.	Tin Plated Steel	Tin Plated Aluminum	Tin
GCL-2*	1 1/4" - 2"	6 Sol. - 250 kcmil	Stainless Steel	Stainless Steel	Tin
GC-4	2 1/2" - 4"	6 Sol. - 250 kcmil	Zinc Plated Steel	Tin Plated Aluminum	Clear

*cULus listed



Cast Copper Tanker Static Ground Clamp

Type TSGC

- Manufactured from high strength cast copper alloy
- Ribbed design provides multiple contacts with the tank car
- Pointed wing screw design penetrates surface finishes to ensure a positive grounding contact
- Accommodates flexible rubber sheathed cable

CATALOG NUMBER	COPPER CONDUCTOR RANGE	HEX SIZE
TSGC-030	#6 - #2 AWG	3/8



Bronze Ground Rod Clamps

Types CAB and CEB

- Manufactured from corrosion resistant cast aluminum bronze
- Designed to join a range of cable to copper clad, galvanized steel and stainless steel ground rods
- Slips over end of rod for single wrench installation
- Furnished with silicon bronze hex head bolt
- UL listed for direct burial in earth and concrete
- Socket head screws can be furnished by suffixing catalog number with "-S"
- For tin plating, suffix catalog number with -TN



Heavy Duty Clamps

CATALOG NUMBER	ACCOMMODATES ROD SIZE (IN.)	CONDUCTOR RANGE
CAB-1M	1/2	10 Sol. - 2 Str.
CAB-2M*	5/8	8 Sol. - 1/0 Str.
CAB-3M	3/4	8 Sol. - 1/0 Str.

Standard Clamps

CATALOG NUMBER	ACCOMMODATES ROD SIZE (IN.)	CONDUCTOR RANGE
CAB-0	3/8	14 Sol. - 6 Str.
CAB-1	1/2	10 Sol. - 2 Str.
CAB-2	5/8	8 Sol. - 1/0 Str.
CAB-3	3/4	8 Sol. - 1/0 Str.
CAB-4	3/4	4/0 Str.
CAB-5	1	8 Sol. - 1/0 Str.
CAB-6	1	4/0 Str.

Economy Clamps

CATALOG NUMBER	ACCOMMODATES ROD SIZE (IN.)	CONDUCTOR RANGE
CEB-1+	1/2	8 Sol. - 2 Str.
CEB-2+	5/8	8 Sol. - 2 Str.
CEB-3+	3/4	8 Sol. - 2 Str.

Universal Ground Rod Clamp

CATALOG NUMBER	ACCOMMODATES ROD SIZES (IN.)	CONDUCTOR RANGE
CEB-U	1/2, 5/8, and 3/4	10 Sol. - 1/0 Str.

* For 1/2" thread bolt and extra long body, use CAB-2ML

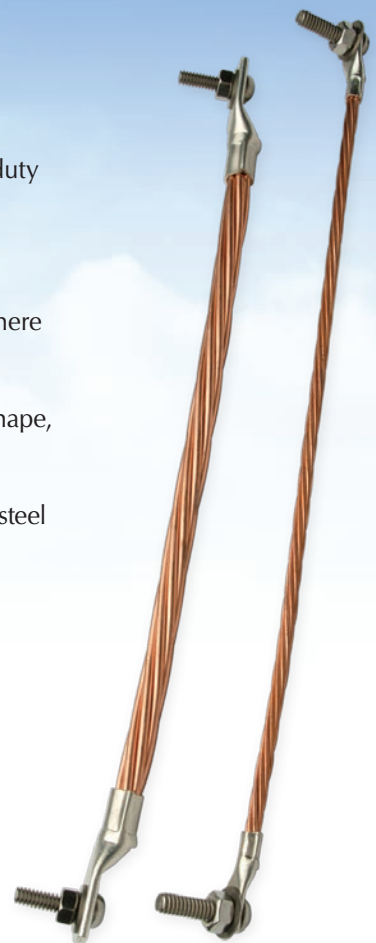
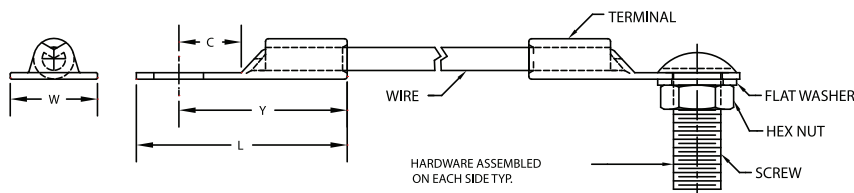
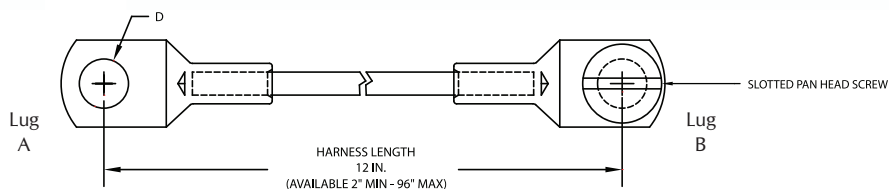
+ RUS accepted plain and tin plated

• RUS accepted tin plated only

Copper Grounding Harnesses

Type CH

- Harnesses are manufactured using bare stranded copper wire and tin plated heavy duty copper compression lugs
- Copper lugs are factory crimped to the wire ensuring a low resistance connection
- Suitable for use in industrial, commercial, and residential grounding applications where space is limited
- Copper stranded conductor is rigid enough to be preformed and maintain desired shape, while also remaining flexible enough to account for vibration
- Suitable for direct burial applications in earth or concrete when used with stainless steel mounting hardware

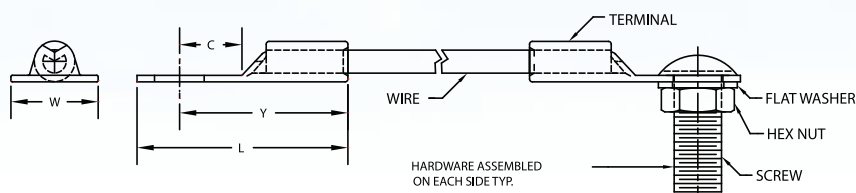
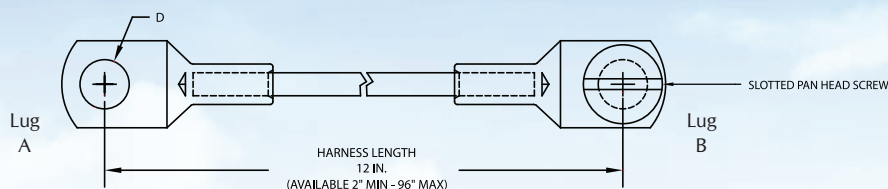


Catalog Number Breakdown

CATALOG NUMBER PREFIX	WIRE SIZE DESIGNATION (AWG)	STUD SIZE LUG A	STUD SIZE LUG B	HARNESS LENGTH (IN.)	HARDWARE DESIGNATION
CH	8	#8 (8)	#8 (8)	2" - 96"	<p>For stainless steel hardware, add suffix "-SSH"</p> <p>To order without mounting hardware, omit suffix "-SSH"</p>
	6	#10 (10)	#10 (10)		
	4	1/4" (14)	1/4" (14)		
	2	5/16" (516)	5/16" (516)		
	1	3/8" (38)	3/8" (38)		
	1/0	7/16" (716)	7/16" (716)		
	2/0	1/2" (12)	1/2" (12)		
	3/0	5/8" (58)	5/8" (58)		
	3/4	3/4" (34)	3/4" (34)		
	4/0	7/8" (78)	7/8" (78)		

GROUNDING CONNECTORS

Grounding Harnesses - Type CH (continued)



Standard 12" Harnesses

CATALOG NUMBER (WITH STAINLESS STEEL MOUNTING HARDWARE)	COPPER CONDUCTOR SIZE/ CLASS	REFERENCE COMPRESSION TERMINAL	STUD SIZE (EACH END)	APPROXIMATE DIMENSIONS (IN.)				
				W	L	Y	C	D
CH8-88-12-SSH	8 AWG Class B	BLY8C-L14	#8	.42	1.15	.95	.23	.18
CH8-1010-12-SSH		BLY8C-L	#10	.42	1.15	.94	.23	.20
CH8-1414-12-SSH		BLY8C-L1	1/4	.42	1.22	.99	.27	.28
CH8-516516-12-SSH		BLY8C-L2	5/16	.59	1.30	1.01	.30	.34
CH8-3838-12-SSH		BLY8C-L3	3/8	.59	1.30	1.00	.33	.40
CH8-1212-12-SSH		BLY8C-L4	1/2	.83	1.55	1.16	.44	.53
CH6-1010-12-SSH	6 AWG Class B	BLY6C-L1	#10	.47	1.31	1.07	.24	.20
CH6-1414-12-SSH		BLY6C-L	1/4	.47	1.31	1.06	.27	.28
CH6-516516-12-SSH		BLY6C-L4	5/16	.62	1.44	1.14	.31	.34
CH6-3838-12-SSH		BLY6C-L2	3/8	.62	1.44	1.13	.33	.40
CH6-1212-12-SSH		BLY6C-L10	1/2	.83	1.68	1.28	.44	.53
CH4-1010-12-SSH	4 AWG Class A, B	BLY4C-L3	#10	.63	1.40	1.13	.28	.20
CH4-1414-12-SSH		BLY4C-L	1/4	.63	1.40	1.12	.28	.28
CH4-516516-12-SSH		BLY4C-L4	5/16	.63	1.49	1.18	.31	.34
CH4-3838-12-SSH		BLY4C-L2	3/8	.65	1.49	1.18	.33	.40
CH4-1212-12-SSH		BLY4C-L5	1/2	.83	1.72	1.31	.44	.53
CH2-1010-12-SSH	2 AWG Class A, B	BLY2C-L3	#10	.71	1.73	1.39	.34	.20
CH2-1414-12-SSH		BLY2C-L1	1/4	.71	1.73	1.39	.34	.28
CH2-516516-12-SSH		BLY2C-L2	5/16	.71	1.73	1.38	.34	.34
CH2-3838-12-SSH		BLY2C-L	3/8	.71	1.73	1.38	.34	.40
CH2-1212-12-SSH		BLY2C-L4	1/2	.80	1.90	1.50	.45	.53
CH1-1010-12-SSH	1 AWG Class A	BLY1C-L6	#10	.77	1.67	1.32	.25	.20
CH1-1414-12-SSH		BLY1C-L1	1/4	.77	1.85	1.46	.38	.28
CH1-516516-12-SSH		BLY1C-L2	5/16	.77	1.85	1.46	.38	.34
CH1-3838-12-SSH		BLY1C-L	3/8	.77	1.85	1.46	.38	.40
CH1-716716-12-SSH		BLY1C-L4	7/16	.77	1.85	1.43	.38	.46
CH1-1212-12-SSH		BLY1C-L3	1/2	.77	1.98	1.60	.45	.53

Grounding Harnesses - Type CH (continued)
Standard 12" Harness

CATALOG NUMBER (WITH STAINLESS STEEL MOUNTING HARDWARE)	COPPER CONDUCTOR SIZE/ CLASS	REFERENCE COMPRESSION TERMINAL	STUD SIZE (EACH END)	APPROXIMATE DIMENSIONS (IN.)				
				W	L	Y	C	D
CH1/0-1414-12-SSH	1/0 AWG Class A, AA	BLY25-L1	1/4	.85	2.05	1.63	.42	.28
CH1/0-516516-12-SSH		BLY25-L2	5/16	.85	2.05	1.63	.42	.34
CH1/0-3838-12-SSH		BLY25-L	3/8	.85	2.05	1.63	.42	.40
CH1/0-716716-12-SSH		BLY25-L6	7/16	.85	2.05	1.61	.42	.46
CH1/0-1212-12-SSH		BLY25-L3	1/2	.85	2.09	1.65	.45	.53
CH1/0-5858-12-SSH		BLY25-L4	5/8	.90	2.31	1.80	.62	.66
CH2/0-1414-12-SSH	2/0 AWG Class A, AA	BLY26-L1	1/4	.94	2.32	1.84	.47	.28
CH2/0-516516-12-SSH		BLY26-L2	5/16	.94	2.32	1.84	.47	.34
CH2/0-3838-12-SSH		BLY26-L	3/8	.94	2.32	1.85	.47	.40
CH2/0-716716-12-SSH		BLY26-L4	7/16	.94	2.32	1.84	.47	.46
CH2/0-1212-12-SSH		BLY26-L3	1/2	.94	2.32	1.85	.47	.53
CH2/0-5858-12-SSH		BLY26-L12	5/8	.94	2.54	2.01	.72	.66
CH3/0-1414-12-SSH	3/0 AWG Class A, AA	BLY27-L3	1/4	1.05	2.46	1.94	.51	.28
CH3/0-516516-12-SSH		BLY27-L2	5/16	1.05	2.46	1.94	.51	.34
CH3/0-3838-12-SSH		BLY27-L	3/8	1.05	2.46	1.94	.51	.40
CH3/0-716716-12-SSH		BLY27-L6	7/16	1.05	2.63	2.11	.51	.46
CH3/0-1212-12-SSH		BLY27-L1	1/2	1.05	2.46	1.93	.51	.53
CH3/0-5858-12-SSH		BLY27-L15	5/8	1.05	2.63	2.05	.70	.66
CH4/0-1414-12-SSH	4/0 AWG Class A, AA	BLY28-L1	1/4	1.15	2.76	2.20	.56	.28
CH4/0-516516-12-SSH		BLY28-L2	5/16	1.15	2.76	2.20	.56	.34
CH4/0-3838-12-SSH		BLY28-L	3/8	1.15	2.76	2.20	.56	.40
CH4/0-716716-12-SSH		BLY28-L6	7/16	1.15	2.76	2.19	.56	.46
CH4/0-1212-12-SSH		BLY28-L12	1/2	1.15	2.76	2.19	.56	.53
CH4/0-5858-12-SSH		BLY28-L13	5/8	1.15	2.76	2.19	.56	.67
CH4/0-3434-12-SSH		BLY28-L14	3/4	1.27	2.96	2.33	.56	.79
CH4/0-7878-12-SSH		BLY28-L15	7/8	1.27	2.96	2.34	.77	.90

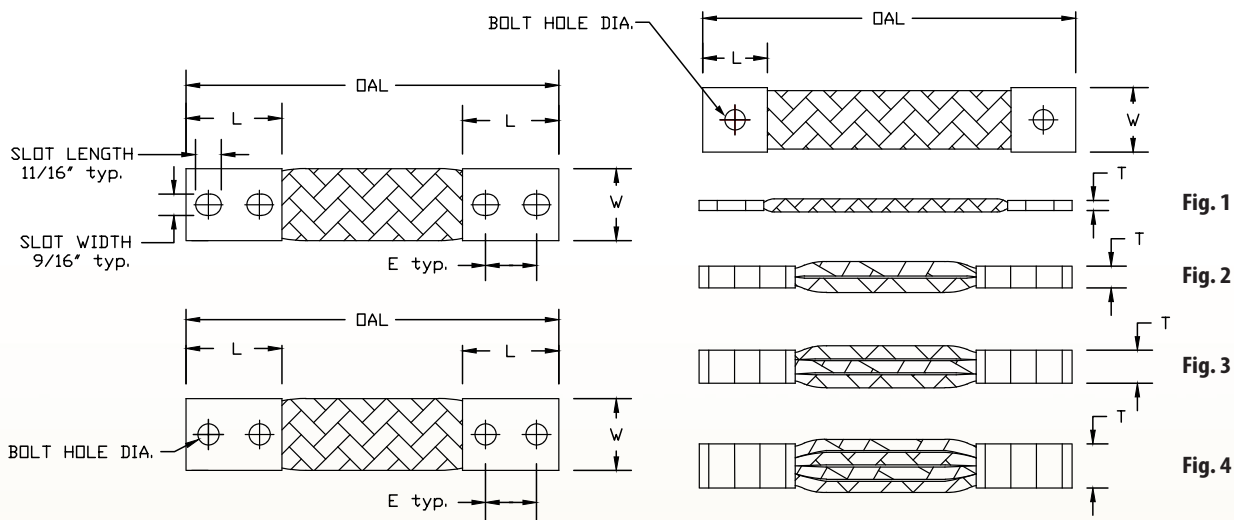
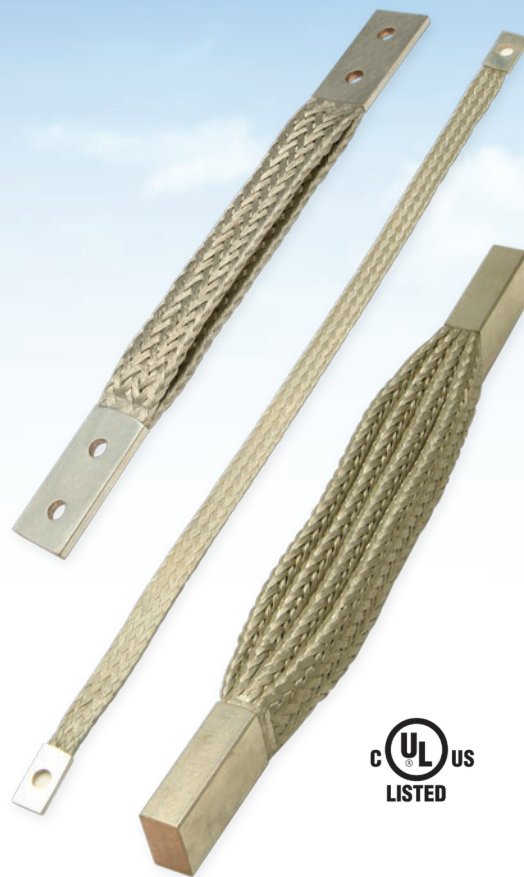
Ordering Information:

- Cable harness length can range from 2" up to 96"
- The "12" in the catalog number indicates a standard length of the cable harness
- To order other lengths, substitute the "12" with the desired length dimension in inches
- Hardware consists of stainless steel screw/bolt, flat washer and hex nut as shown
- Standard bolt length is 1" - for other lengths, contact factory
- To order without mounting hardware, remove suffix "-SSH" from catalog number
- Standard harnesses have same size mounting holes on each end
- Custom variations can be ordered by changing the stud sizes within the catalog number as shown below
- Example: A 12" long #2 AWG cable harness which will accommodate 1/4" and 3/8" mounting hardware, catalog number will be CH2-1438-12-SSH

Flexible Copper Braid Connectors

Type FXB

- Manufactured from flexible pure copper for high conductivity
- Seamless, pure copper ferrules are tin plated and cold pressed to each end
- Ideally suited for the following applications:
 - Isolation of vibration common in generator, transformer, turbine and substation installations
 - Compensation for component misalignment
 - Thermal expansion and contraction
 - Perimeter grounding and fencing
- Braid is tin plated to protect against corrosion
- Inside ends of ferrules are chamfered to prevent strand degradation
- UL listed to UL467 and certified to CSA C22.2 , No. 41 Grounding and Bonding Equipment Standards for lengths up to 48 in.
- Size/combinations not shown can be readily supplied upon request



TYPE FXB DIMENSIONS & INDEX REFERENCE

PREVIOUS CATALOG NUMBER	NEW CATALOG NUMBER	FIG. NO.	AMPERE RATING (INDOORS)*	CIRCULAR MILS	APPROXIMATE DIMENSIONS (IN.)				
					FERRULE DIMENSIONS		OVERALL LENGTH (OAL)	BOLT HOLE DIA./SLOT DIM.	E
					L	W x T			
-	FXB1-12-Q1	1	95	24,000	.75	.63 x .09	12.00	.27	-
-	FXB21-12-Q1	2	169	48,000	.75	.63 x .13	12.00	.27	-
-	FXB31-12-Q-2TC14	3	228	72,000	1.25	.63 x .16	12.00	.27	.63
-	FXB41-12-Q-2TC14	4	293	96,000	1.25	.63 x .19	12.00	.27	.63
-	FXB2-12-Q1	1	140	48,000	.75	.75 x .13	12.00	.27	-
-	FXB22-12-Q-2TC14	2	249	96,000	1.25	.75 x .17	12.00	.27	.63
-	FXB32-12-Q-2TC14	3	336	144,000	1.25	.75 x .23	12.00	.27	.63
-	FXB42-12-Q-2TC14	4	431	192,000	1.25	.75 x .28	12.00	.27	.63
FXBA-12-Q	FXB3-12-Q	1	190	76,800	2.50	1.00 x .16	12.00	.44	1.25
FXB2A-12-Q	FXB23-12-Q	2	338	153,600	2.50	1.00 x .22	12.00	.44	1.25
FXB3A-12-Q	FXB33-12-Q	3	456	230,400	2.50	1.13 x .25	12.00	.44	1.25
FXB4A-12-Q	FXB43-12-Q	4	585	307,200	2.50	1.13 x .31	12.00	.44	1.25
FXBA-12-SQ	FXB3-12-SQ	1	190	76,800	3.00	1.00 x .16	12.00	.56 x .69	1.50 to 1.75
FXB2A-12-SQ	FXB23-12-SQ	2	338	153,600	3.00	1.00 x .22	12.00	.56 x .69	1.50 to 1.75
FXB3A-12-SQ	FXB33-12-SQ	3	456	230,400	3.00	1.13 x .25	12.00	.56 x .69	1.50 to 1.75
FXB4A-12-SQ	FXB43-12-SQ	4	585	307,200	3.00	1.13 x .31	12.00	.56 x .69	1.50 to 1.75
FXBB-12-SQ	FXB4-12-SQ	1	300	134,400	3.00	1.00 x .25	12.00	.56 x .69	1.50 to 1.75
FXB2B-12-SQ	FXB24-12-SQ	2	534	268,800	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
FXB3B-12-SQ	FXB34-12-SQ	3	720	403,200	3.00	1.50 x .38	12.00	.56 x .69	1.50 to 1.75
FXB4B-12-SQ	FXB44-12-SQ	4	924	537,600	3.00	1.50 x .50	12.00	.56 x .69	1.50 to 1.75
FXBC-12-SQ	FXB5-12-SQ	1	335	168,000	3.00	1.50 x .19	12.00	.56 x .69	1.50 to 1.75
FXB2C-12-SQ	FXB25-12-SQ	2	596	336,000	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
FXB3C-12-SQ	FXB35-12-SQ	3	804	504,000	3.00	1.50 x .34	12.00	.56 x .69	1.50 to 1.75
FXB4C-12-SQ	FXB45-12-SQ	4	1032	672,000	3.00	1.50 x .50	12.00	.56 x .69	1.50 to 1.75
FXBD-12-SQ	FXB6-12-SQ	1	360	201,600	3.00	1.38 x .25	12.00	.56 x .69	1.50 to 1.75
FXB2D-12-SQ	FXB26-12-SQ	2	641	403,200	3.00	1.50 x .41	12.00	.56 x .69	1.50 to 1.75
FXB3D-12-SQ	FXB36-12-SQ	3	864	604,800	3.00	1.50 x .47	12.00	.56 x .69	1.50 to 1.75
FXB4D-12-SQ	FXB46-12-SQ	4	1109	806,400	3.00	1.50 x .56	12.00	.56 x .69	1.50 to 1.75
-	FXB7-12-SQ	1	400	230,400	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
-	FXB27-12-SQ	2	712	460,800	3.00	1.50 x .41	12.00	.56 x .69	1.50 to 1.75
-	FXB37-12-SQ	3	960	691,200	3.00	1.50 x .47	12.00	.56 x .69	1.50 to 1.75
-	FXB47-12-SQ	4	1232	921,600	3.00	1.50 x .56	12.00	.56 x .69	1.50 to 1.75
FXBE-12-SQ	FXB8-12-SQ	1	430	302,400	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
FXB2E-12-SQ	FXB28-12-SQ	2	765	604,800	3.00	1.50 x .50	12.00	.56 x .69	1.50 to 1.75
FXB3E-12-SQ	FXB38-12-SQ	3	1032	907,200	3.00	1.50 x .69	12.00	.56 x .69	1.50 to 1.75
FXB4E-12-SQ	FXB48-12-SQ	4	1324	1,209,600	3.00	1.50 x .88	12.00	.56 x .69	1.50 to 1.75
-	FXB9-12-SQ	1	500	307,200	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
-	FXB29-12-SQ	2	890	605,400	3.00	1.50 x .50	12.00	.56 x .69	1.50 to 1.75
-	FXB39-12-SQ	3	1200	908,100	3.00	1.50 x .69	12.00	.56 x .69	1.50 to 1.75
-	FXB49-12-SQ	4	1540	1,210,800	3.00	1.50 x .88	12.00	.56 x .69	1.50 to 1.75

*Ampere ratings are a suggested guide only. Actual values used for a given application will depend on permissible temperature rise, permissible voltage drop, number of cables together, and other conditions of service.

Ordering Information:

- “-S” suffix denotes slotted holes which are suitable for 1/2 in. or 3/8 in. mounting hardware on 1-1/2” or 1-3/4 in. hole centers
- For NEMA drilling, substitute “-N” for “-S” in catalog number suffix
- For lengths other than 12 in., change catalog number accordingly (i.e. if an 18 in. length is desired, change -12 to -18)
- Remove “-Q” from catalog number suffix for silver plated ferrules

Copper Flexible Grounding Braid Connectors

Type GFXB

- Manufactured from flexible pure copper for high conductivity
- Both braid and ferrules are tin plated to protect against corrosion
- Inside ends of seamless pure copper ferrules are chamfered to prevent strand degradation
- Ideally suitable for use wherever it is necessary to take up expansion and provide a reliable ground connection
- Sizes/combinations not shown below and special drilling can be provided upon request

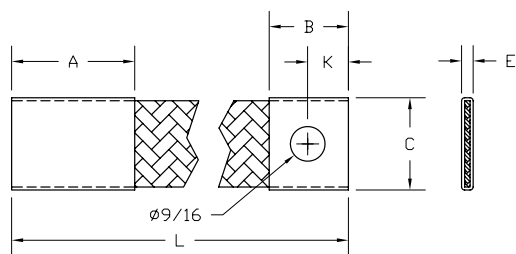
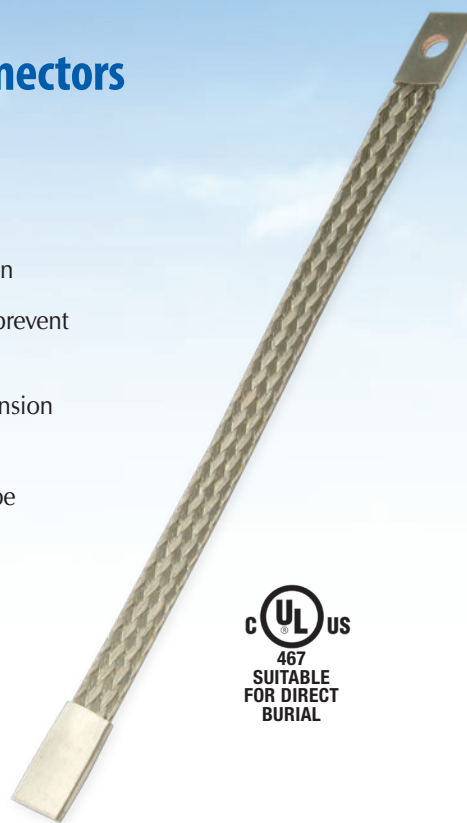


FIG. 1

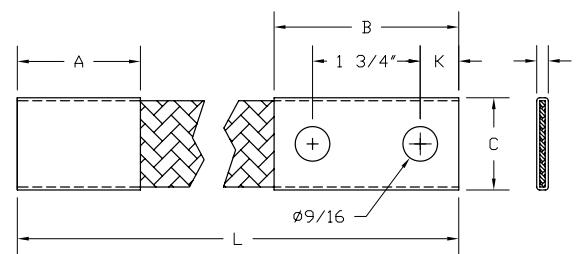


FIG. 2

CATALOG NUMBER	AMPERAGE RATINGS	CIRCULAR MILS.	FIG. NO.	APPROXIMATE DIMENSIONS (IN.)					
				A	B	C	E	K	L
GFXB3-24-S1	190	76,800	1	2.00	1.50	1.00	.13	.75	24.00
GFXB3-24-D1	190	76,800	2	2.00	3.00	1.00	.13	.63	
GFXB5-24-S1	335	168,000	1	2.00	1.50	1.50	.19	.75	
GFXB5-24-D1	335	168,000	2	2.00	3.00	1.50	.19	.63	
GFXB5-24-S	335	168,000	1	3.00	1.50	1.50	.19	.75	
GFXB5-24-D	335	168,000	2	3.00	3.00	1.50	.19	.63	

Ordering Information:

- If different ferrule dimensions are desired, consult factory
- For lengths other than 24 in., change catalog number accordingly

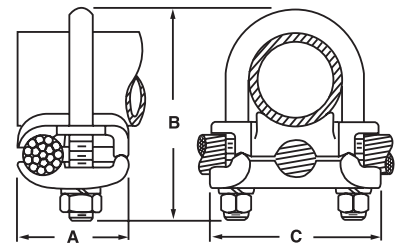
Bronze Ground Clamp Connectors

Type GPL

- Clamp is manufactured from high copper content alloy
- Used to connect copper ground conductor to water pipe, rod, or structured tube
- Furnished with silicon bronze u-bolt, nuts, and lockwashers for corrosion resistance
- Clamp design allows ground conductor to run parallel to pipe or to be installed at a right angle for grounding several parallel pipes
- Suitable for direct burial in earth or concrete
- Single wrench installation
- UL 467 listed



CATALOG NUMBER	ACCOMMODATES		CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
	ROD	IPS		A	B	C	
GPL-1*	1/2	1/4	8 Sol. - 4 Str.	1.38	2.50	1.88	3/8
GPL-2*			4 Sol. - 2/0 Str.	1.63	2.50	1.88	3/8
GPL-3*			2/0 Sol. - 250 kcmil	1.88	2.50	1.88	3/8
GPL-4	5/8 or 3/4	3/8	8 Sol. - 4 Str.	1.38	2.75	2.00	3/8
GPL-5			4 Sol. - 2/0 Str.	1.63	2.75	2.00	3/8
GPL-6			2/0 Sol. - 250 kcmil	1.88	2.75	2.00	3/8
GPL-7•	5/8 or 1	3/8 or 3/4	300 - 500 kcmil	2.25	3.50	2.38	1/2
GPL-8	7/8 or 1	1/2 or 3/4	8 Sol. - 4 Str.	1.38	2.63	2.38	3/8
GPL-9			4 Sol. - 2/0 Str.	1.63	3.31	2.38	3/8
GPL-10			2/0 Sol. - 250 kcmil	1.88	3.31	2.38	3/8
GPL-12•			500 - 750 kcmil	2.63	3.75	2.75	1/2
GPL-13•			750 - 1000 kcmil	3.00	4.00	3.50	1/2
GPL-14			-	1	8 Sol. - 4 Str.	1.38	2.75
GPL-15	4 Sol. - 2/0 Str.	1.63			2.75	2.63	3/8
GPL-16	2/0 Sol. - 250 kcmil	1.88			3.25	2.63	3/8
GPL-17•	300 - 500 kcmil	2.38			4.50	3.00	1/2
GPL-18•	500 - 750 kcmil	2.63			4.50	3.00	1/2
GPL-19•	750 - 1000 kcmil	3.00			4.75	3.50	1/2
GPL-20	-	1 1/4	8 Sol. - 4 Str.	1.38	3.50	3.00	3/8
GPL-21			4 Sol. - 2/0 Str.	1.63	3.50	3.00	3/8
GPL-22			2/0 Sol. - 250 kcmil	1.88	3.50	3.00	3/8
GPL-23•			300 - 500 kcmil	2.38	4.25	3.38	1/2
GPL-24•			500 - 750 kcmil	2.75	5.00	3.75	1/2
GPL-25•			750 - 1000 kcmil	3.00	5.50	4.25	1/2
GPL-26	-	1 1/2	8 Sol. - 4 Str.	1.38	4.00	3.25	3/8
GPL-27			4 Sol. - 2/0 Str.	1.63	4.00	3.25	3/8
GPL-28			2/0 Sol. - 250 kcmil	1.88	4.00	3.25	3/8
GPL-29•			300 - 500 kcmil	2.38	4.63	3.63	1/2
GPL-30•			500 - 750 kcmil	2.75	5.25	4.00	1/2
GPL-31•			750 - 1000 kcmil	3.00	5.75	4.50	1/2

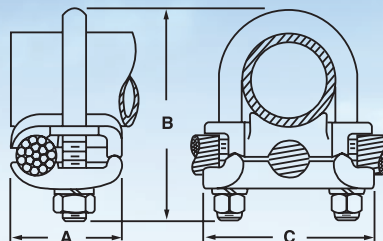


* Not UL listed for 1/4" pipe

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

GROUNDING CONNECTORS

Bronze Ground Clamp Connectors Type GPL (continued)



CATALOG NUMBER	ACCOMMODATES		CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
	ROD	IPS		A	B	C	
GPL-32	-	2	8 Sol. - 4 Str.	1.38	4.25	3.75	3/8
GPL-33			4 Sol. - 2/0 Str.	1.63	4.25	3.75	3/8
GPL-34			2/0 Sol. - 250 kcmil	1.88	4.25	3.75	3/8
GPL-35•			300 - 500 kcmil	2.38	5.25	4.00	1/2
GPL-36•			500 - 750 kcmil	2.75	5.50	4.50	1/2
GPL-37•			750 - 1000 kcmil	3.00	6.00	5.00	1/2
GPL-38	-	2 1/2	8 Sol. - 4 Str.	1.38	5.00	4.25	3/8
GPL-39			4 Sol. - 2/0 Str.	1.63	5.00	4.25	3/8
GPL-40			2/0 Sol. - 250 kcmil	1.88	5.00	4.25	3/8
GPL-41			300 - 500 kcmil	2.38	5.63	4.25	1/2
GPL-42			500 - 750 kcmil	2.75	6.00	5.00	1/2
GPL-43			750 - 1000 kcmil	3.00	6.50	5.50	1/2
GPL-44	-	3	8 Sol. - 4 Str.	1.38	5.50	4.75	3/8
GPL-45			4 Sol. - 2/0 Str.	1.63	5.50	4.75	3/8
GPL-46			2/0 Sol. - 250 kcmil	1.88	5.50	4.75	3/8
GPL-47•			300 - 500 kcmil	2.38	6.25	5.25	1/2
GPL-48•			500 - 750 kcmil	2.75	6.75	5.50	1/2
GPL-49•			750 - 1000 kcmil	3.00	7.25	6.00	1/2
GPL-50	-	3 1/2	8 Sol. - 4 Str.	1.38	6.25	5.25	3/8
GPL-51			4 Sol. - 2/0 Str.	1.63	6.25	5.25	3/8
GPL-52			2/0 Sol. - 250 kcmil	1.88	6.25	5.25	3/8
GPL-53•			300 - 500 kcmil	2.38	6.75	5.75	1/2
GPL-54•			500 - 750 kcmil	2.75	7.25	6.00	1/2
GPL-55•			750 - 1000 kcmil	3.00	8.00	6.50	1/2
GPL-56	-	4	8 Sol. - 4 Str.	1.38	6.38	5.75	3/8
GPL-57			4 Sol. - 2/0 Str.	1.63	6.38	5.75	3/8
GPL-58			2/0 Sol. - 250 kcmil	1.88	6.38	5.75	3/8
GPL-59•			300 - 500 kcmil	2.38	6.75	6.25	1/2
GPL-60•			500 - 750 kcmil	2.75	8.00	6.50	1/2
GPL-61•			750 - 1000 kcmil	3.00	8.50	7.00	1/2
GPL-68	-	5	8 Sol. - 4 Str.	1.38	6.38	6.75	3/8
GPL-69			4 Sol. - 2/0 Str.	1.53	5.63	6.81	3/8
GPL-70			2/0 Sol. - 250 kcmil	1.88	6.13	6.81	3/8
GPL-71•			300 - 500 kcmil	2.31	6.13	7.13	1/2
GPL-75	-	6	4 Sol. - 2/0 Str.	1.53	5.88	7.88	3/8
GPL-76			2/0 Sol. - 250 kcmil	1.88	7.13	7.81	3/8
GPL-77•			300 - 500 kcmil	2.31	6.19	8.19	1/2
GPL-87	-	8	4 Sol. - 2/0 Str.	1.53	7.13	9.88	3/8

* Not UL listed for 1/4" pipe

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

Bronze Ground Clamp Connectors

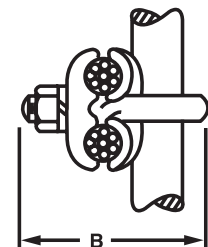
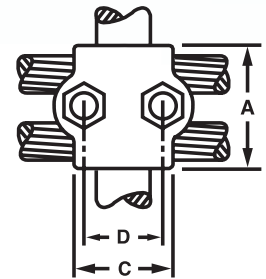
Type GT

- Clamp is manufactured from high copper content alloy
- Used to connect a range of parallel conductors perpendicular to rod, water pipe, or structured tube
- Furnished with silicon bronze bolt, nuts, and lockwashers for corrosion resistance
- Use one groove for run and other for tap to equipment
- Suitable for direct burial in earth or concrete
- Single wrench installation
- UL 467 listed

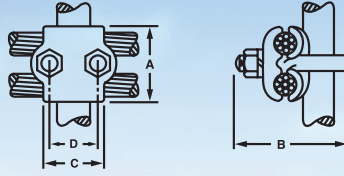


CATALOG NUMBER	ACCOMMODATES		CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
	ROD	IPS		A	B	C	D	
GT-1	1/2	1/4	8 Sol. - 4 Str.	1.63	2.00	1.63	1.00	3/8
GT-2			4 Sol. - 2/0 Str.	2.00	2.13	1.75	1.00	3/8
GT-3			2/0 Sol. - 250 kcmil	2.50	2.25	1.88	1.00	3/8
GT-4	5/8 or 3/4	3/8	8 Sol. - 4 Str.	1.63	2.13	1.63	1.13	3/8
GT-5			4 Sol. - 2/0 Str.	2.00	2.50	1.75	1.13	3/8
GT-6			2/0 Sol. - 250 kcmil	2.50	2.63	1.88	1.13	3/8
GT-7			300 - 500 kcmil	2.75	2.75	2.00	1.13	3/8
GT-8	7/8 or 1	1/2 or 3/4	8 Sol. - 4 Str.	1.63	2.50	1.63	1.50	3/8
GT-9			4 Sol. - 2/0 Str.	2.00	3.31	1.75	1.50	3/8
GT-10			2/0 Sol. - 250 kcmil	2.50	3.31	1.88	1.50	3/8
GT-11			300 - 500 kcmil	2.75	3.00	2.00	1.50	3/8
GT-12			500 - 750 kcmil	3.13	3.75	2.25	1.63	1/2
GT-13	-	1	8 Sol. - 4 Str.	1.63	2.75	1.63	1.75	3/8
GT-14			4 Sol. - 2/0 Str.	2.00	3.00	1.75	1.75	3/8
GT-15			2/0 Sol. - 250 kcmil	2.50	3.88	3.13	1.75	3/8
GT-16			300 - 500 kcmil	2.75	3.75	2.00	1.75	3/8
GT-17			500 - 750 kcmil	3.13	4.13	2.25	1.88	1/2
GT-18	-	1 1/4	8 Sol. - 4 Str.	1.63	3.00	1.88	2.06	3/8
GT-19			4 Sol. - 2/0 Str.	2.00	3.25	2.00	2.06	3/8
GT-20			2/0 Sol. - 250 kcmil	2.50	3.50	2.13	2.06	3/8
GT-21			300 - 500 kcmil	2.75	4.13	2.25	2.19	1/2
GT-22			500 - 750 kcmil	3.75	4.38	2.50	2.31	5/8
GT-23	750 - 1000 kcmil	4.00	4.63	2.75	2.31	5/8		
GT-24	-	1 1/2	8 Sol. - 4 Str.	1.63	3.25	2.25	2.38	3/8
GT-25			4 Sol. - 2/0 Str.	2.00	3.50	2.38	2.38	3/8
GT-26			2/0 Sol. - 250 kcmil	2.50	3.88	2.50	2.38	3/8
GT-27			300 - 500 kcmil	2.75	4.38	2.63	2.50	1/2
GT-28			500 - 750 kcmil	3.75	4.75	2.75	2.63	5/8
GT-29			750 - 1000 kcmil	4.00	5.00	2.88	2.63	5/8

• UL listing is limited to maximum wire size of 250 kcmil



GROUNDING CONNECTORS



Bronze Ground Clamp Connectors Type GT (continued)

CATALOG NUMBER	ACCOMMODATES		CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
	ROD	IPS		A	B	C	D	
GT-30	-	2	8 Sol. - 4 Str.	1.75	3.88	2.75	2.81	3/8
GT-31			4 Sol. - 2/0 Str.	2.00	4.13	2.88	2.81	3/8
GT-32			2/0 Sol. - 250 kcmil	2.63	4.25	3.00	2.81	3/8
GT-33 •			300 - 500 kcmil	2.88	4.63	3.13	2.94	1/2
GT-34 •			500 - 750 kcmil	3.75	5.25	3.25	3.06	5/8
GT-35 •			750 - 1000 kcmil	4.00	5.50	3.25	3.06	5/8
GT-36	-	2 1/2	8 Sol. - 4 Str.	1.75	4.38	3.38	3.63	3/8
GT-37			4 Sol. - 2/0 Str.	2.00	4.50	3.38	3.31	3/8
GT-38			2/0 Sol. - 250 kcmil	2.63	4.75	3.50	3.31	3/8
GT-39 •			300 - 500 kcmil	2.88	5.13	3.63	3.44	1/2
GT-40 •			500 - 750 kcmil	3.75	5.63	3.75	3.56	5/8
GT-41 •			750 - 1000 kcmil	4.00	5.75	3.75	3.56	5/8
GT-42	-	3	8 Sol. - 4 Str.	1.75	5.00	3.63	3.94	3/8
GT-43			4 Sol. - 2/0 Str.	2.00	5.25	3.75	3.94	3/8
GT-44			2/0 Sol. - 250 kcmil	2.63	5.50	3.75	3.94	3/8
GT-45 •			300 - 500 kcmil	2.88	5.88	3.88	4.06	1/2
GT-46 •			500 - 750 kcmil	3.75	6.50	4.13	4.19	5/8
GT-47 •			750 - 1000 kcmil	4.00	6.75	4.13	4.19	5/8
GT-48	-	3 1/2	8 Sol. - 4 Str.	1.75	5.50	3.88	4.44	3/8
GT-49			4 Sol. - 2/0 Str.	2.00	5.88	3.88	4.44	3/8
GT-50			2/0 Sol. - 250 kcmil	2.63	6.13	4.00	4.44	3/8
GT-51 •			300 - 500 kcmil	2.88	6.50	4.25	4.56	1/2
GT-52 •			500 - 750 kcmil	3.75	7.13	4.63	4.69	5/8
GT-53 •			750 - 1000 kcmil	4.00	7.38	4.63	4.69	5/8
GT-54 •			1250 - 1500 kcmil	4.25	7.63	4.75	4.69	5/8
GT-55	-	4	2/0 Sol. - 250 kcmil	2.63	6.50	4.75	4.94	3/8
GT-56 •			300 - 500 kcmil	2.88	7.00	5.00	5.06	1/2

• UL listing is limited to maximum wire size of 250 kcmil

Bronze Ground Clamp Connectors

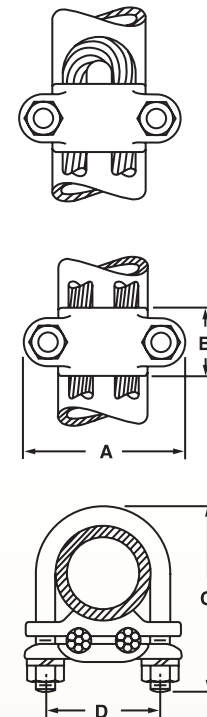
Type GU

- Clamp is manufactured from high copper content alloy
- Used to connect two parallel cables or a looped cable to water pipe or tube
- Furnished with silicon bronze bolt, nuts, and lockwashers for corrosion resistance
- Suitable for direct burial in earth or concrete
- Single wrench installation
- UL 467 listed



CATALOG NUMBER	IPS SIZE	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
			A	B	C	D	
GU-0	3/4	8 Sol. - 4 Str.	2.50	.88	2.63	1.50	3/8
GU-00		4 Sol. - 2/0 Str.	2.50	.88	2.63	1.50	3/8
GU-1	1	8 Sol. - 4 Str.	2.75	1.13	3.00	1.75	3/8
GU-2		4 Sol. - 2/0 Str.	2.75	1.13	3.25	1.75	3/8
GU-3		2/0 Sol. - 250 kcmil	2.75	1.25	3.50	1.75	3/8
GU-4	1 1/4	8 Sol. - 4 Str.	3.00	1.13	3.25	2.06	3/8
GU-5		4 Sol. - 2/0 Str.	3.00	1.25	3.50	2.06	3/8
GU-6		2/0 Sol. - 250 kcmil	3.00	1.38	3.75	2.06	3/8
GU-7	1 1/2	8 Sol. - 4 Str.	3.38	1.25	3.50	2.38	3/8
GU-8		4 Sol. - 2/0 Str.	3.38	1.38	3.63	2.38	3/8
GU-9		2/0 Sol. - 250 kcmil	3.38	1.50	3.75	2.38	3/8
GU-10	2	8 Sol. - 4 Str.	3.75	1.38	3.88	2.81	3/8
GU-11		4 Sol. - 2/0 Str.	3.75	1.38	4.13	2.81	3/8
GU-12		2/0 Sol. - 250 kcmil	3.75	1.38	4.25	2.81	3/8
GU-13		300 - 500 kcmil	4.00	1.50	4.63	2.94	1/2
GU-14	2 1/2	8 Sol. - 4 Str.	4.25	1.38	5.00	3.31	3/8
GU-15		4 Sol. - 2/0 Str.	4.25	1.38	5.13	3.31	3/8
GU-16		2/0 Sol. - 250 kcmil	4.25	1.38	5.25	3.31	3/8
GU-17		300 - 500 kcmil	4.50	1.50	5.50	3.44	1/2
GU-18	3	500 - 750 kcmil	4.50	1.50	5.75	3.44	1/2
GU-19		8 Sol. - 4 Str.	5.00	1.38	5.25	3.94	3/8
GU-20		4 Sol. - 2/0 Str.	5.00	1.38	5.50	3.94	3/8
GU-21		2/0 Sol. - 250 kcmil	5.00	1.38	5.75	3.94	3/8
GU-22	3 1/2	300 - 500 kcmil	5.25	1.50	6.00	4.06	1/2
GU-23		500 - 750 kcmil	5.50	1.75	6.38	4.19	5/8
GU-25		8 Sol. - 4 Str.	5.50	1.50	6.00	4.44	3/8
GU-26	4	4 Sol. - 2/0 Str.	5.50	1.50	6.13	4.44	3/8
GU-27		2/0 Sol. - 250 kcmil	5.50	1.50	6.25	4.44	3/8
GU-28		300 - 500 kcmil	5.75	1.75	6.38	4.56	1/2
GU-29		500 - 750 kcmil	6.00	1.88	6.63	4.69	5/8
GU-30		750 - 1000 kcmil	6.00	2.13	7.00	4.69	5/8
GU-31	4	8 Sol. - 4 Str.	6.00	1.50	6.50	4.94	3/8
GU-32		4 Sol. - 2/0 Str.	6.00	1.50	6.75	4.94	3/8
GU-33		2/0 Sol. - 250 kcmil	6.00	1.63	7.00	4.94	3/8
GU-34		300 - 500 kcmil	6.25	1.63	7.25	5.06	1/2
GU-35		500 - 750 kcmil	6.50	1.88	7.50	5.19	5/8
GU-36		750 - 1000 kcmil	6.50	2.13	7.75	5.19	5/8
GU-37		1200 - 1500 kcmil	6.50	2.38	8.13	5.19	5/8

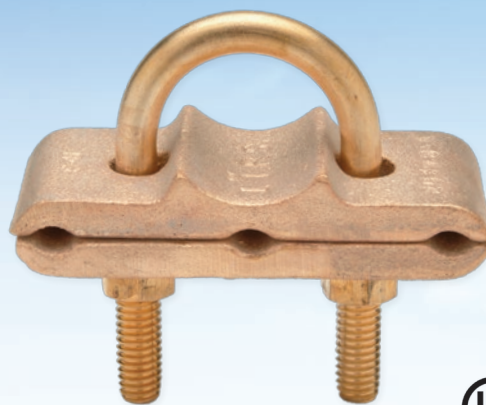
• UL listing is limited to a maximum wire size of 250 kcmil



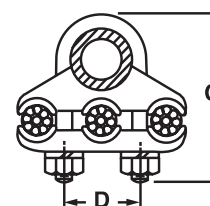
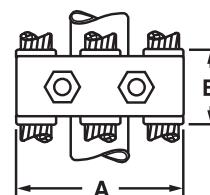
Bronze Ground Clamp Connectors

Type GR

- Manufactured from high copper content alloy
- Used to connect three equal size cables to rod, water pipe, or structured tube
- Furnished with silicon bronze bolt, nuts, and lockwashers for corrosion resistance
- Suitable for direct burial in earth or concrete
- Single wrench installation
- UL 467 listed



CATALOG NUMBER	ACCOMMODATES		CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
	ROD	IPS		A	B	C	D	
GR-1	1/2	1/4	8 Sol. - 4 Str.	2.50	1.50	2.25	1.00	3/8
GR-2			4 Sol. - 2/0 Str.	3.00	1.50	2.50	1.00	3/8
GR-3			2/0 Sol. - 250 kcmil	3.63	1.50	2.75	1.00	3/8
GR-4	5/8 or 3/4	3/8	8 Sol. - 4 Str.	2.75	1.50	2.50	1.13	3/8
GR-5			4 Sol. - 2/0 Str.	3.00	1.50	2.75	1.13	3/8
GR-6			2/0 Sol. - 250 kcmil	3.50	1.63	3.00	1.13	3/8
GR-7			300 - 500 kcmil	4.00	1.63	3.25	1.13	1/2
GR-8	7/8 or 1	1/2 or 3/4	8 Sol. - 4 Str.	2.88	1.50	3.00	1.50	3/8
GR-9			4 Sol. - 2/0 Str.	3.50	1.50	3.31	1.50	3/8
GR-10			2/0 Sol. - 250 kcmil	3.88	1.63	3.38	1.50	1/2
GR-11			300 - 500 kcmil	4.38	1.63	3.50	1.50	1/2
GR-12			500 - 750 kcmil	5.00	1.75	4.00	1.63	1/2
GR-13	-	1	8 Sol. - 4 Str.	3.25	1.50	3.00	1.75	3/8
GR-14			4 Sol. - 2/0 Str.	3.63	1.50	3.25	1.75	3/8
GR-15			2/0 Sol. - 250 kcmil	4.13	1.63	3.50	1.75	3/8
GR-16			300 - 500 kcmil	4.50	1.63	3.75	1.75	1/2
GR-17			500 - 750 kcmil	5.13	1.75	4.25	1.88	1/2
GR-18			750 - 1000 kcmil	5.50	1.75	4.50	1.88	1/2
GR-19	-	1 1/4	8 Sol. - 4 Str.	3.50	1.50	3.50	2.06	3/8
GR-20			4 Sol. - 2/0 Str.	4.00	1.50	3.75	2.06	3/8
GR-21			2/0 Sol. - 250 kcmil	4.50	1.63	3.88	2.06	3/8
GR-22			300 - 500 kcmil	5.13	1.75	4.38	2.19	1/2
GR-23			500 - 750 kcmil	5.75	2.00	5.13	2.31	5/8
GR-24	750 - 1000 kcmil	6.25	2.00	5.38	2.31	5/8		
GR-25	-	1 1/2	8 Sol. - 4 Str.	3.75	1.50	3.75	2.38	3/8
GR-26			4 Sol. - 2/0 Str.	4.25	1.50	4.00	2.38	3/8
GR-27			2/0 Sol. - 250 kcmil	4.75	1.75	4.25	2.38	3/8
GR-28			300 - 500 kcmil	5.50	2.00	4.75	2.50	1/2
GR-29			500 - 750 kcmil	6.25	2.25	5.25	2.63	5/8
GR-30			750 - 1000 kcmil	6.50	2.25	5.50	2.63	5/8



• UL listing is limited to maximum wire size of 250 kcmil

Bronze Ground Clamp Connectors Type GR (continued)

CATALOG NUMBER	ACCOMMODATES		CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
	ROD	IPS		A	B	C	D	
GR-31	-	2	8 Sol. - 4 Str.	4.38	1.50	4.25	2.81	3/8
GR-32			4 Sol. - 2/0 Str.	4.88	1.50	4.50	2.81	3/8
GR-33			2/0 Sol. - 250 kcmil	5.25	1.75	5.00	2.81	1/2
GR-34 •			300 - 500 kcmil	5.75	2.00	5.00	2.94	1/2
GR-35 •			500 - 750 kcmil	6.63	2.25	5.75	3.06	1/2
GR-36 •			750 - 1000 kcmil	7.00	2.25	6.00	3.06	5/8
GR-37	-	2 1/2	8 Sol. - 4 Str.	4.88	1.50	4.63	3.31	3/8
GR-38			4 Sol. - 2/0 Str.	5.38	1.50	5.00	3.31	3/8
GR-39			2/0 Sol. - 250 kcmil	5.88	1.75	5.25	3.31	1/2
GR-40 •			300 - 500 kcmil	6.50	2.00	5.75	3.44	1/2
GR-41 •			500 - 750 kcmil	7.25	2.25	6.25	3.56	5/8
GR-42 •			750 - 1000 kcmil	7.50	2.25	6.50	3.56	5/8
GR-43	-	3	8 Sol. - 4 Str.	5.50	1.50	5.25	3.94	3/8
GR-44			4 Sol. - 2/0 Str.	6.00	1.50	5.63	3.94	3/8
GR-45			2/0 Sol. - 250 kcmil	6.38	1.75	5.75	3.94	1/2
GR-46 •			300 - 500 kcmil	6.88	2.00	6.25	4.06	1/2
GR-47 •			500 - 750 kcmil	7.50	2.25	6.63	4.19	5/8
GR-48 •			750 - 1000 kcmil	8.13	2.25	6.88	4.19	5/8
GR-49	-	3 1/2	8 Sol. - 4 Str.	6.00	1.50	5.63	4.44	3/8
GR-50			4 Sol. - 2/0 Str.	6.38	1.50	5.88	4.44	1/2
GR-51			2/0 Sol. - 250 kcmil	6.75	1.75	6.38	4.44	1/2
GR-60	-	4	8 Sol. - 4 Str.	6.38	1.50	6.38	4.94	3/8
GR-61			4 Sol. - 2/0 Str.	6.69	1.50	6.38	4.94	1/2
GR-62			2/0 Sol. - 250 kcmil	7.25	1.75	6.75	4.94	1/2

• UL listing is limited to maximum wire size of 250 kcmil

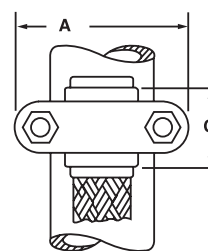
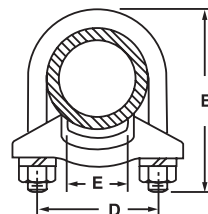
Bronze Ground Clamp Connectors

Type GO

- Clamp is manufactured from high copper content alloy
- Used to connect copper braid, cable, strap, or bar to water pipe or tube
- Furnished with silicon bronze bolt, nuts, and lockwashers for corrosion resistance
- Suitable for direct burial in earth or concrete
- Single wrench installation
- UL 467 listed



CATALOG NUMBER	IPS SIZE	APPROXIMATE DIMENSIONS (IN.)					BOLT SIZE
		A	B	C	D	E	
GO-0	3/4	2.50	2.50	1.13	1.50	1.00	3/8
GO-1	1	2.75	3.25	1.25	1.75	1.00	3/8
GO-2	1 1/4	3.00	3.50	1.38	2.06	1.00	3/8
GO-3	1 1/2	3.38	3.50	1.50	2.38	1.00	3/8
GO-4		3.38	3.50	1.50	2.38	1.50	3/8
GO-4A		3.38	3.50	1.50	2.38	2.00	1/2
GO-5	2	3.75	4.25	1.50	2.81	1.00	3/8
GO-6		3.75	4.25	1.50	2.81	1.50	3/8
GO-7		4.00	4.38	1.75	2.94	2.00	1/2
GO-7A	2 1/2	4.50	5.00	1.75	3.44	1.50	1/2
GO-8		4.50	5.00	1.88	3.44	2.00	1/2
GO-9		4.50	5.00	2.00	3.44	2.50	1/2
GO-10	3	5.25	6.25	2.00	4.06	2.00	1/2
GO-11		5.25	6.25	2.00	4.06	2.50	1/2
GO-12		5.25	6.25	2.00	4.06	3.00	1/2
GO-13	3 1/2	5.75	5.88	2.25	4.56	2.00	1/2
GO-14		5.75	5.88	2.25	4.56	2.50	1/2
GO-15		5.75	5.88	2.25	4.56	3.00	1/2
GO-16	4	6.25	6.50	2.25	5.06	2.00	1/2
GO-17		6.25	6.50	2.38	5.06	2.50	1/2
GO-18		6.25	6.50	2.50	5.06	3.00	1/2
GO-19		6.25	6.50	2.75	5.06	3.50	1/2



Bronze Ground Beam Clamps

Types GBC and GBCH

- Clamp is manufactured from high strength, corrosion resistant copper alloy
- Used to ground trailer frames, cable trays, telephone and CATV pedestals
- Design allows copper ground wire installation from four directions
- 7/16" hex head bolt installs with cam-wrench, socket, or crescent wrench
- Square head bolt installs with pliers when tighter connection is needed
- UL 467 listed



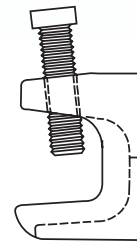
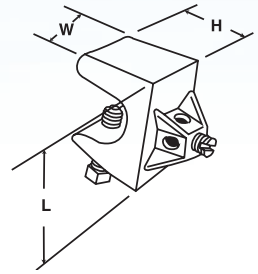
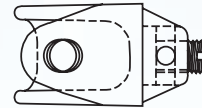
Type GBC



Type GBCH



CATALOG NUMBER	CONDUCTOR RANGE	BEAM BOLT	APPROXIMATE DIMENSIONS (IN.)		
			L	W	H
GBC-6	6 Sol. - 14 Sol.	Square HD 5/16 - 18	1.63	1.00	1.19
GBCH-6		Hex HD 5/16 - 18			

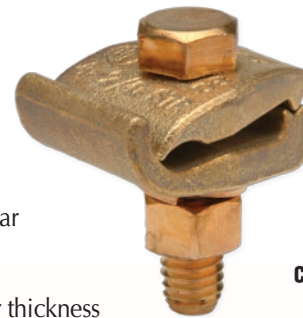


SLOTTED SET SCREW

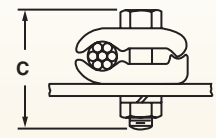
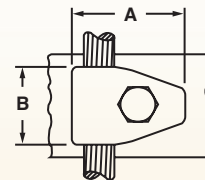
Bronze Ground Clamp Connectors

Type GM

- Clamp is manufactured from high copper content alloy
- Designed to clamp a single copper conductor to a flat surface or 1/4" thick bus bar
- Furnished with silicon bronze bolt, nut, and lockwasher for corrosion resistance
- Standard catalog items accommodate 1/4" bar; for other applications, specify bar thickness
- Suitable for direct burial in earth or concrete
- UL 467 listed



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
		A	B	C	
GM-1	8 Sol. - 4 Str.	1.25	1.00	1.63	3/8
GM-2	4 Sol. - 2/0 Str.	1.63	1.13	1.75	3/8
GM-3	2/0 Sol. - 250 kcmil	2.13	1.50	2.00	1/2
GM-4+	300 - 500 kcmil	2.38	1.63	2.50	1/2
GM-5+	500 - 750 kcmil	3.00	1.75	3.00	5/8
GM-6+	750 - 1000 kcmil	3.50	1.88	3.13	5/8



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

Bronze Ground Clamp Connectors

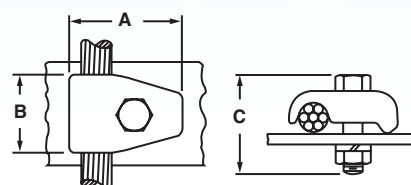
Type GMS

- Clamp is manufactured from high copper content alloy
- Designed to clamp a single copper conductor to flat a surface or 1/4" thick bus bar
- Furnished with silicon bronze bolt, nut, and lockwasher for corrosion resistance
- Standard catalog items accommodate 1/4" bar; for other applications, specify bar thickness
- Suitable for direct burial in earth or concrete
- UL 467 listed



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
		A	B	C	
GMS-1	8 Sol. - 4 Str.	1.25	1.00	1.63	3/8
GMS-2	4 Sol. - 2/0 Str.	1.63	1.13	1.75	3/8
GMS-3	2/0 Sol. - 250 kcmil	2.13	1.50	2.00	1/2
GMS-4*	300 - 500 kcmil	2.38	1.63	2.50	1/2
GMS-5*	500 - 750 kcmil	3.00	1.75	3.00	5/8
GMS-6*	750 - 1000 kcmil	3.50	1.88	3.13	5/8

* UL listing is limited to a maximum wire size of 250 kcmil



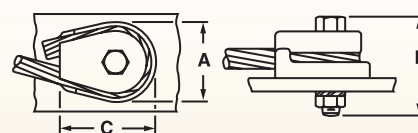
Bronze Ground Clamp Connectors

Type GWL

- Clamp is manufactured from high copper content alloy
- Designed to clamp a single copper conductor to flat a surface or 1/4" thick bus bar
- Furnished with silicon bronze bolt, nut, and lockwasher for corrosion resistance
- Conductor is gripped by looping around the clamping bolt in connector groove
- Standard catalog items accommodate 1/4" bar; for other applications, specify bar thickness
- Suitable for direct burial in earth or concrete
- UL 467 listed



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
		A	B	C	
GWL-1	8 Str. - 4 Str.	1.13	1.50	1.38	3/8
GWL-2		1.75	1.75	1.88	1/2
GWL-3	3 Str. - 2/0 Str.	1.69	2.00	1.88	3/8
GWL-4		1.81	2.13	1.88	1/2
GWL-5	3/0 Str. - 250 kcmil	2.25	2.25	2.38	3/8
GWL-6		2.25	2.38	2.38	1/2
GWL-7		2.25	2.50	2.38	5/8



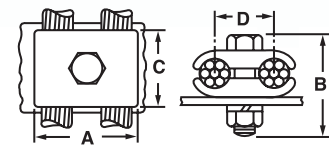
Bronze Ground Clamp Connectors

Type GH

- Clamp is manufactured from high copper content alloy
- Designed to clamp two copper conductors to a flat surface or 1/4" thick bus bar
- Furnished with silicon bronze bolt, nut, and lockwasher for corrosion resistance
- Standard catalog items accommodate 1/4" bar; for other applications, specify bar thickness
- Suitable for direct burial in earth or concrete
- UL 467 listed

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
		A	B	C	D	
GH-1	8 Sol. - 4 Str.	1.25	1.50	1.38	.75	3/8
GH-2	4 Sol. - 2/0 Str.	1.50	2.00	1.63	1.00	3/8
GH-3	2/0 Sol. - 250 kcmil	2.00	2.25	1.75	1.25	1/2
GH-4	300 - 500 kcmil	2.50	2.88	2.00	1.50	1/2
GH-5	500 - 750 kcmil	3.25	3.38	2.38	1.75	5/8
GH-6	750 - 1000 kcmil	3.63	3.75	2.50	2.00	5/8
GH-7	1000 - 1250 kcmil	4.00	4.00	2.75	2.25	5/8

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



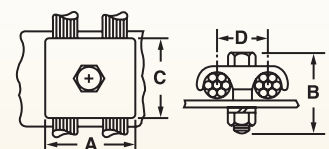
Bronze Ground Clamp Connectors

Type GHS

- Clamp is manufactured from high copper content alloy
- Designed to clamp two copper conductors to a flat surface or 1/4" thick bus bar
- Furnished with silicon bronze bolt, nut, and lockwasher for corrosion resistance
- Standard catalog items accommodate 1/4" bar; for other applications, specify bar thickness
- Suitable for direct burial in earth or concrete
- UL 467 listed

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
		A	B	C	D	
GHS-1	8 Sol. - 4 Str.	1.25	1.38	1.38	.75	3/8
GHS-2	4 Sol. - 2/0 Str.	1.50	1.50	1.63	1.00	3/8
GHS-3	2/0 Sol. - 250 kcmil	2.00	1.88	1.75	1.25	1/2
GHS-4	300 - 500 kcmil	2.50	2.38	2.00	1.50	1/2
GHS-5	500 - 750 kcmil	3.25	2.75	2.38	1.75	5/8
GHS-6	750 - 1000 kcmil	3.63	2.88	2.50	2.00	5/8
GHS-7	1000 - 1250 kcmil	4.00	3.00	2.75	2.25	5/8

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



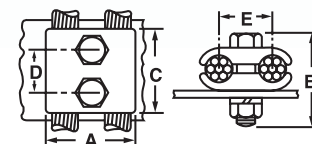
Bronze Ground Clamp Connectors

Type GJ

- Clamp is manufactured from high copper content alloy
- Designed to clamp two copper conductors to a flat surfaces or 1/4" thick bus bar
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Standard catalog items accommodate 1/4" bar; for other applications, specify bar thickness
- Suitable for direct burial in earth or concrete
- UL 467 listed



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					BOLT SIZE
		A	B	C	D	E	
GJ-1	8 Sol. - 4 Str.	1.25	1.50	2.00	.94	.75	3/8
GJ-2	4 Sol. - 2/0 Str.	1.50	2.00	2.00	1.00	1.00	3/8
GJ-3	2/0 Sol. - 250 kcmil	2.00	2.25	2.50	1.31	1.31	1/2
GJ-4	300 - 500 kcmil	2.50	2.88	2.50	1.38	1.50	1/2
GJ-5	500 - 750 kcmil	3.25	3.38	3.00	1.56	1.75	5/8
GJ-6	750 - 1000 kcmil	3.63	3.75	3.00	1.56	2.00	5/8
GJ-7	1000 - 1200 kcmil	4.00	4.00	3.50	1.75	2.25	5/8



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

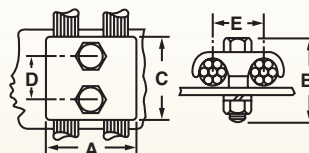
Bronze Ground Clamp Connectors

Type GJS

- Clamp is manufactured from high copper content alloy
- Designed to clamp two copper conductors to a flat surface or 1/4" thick bus bar
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Standard catalog items accommodate 1/4" bar; for other applications, specify bar thickness
- Suitable for direct burial in earth or concrete
- UL 467 listed



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					BOLT SIZE
		A	B	C	D	E	
GJS-1	8 Sol. - 4 Str.	1.25	1.38	2.00	.94	.75	3/8
GJS-2	4 Sol. - 2/0 Str.	1.50	1.50	2.00	1.00	1.00	3/8
GJS-3	2/0 Sol. - 250 kcmil	2.00	1.88	2.50	1.31	1.31	1/2
GJS-4	300 - 500 kcmil	2.50	2.38	2.50	1.38	1.50	1/2
GJS-5	500 - 750 kcmil	3.25	2.75	3.00	1.56	1.75	5/8
GJS-6	750 - 1000 kcmil	3.63	2.88	3.00	1.56	2.00	5/8
GJS-7	1000 - 1250 kcmil	4.00	3.00	3.50	1.75	2.25	5/8



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

**NEW
PRODUCT**

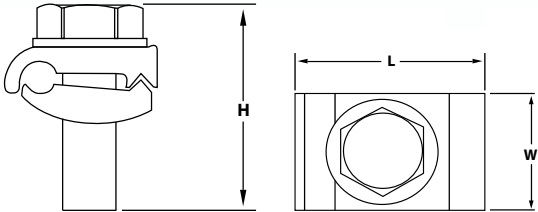
Bronze Ground Clamp Connectors - Rebar

Type KR-DB

- Manufactured from high strength cast copper alloy
- For use in harsh environments such as swimming pools, spas, agriculture, food processing, marine, communication grids, and others
- Lay in features allow continuous loop wiring
- Installs quickly, grips rebar between ridges and special teeth
- All hardware is stainless steel
- Suitable for direct burial in earth or concrete
- cULus 467 listed



CATALOG NUMBER	REBAR SIZE	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)		
		MIN.	MAX.	L	W	H
KR-3-DB	3/8"	8 Sol.	6 Sol.	1.14	.74	1.50
KR-4-DB	1/2"	8 Sol.	4 Str.	1.35	.83	1.50



Bronze Universal Parallel Groove Clamp Connectors

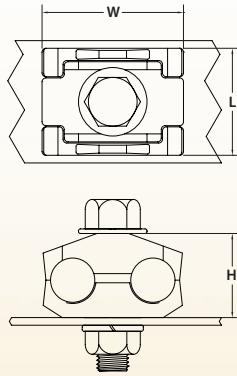
Type UCR

- Manufactured from high strength bronze alloy
- Designed to clamp two copper conductors to flat surface or bus bar
- Furnished with silicon bronze hardware
- Accommodates a wide conductor range in both grooves
- Interlocking design ensures proper conductor alignment



CATALOG NUMBER	CONDUCTOR RANGE (EITHER GROOVE)	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
		L	W	H	
UCR-013	8 Sol. - 2/0 Str.	1.25	1.75	1.06	3/8
UCR-030	1/0 Sol. - 300 kcmil	1.75	2.31	1.38	1/2
UCR-050	250 - 500 kcmil	2.00	2.75	1.63	1/2
*UCR-075	300 - 750 kcmil	3.50	3.13	2.13	1/2

* Two bolts



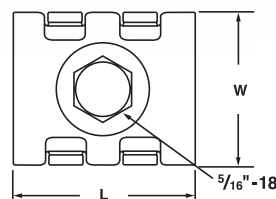
Bronze Jumper Clamp Connectors

Type JC

- Manufactured from high strength copper alloy
- Designed for use as a ground connector in CATV and telecom installations
- Furnished with silicon bronze hex washer head bolt
- Interlocking design ensures proper conductor alignment
- Single wrench installation
- Available tin plated, unplated, or with plating in one groove



CATALOG NUMBER	CONDUCTOR RANGE	FINISH OF GROOVES	BOLT MATERIAL	APPROXIMATE DIMENSIONS (IN.)	
				L	W
JC-1-AC†	6 Sol. - 1/0 Str.	1-Groove Tin Plated	Steel	1.13	1.31
JC-UL-AC	6 Sol. - 1/4, 5/16 Guy	1-Groove Bronze	Silicon Bronze		
JC-2-AA †	6 Sol. - 1/0 Str.	Tin Plated	Steel		
JC-UL	6 Sol. - 1/4, 5/16 Guy		Silicon Bronze		
JC-3-CC †	6 Sol. - 1/0 Str.	Bronze	Steel		
JC-UL-CC	6 Sol. - 1/4, 5/16 Guy		Silicon Bronze		



- RUS accepted
- † Not UL listed

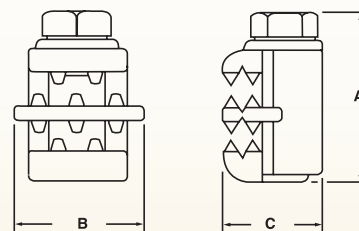
Insulation Piercing Vise Style Parallel Connectors

Type MGC

- Manufactured from high strength bronze alloy
- Designed for use on self-supporting Rural, Figure 8, or IM type telephone cable to connect the messenger to the ground wire
- Tin plated for maximum conductivity and corrosion resistance
- Stainless steel bolt for corrosion resistance
- Insulation piercing teeth eliminate the need for wire stripping



CATALOG NUMBER	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
	MESSANGER CABLE SIZE	TAP	A	B	C	
MGC-167	.146" - .312"	8 Str. - 4 Str. (.146" - .232" dia.)	1.63	1.25	1.00	5/16-18 1/2 HEX
MGC-167 9/16	.146" - .312"	8 Str. - 4 Str. (.146" - .232" dia.)				5/16-24 9/16 HEX



Vise Style Parallel Connectors

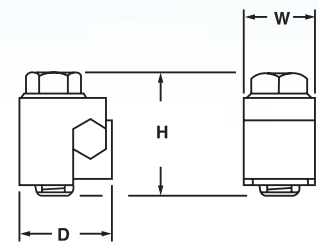
Type FF

- Body and clamp are manufactured from high strength bronze alloy
- Silicon bronze washer head bolt
- Designed to be used as a copper to copper grounding splice or tap connection in utility, telecom, CATV, and residential applications
- Non-swiveling design with full thread engagement
- UL 467 listed



CATALOG NUMBER	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE	HEX SIZE ACROSS FLATS
	MAXIMUM 2 CONDUCTORS	MINIMUM 2 CONDUCTORS	D	H	W		
FF-6*	6 Sol.	8 Sol.	.75	1.00	.63	1/4 - 28	3/8
FF-4	4 Str.	6 Sol.	.81	1.16	.63	5/16 - 24	9/16
FF-2	2 Str.	4 Sol.	.81	1.38	.81	5/16 - 24	9/16
FF-2/0	2/0 Str.	2 Sol.	1.13	1.88	.97	3/8 - 24	9/16
FF-4/0	4/0 Str.	1/0 Sol.	1.19	2.13	.94	3/8 - 24	9/16

* Supplied with slotted hex head bolts only



Vise Style Parallel Connectors

Types VSFC and VSMC



- Manufactured from high strength cast bronze alloy
- Designed to be used as a copper to copper grounding splice or tap in utility, telecom, and residential applications
- Stainless steel hex head bolt and flat washer

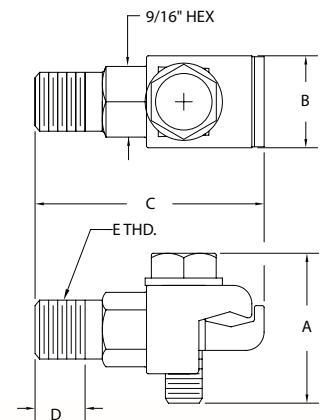


FIG. 1

CATALOG NUMBER	FIGURE NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						
			A	B	C	D	E (THD)	F	G (THD)
VSMC-8-1/0	1	8 Sol. - 1/0 Str.	1.45	.80	2.08	.50	1/2 - 13	-	-
VSMC-8-1/0-TN	1		1.45	.80	2.08	.50	1/2 - 13	-	-
VSMC-8-1/0-L	1		1.45	.80	2.50	.88	1/2 - 13	-	-
VSMC-8-1/0-L-TN	1		1.45	.80	2.50	.88	1/2 - 13	-	-
VSFC-8-1/0	2		1.45	.80	1.82	-	-	.66	3/8 - 16
VSFC-8-1/0-TN	2		1.45	.80	1.82	-	-	.66	3/8 - 16

*Suffix TN indicates commercial thick electro tin plating

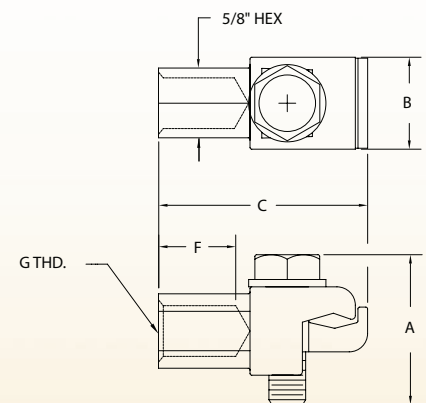
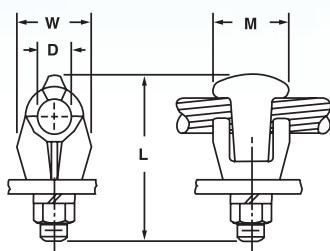


FIG. 2

Bronze Eyebolt Connectors

Types LS and LSN

- Manufactured from high strength copper alloy
- Designed to secure copper cable to flat studs, transformer spades, or copper bus
- Furnished with silicon bronze hardware for corrosion resistance
- Single wrench installation
- For tin plating, suffix catalog number with “-TN”



For 1/4" Thick Bar

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
		D	L	M	W	
LSN-2/0N	8 Sol. - 2/0 Str.	.44	2.38	1.38	1.00	1/2
LS-2/0	8 Sol. - 2/0 Str.	.44	2.00	1.25	1.00	3/8
LSN-025N	6 Sol. - 250 kcmil	.63	2.56	1.25	1.06	1/2
LSN-035N	2 Sol. - 350 kcmil	.81	3.06	1.25	1.31	1/2
LSN-050N	1/0 Sol. - 500 kcmil	.94	3.25	1.25	1.44	1/2
LSN-075	350 - 750 kcmil	1.06	3.19	1.50	1.59	1/2
LSN-100N	2/0 Sol. - 1000 kcmil	1.25	4.25	1.72	1.69	1/2

For 1/4" to 3/4" Thick Bar

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
		D	L	M	W	
LS-C1E	10 Sol. - 1 Str.	.34	2.38	1.06	.88	3/8
LSN-2/0NE	8 Sol. - 2/0 Str.	.44	2.75	1.38	1.00	1/2
LS-2/0E	8 Sol. - 2/0 Str.	.44	2.50	1.25	1.00	3/8
LSN-025NE	6 Sol. - 250 kcmil	.63	3.06	1.25	1.06	1/2
LSN-035NE	2 Sol. - 350 kcmil	.81	3.31	1.25	1.31	1/2
LSN-050NE	1/0 Sol. - 500 kcmil	.94	3.75	1.25	1.44	1/2
LSN-075E	350 - 750 kcmil	1.06	3.69	1.50	1.56	1/2
LSN-100NE	2/0 Sol. - 1000 kcmil	1.25	4.50	1.72	1.69	1/2
LS-150E	1000 - 1500 kcmil	1.50	4.38	2.25	2.50	1/2
LS-200E	500 - 2000 kcmil	1.72	5.25	2.25	2.75	1/2

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

Bronze Eyebolt Connectors

Types LD and LDN

- Manufactured from high strength copper alloy
- Designed to secure copper cable to flat studs, transformer spades, or copper bus
- Furnished with silicon bronze hardware for corrosion resistance
- Single wrench installation
- For tin plating, suffix catalog number with “-TN”

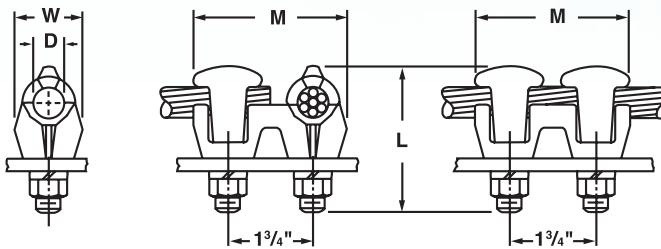
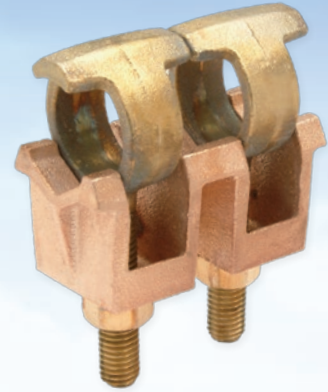


Fig. 1

Fig. 2

For 1/4" Thick Bar

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
			D	L	M	W	
LDN-2/0N	2	8 Sol. - 2/0 Str.	.44	2.31	2.81	.91	1/2
LDN-2/0N2	1	8 Sol. - 2/0 Str.	.44	2.38	3.13	1.38	
LDN-025N	2	6 Str. - 250 kcmil	.63	2.56	3.00	1.06	
LDN-025N2	1	6 Str. - 250 kcmil	.63	2.63	3.38	1.63	
LDN-035N	2	2 Sol. - 350 kcmil	.81	3.31	3.00	1.31	
LDN-050N	2	1/0 Sol. - 500 kcmil	.94	3.25	3.00	1.44	
LDN-075	2	350 - 750 kcmil	1.06	3.19	3.25	1.59	
LDN-100N	2	2/0 Sol. - 1000 kcmil	1.25	3.19	3.44	1.69	

For 1/4" to 3/4" Thick Bar

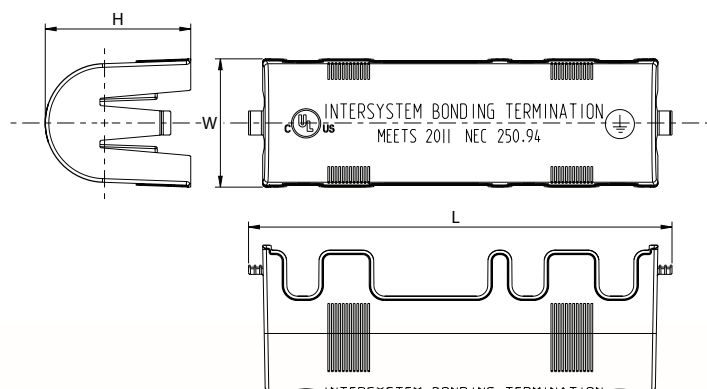
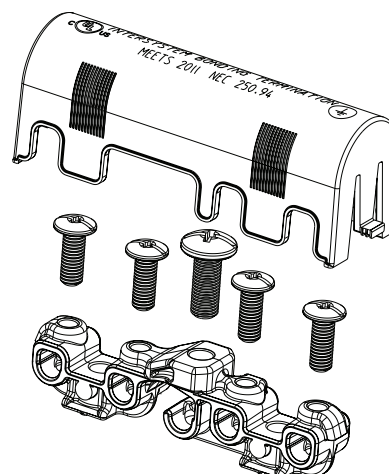
CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
			D	L	M	W	
LDN-2/0N2E	1	8 Sol. - 2/0 Str.	.44	2.88	3.13	1.38	1/2
LDN-025NE	2	6 Sol. - 250 kcmil	.63	3.06	3.00	1.06	
LDN-025N2E	1	6 Sol. - 250 kcmil	.63	3.06	3.38	1.63	
LDN-035NE	2	2 Sol. - 350 kcmil	.81	3.31	3.00	1.31	
LDN-050NE	2	1/0 Sol. - 500 kcmil	.94	3.75	3.00	1.44	
LDN-075E	2	350 - 750 kcmil	1.06	3.69	3.25	1.59	
LDN-100NE	2	2/0 Sol. - 1000 kcmil	1.25	4.06	3.44	1.69	
LD-200E	2	500 - 2000 kcmil	1.72	5.25	4.00	2.75	

"2" in suffix indicates two-way cable entrance

Intersystem Bonding Connector

Type AIBC-4

- Zinc die cast construction
- Designed to connect directly to the grounding electrode conductor providing a common single grounding point location for residential and small commercial facilities
- Meets the requirements of 2011 NEC Article 250.94, "Bonding for Other Systems"
- Listed to UL 467 for grounding and bonding
- cULus listed for installations in the USA and Canada
- Lay-in style lug and integrated mounting holes allow for easy, compact installation
- Paintable, snap-on cover is impact resistant, UV stabilized, and flame retardant for long outdoor life
- All hardware is stainless steel for maximum corrosion resistance
- Includes 4 taps (14-4 AWG) for solid or stranded conductor that allow for bonding and grounding of communication circuits, radio and television equipment, satellite systems, and CATV circuits



CATALOG NUMBER	MAIN CONDUCTOR RANGE	TAP (4) CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)		
			L	W	H
AIBC-4	6 - 2 AWG	14 - 4 AWG	4.61	1.38	1.57

Flexible Copper Braid Kits

Type FBK

- Kits contain braid made from high quality copper for maximum conductivity
- Kits include Penn-Union's Type BBLU-FL Flared Long Barrel Compression Lugs
- Braid and compression lugs are tin plated to protect against corrosion
- Woven design of braid allows for maximum flexibility
- Kits allow user to make custom flexible connections to precisely match requirements
- Eliminates the lead time associated with special orders or the use of connectors that are not ideally suited for the application
- Kits come in both small and large braid sizes



Small Flexible Copper Braid Kit

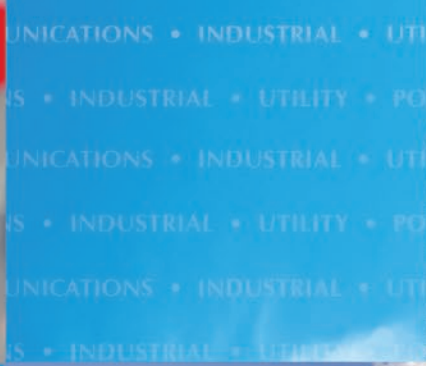
CATALOG NUMBER	BRAID LENGTH (FT.)	CRIMP CONNECTOR (QTY.) AND TYPE	INSTALLATION TOOLING				
			COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOL	PENN-UNION DIE CATALOG NO.	BURNDY DIE INDEX NO.	T&B DIE INDEX NO.
FBK-125	20.00	(20) BBLU-1/0-S-FL	Pink	TDM-250XF	T-12	12	42
125 Amp 77,184 Circular mil. braid (#1 AWG) 5/32" x 1 1/16"							

Large Flexible Copper Braid Kit

CATALOG NUMBER	BRAID LENGTH (FT.)	CRIMP CONNECTOR (QTY.) AND TYPE	INSTALLATION TOOLING				
			COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOL	PENN-UNION DIE CATALOG NO.	BURNDY DIE INDEX NO.	T&B DIE INDEX NO.
FBK-285	10.00	(10) BBLU-050-D-FL	Brown	-	T-20	20	87
285 Amp 303,912 Circular mil. braid (300 kcmil) 3/8" x 1 3/8"							



- Construction**
- Utilities**
- Power Transmission**
- Industrial**
- Telecom**
- Renewable Energy**
- Aerospace**
- Rail Systems**
- MRO**



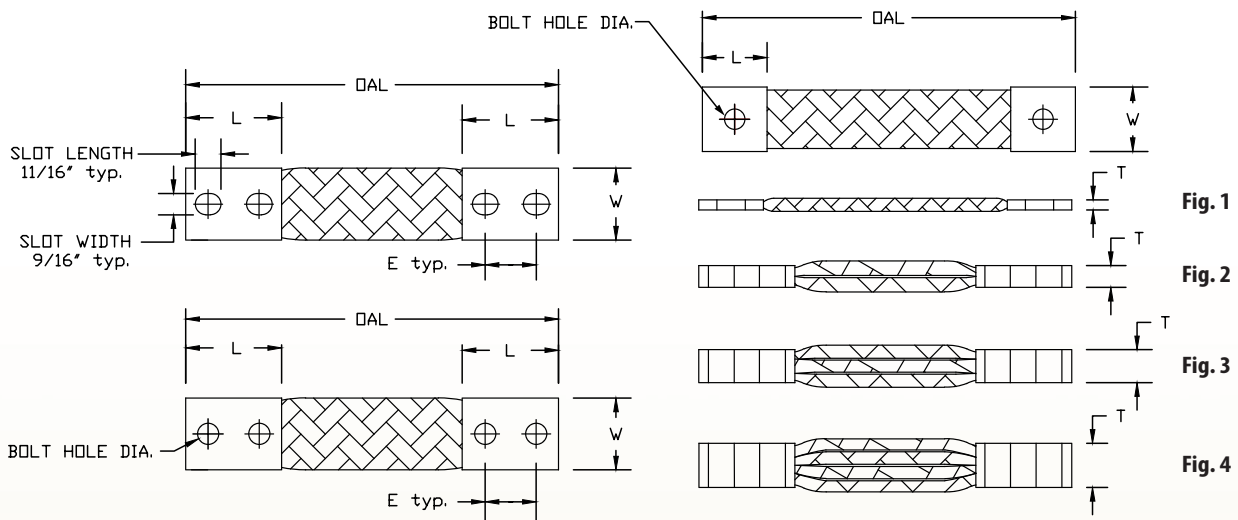
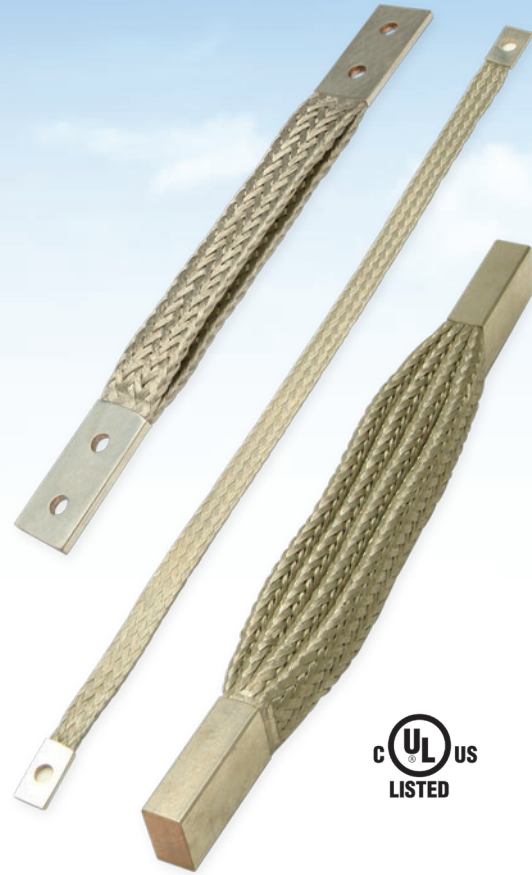
FLEXIBLE COPPER BRAID



Flexible Copper Braid Connectors

Type FXB

- Manufactured from flexible pure copper for high conductivity
- Seamless, pure copper ferrules are tin plated and cold pressed to each end
- Ideally suited for the following applications:
 - Isolation of vibration common in generator, transformer, turbine and substation installations
 - Compensation for component misalignment
 - Thermal expansion and contraction
 - Perimeter grounding and fencing
- Braid is tin plated to protect against corrosion
- Inside ends of ferrules are chamfered to prevent strand degradation
- UL listed to UL467 and certified to CSA C22.2 , No. 41 Grounding and Bonding Equipment Standards for lengths up to 48 in.
- Size/combinations not shown can be readily supplied upon request



TYPE FXB DIMENSIONS & INDEX REFERENCE

PREVIOUS CATALOG NUMBER	NEW CATALOG NUMBER	FIG. NO.	AMPERE RATING (INDOORS)*	CIRCULAR MILS	APPROXIMATE DIMENSIONS (IN.)				
					FERRULE DIMENSIONS		OVERALL LENGTH (OAL)	BOLT HOLE DIA./SLOT DIM.	E
					L	W x T			
-	FXB1-12-Q1	1	95	24,000	.75	.63 x .09	12.00	.27	-
-	FXB21-12-Q1	2	169	48,000	.75	.63 x .13	12.00	.27	-
-	FXB31-12-Q-2TC14	3	228	72,000	1.25	.63 x .16	12.00	.27	.63
-	FXB41-12-Q-2TC14	4	293	96,000	1.25	.63 x .19	12.00	.27	.63
-	FXB2-12-Q1	1	140	48,000	.75	.75 x .13	12.00	.27	-
-	FXB22-12-Q-2TC14	2	249	96,000	1.25	.75 x .17	12.00	.27	.63
-	FXB32-12-Q-2TC14	3	336	144,000	1.25	.75 x .23	12.00	.27	.63
-	FXB42-12-Q-2TC14	4	431	192,000	1.25	.75 x .28	12.00	.27	.63
FXBA-12-Q	FXB3-12-Q	1	190	76,800	2.50	1.00 x .16	12.00	.44	1.25
FXB2A-12-Q	FXB23-12-Q	2	338	153,600	2.50	1.00 x .22	12.00	.44	1.25
FXB3A-12-Q	FXB33-12-Q	3	456	230,400	2.50	1.13 x .25	12.00	.44	1.25
FXB4A-12-Q	FXB43-12-Q	4	585	307,200	2.50	1.13 x .31	12.00	.44	1.25
FXBA-12-SQ	FXB3-12-SQ	1	190	76,800	3.00	1.00 x .16	12.00	.56 x .69	1.50 to 1.75
FXB2A-12-SQ	FXB23-12-SQ	2	338	153,600	3.00	1.00 x .22	12.00	.56 x .69	1.50 to 1.75
FXB3A-12-SQ	FXB33-12-SQ	3	456	230,400	3.00	1.13 x .25	12.00	.56 x .69	1.50 to 1.75
FXB4A-12-SQ	FXB43-12-SQ	4	585	307,200	3.00	1.13 x .31	12.00	.56 x .69	1.50 to 1.75
FXBB-12-SQ	FXB4-12-SQ	1	300	134,400	3.00	1.00 x .25	12.00	.56 x .69	1.50 to 1.75
FXB2B-12-SQ	FXB24-12-SQ	2	534	268,800	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
FXB3B-12-SQ	FXB34-12-SQ	3	720	403,200	3.00	1.50 x .38	12.00	.56 x .69	1.50 to 1.75
FXB4B-12-SQ	FXB44-12-SQ	4	924	537,600	3.00	1.50 x .50	12.00	.56 x .69	1.50 to 1.75
FXBC-12-SQ	FXB5-12-SQ	1	335	168,000	3.00	1.50 x .19	12.00	.56 x .69	1.50 to 1.75
FXB2C-12-SQ	FXB25-12-SQ	2	596	336,000	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
FXB3C-12-SQ	FXB35-12-SQ	3	804	504,000	3.00	1.50 x .34	12.00	.56 x .69	1.50 to 1.75
FXB4C-12-SQ	FXB45-12-SQ	4	1032	672,000	3.00	1.50 x .50	12.00	.56 x .69	1.50 to 1.75
FXBD-12-SQ	FXB6-12-SQ	1	360	201,600	3.00	1.38 x .25	12.00	.56 x .69	1.50 to 1.75
FXB2D-12-SQ	FXB26-12-SQ	2	641	403,200	3.00	1.50 x .41	12.00	.56 x .69	1.50 to 1.75
FXB3D-12-SQ	FXB36-12-SQ	3	864	604,800	3.00	1.50 x .47	12.00	.56 x .69	1.50 to 1.75
FXB4D-12-SQ	FXB46-12-SQ	4	1109	806,400	3.00	1.50 x .56	12.00	.56 x .69	1.50 to 1.75
-	FXB7-12-SQ	1	400	230,400	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
-	FXB27-12-SQ	2	712	460,800	3.00	1.50 x .41	12.00	.56 x .69	1.50 to 1.75
-	FXB37-12-SQ	3	960	691,200	3.00	1.50 x .47	12.00	.56 x .69	1.50 to 1.75
-	FXB47-12-SQ	4	1232	921,600	3.00	1.50 x .56	12.00	.56 x .69	1.50 to 1.75
FXBE-12-SQ	FXB8-12-SQ	1	430	302,400	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
FXB2E-12-SQ	FXB28-12-SQ	2	765	604,800	3.00	1.50 x .50	12.00	.56 x .69	1.50 to 1.75
FXB3E-12-SQ	FXB38-12-SQ	3	1032	907,200	3.00	1.50 x .69	12.00	.56 x .69	1.50 to 1.75
FXB4E-12-SQ	FXB48-12-SQ	4	1324	1,209,600	3.00	1.50 x .88	12.00	.56 x .69	1.50 to 1.75
-	FXB9-12-SQ	1	500	307,200	3.00	1.50 x .25	12.00	.56 x .69	1.50 to 1.75
-	FXB29-12-SQ	2	890	605,400	3.00	1.50 x .50	12.00	.56 x .69	1.50 to 1.75
-	FXB39-12-SQ	3	1200	908,100	3.00	1.50 x .69	12.00	.56 x .69	1.50 to 1.75
-	FXB49-12-SQ	4	1540	1,210,800	3.00	1.50 x .88	12.00	.56 x .69	1.50 to 1.75

*Ampere ratings are a suggested guide only. Actual values used for a given application will depend on permissible temperature rise, permissible voltage drop, number of cables together, and other conditions of service.

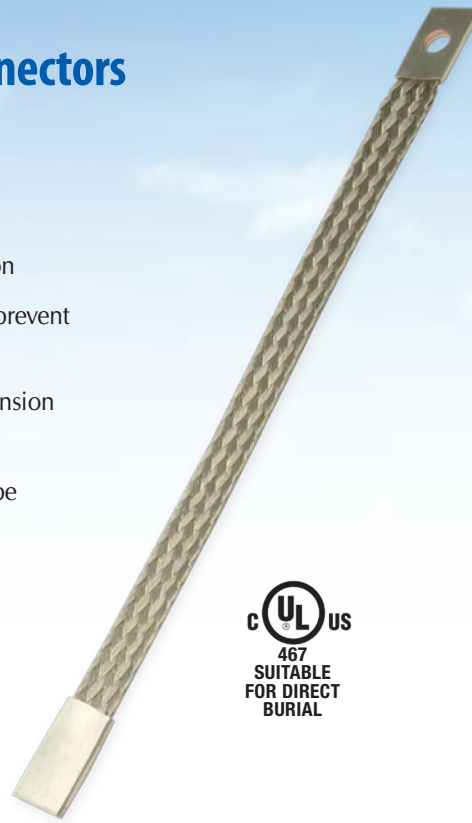
Ordering Information:

- “-S” suffix denotes slotted holes which are suitable for 1/2 in. or 3/8 in. mounting hardware on 1-1/2” or 1-3/4 in. hole centers
- For NEMA drilling, substitute “-N” for “-S” in catalog number suffix
- For lengths other than 12 in., change catalog number accordingly (i.e. if an 18 in. length is desired, change -12 to -18)
- Remove “-Q” from catalog number suffix for silver plated ferrules

Copper Flexible Grounding Braid Connectors

Type GFXB

- Manufactured from flexible pure copper for high conductivity
- Both braid and ferrules are tin plated to protect against corrosion
- Inside ends of seamless pure copper ferrules are chamfered to prevent strand degradation
- Ideally suitable for use wherever it is necessary to take up expansion and provide a reliable ground connection
- Sizes/combinations not shown below and special drilling can be provided upon request



UL US
467
SUITABLE
FOR DIRECT
BURIAL

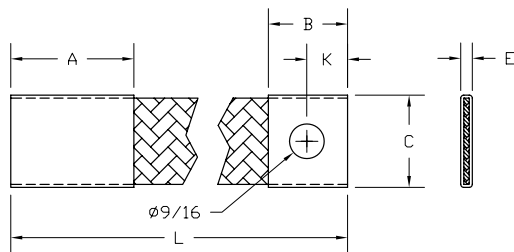


FIG. 1

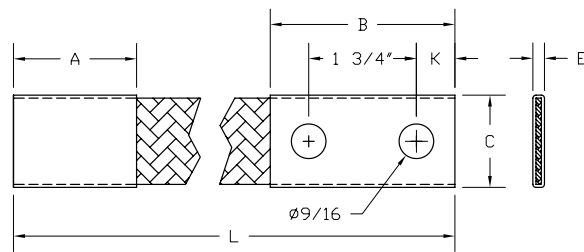


FIG. 2

CATALOG NUMBER	AMPERAGE RATINGS	CIRCULAR MILS.	FIG. NO.	APPROXIMATE DIMENSIONS (IN.)					
				A	B	C	E	K	L
GFXB3-24-S1	190	76,800	1	2.00	1.50	1.00	.16	.75	24.00
GFXB3-24-D1	190	76,800	2	2.00	3.00	1.00	.16	.63	
GFXB5-24-S1	335	168,000	1	2.00	1.50	1.50	.19	.75	
GFXB5-24-D1	335	168,000	2	2.00	3.00	1.50	.19	.63	
GFXB5-24-S	335	168,000	1	3.00	1.50	1.50	.19	.75	
GFXB5-24-D	335	168,000	2	3.00	3.00	1.50	.19	.63	

Ordering Information:

- If different ferrule dimensions are desired, consult factory
- For lengths other than 24 in., change catalog number accordingly

Flexible Copper Braid Kits

Type FBK

- Kits contain braid made from high quality copper for maximum conductivity
- Kits include Penn-Union's Type BBLU-FL Flared Long Barrel Compression Lugs
- Braid and compression lugs are tin plated to protect against corrosion
- Woven design of braid allows for maximum flexibility
- Kits allow user to make custom flexible connections to precisely match requirements
- Eliminates the lead time associated with special orders or the use of connectors that are not ideally suited for the application
- Kits come in both small and large braid sizes



Small Flexible Copper Braid Kit

CATALOG NUMBER	BRAID LENGTH (FT.)	CRIMP CONNECTOR (QTY.) AND TYPE	INSTALLATION TOOLING				
			COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOL	PENN-UNION DIE CATALOG NO.	BURNDY DIE INDEX NO.	T&B DIE INDEX NO.
FBK-125	20.00	(20) BBLU-1/0-S-FL	Pink	TDM-250XF	T-12	12	42
125 Amp 77,184 Circular mil. braid (#1 AWG) 5/32" x 1 1/16"							

Large Flexible Copper Braid Kit

CATALOG NUMBER	BRAID LENGTH (FT.)	CRIMP CONNECTOR (QTY.) AND TYPE	INSTALLATION TOOLING				
			COLOR CODE	PENN-UNION DIELESS MECHANICAL TOOL	PENN-UNION DIE CATALOG NO.	BURNDY DIE INDEX NO.	T&B DIE INDEX NO.
FBK-285	10.00	(10) BBLU-050-D-FL	Brown	-	T-20	20	87
285 Amp 303,912 Circular mil. braid (300 kcmil) 3/8" x 1 3/8"							

Custom Copper Braids & Copper Laminations

Flexible connectors are often the most economical connection when considering all of the design criteria of a particular application. Penn-Union has a long history of building “special application” Flexible Copper Braid connectors and we welcome the opportunity to assist you in coming up with the best solution for your application.

Penn-Union has the capability to produce & test a wide range of high quality products that include small pigtailed 1/8” in diameter, up to large assemblies with 12” wide x 12” long x 2-3/4” thick ferrules. In addition to flat braid, we manufacture many braids using rope-lay stranded copper.

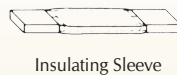
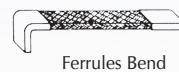
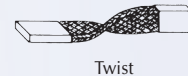
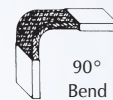
Additional options/features:

- Braid material may be bare or tin plated copper
- Ferrule material is seamless pure copper tubing
- Tin plating or silver plating is available
- All ferrules have rounded inside edges to prevent chafing
 - The inside edge of a ferrule also can be “belled” or “flared” to prevent braid damage in applications where there is extreme movement
 - Ferrules can be made with slotted holes to accommodate 1/2” or 3/8” diameter mounting hardware on 1-1/2” to 1-3/4” hole centers



Custom Variations

In addition to standard Flexible Copper Braid, Penn-Union can manufacture a Flexible Copper Braid to your exact specifications. A few of our configurations are depicted here:



NOTE: All sizes of FXB and FXBJ braid between 12” and 48” lengths are listed to UL467 and are certified to CSA C22.2 No. 41 grounding and bonding equipment standards

In addition to standard Flexible Copper Braid, Penn-Union can manufacture a Flexible Copper Braid to your exact desired specifications. To begin, fill out the form below and send it via e-mail or fax.

CUSTOM FLEXIBLE CONNECTOR SELECTION FORM

Flexible Braid:

Type of Braid: (*Flat, Rope*) _____ Amp Rating: _____
Braid Stranding and Gauge: _____ Plating Required (*Tin, Silver, None*): _____
Total Circular Mils.: _____ Number of Holes Per End: _____
Connector Width: _____ Hole Pattern: _____
Connector Thickness: _____ Hole Diameters/Slotted Hole Dimensions: _____
Connector Shape: _____ Hole Spacing: _____
(*Flat, U shape, Angle, Twist, etc.*)
Insulation Required: _____
Overall Connector length: _____ Special Design Considerations: _____
Ferrule Length: (*Each end*) _____ Quantity: _____

Laminated Shunts (SOLDER/PRESS WELD):

Lamination: (*Number of laminates*) _____ Amp Rating: _____
Copper Strip Thickness: _____ Plating Required (*Tin, Silver, None*): _____
Brazing Material if needed: _____ Number of Holes Per End: _____
Connector Width: _____ Hole Pattern: _____
Connector Thickness: _____ Hole Diameters: _____
Connector Shape: _____ Hole Spacing: _____
(*Flat, U shape, Angle, etc.*)
Special Design Considerations: _____
Overall Connector length: _____ Quantity: _____
Pad Length: (*Each end*) _____

Company Name: _____

Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Phone: _____ Fax: _____

Buyer's Name: _____

Email: _____



Fax or Email to:

Fax: 814.734.4946 • info@penn-union.com



CONNECTING YOUR TOMORROW.™

Construction

Utilities

Power Transmission

Industrial

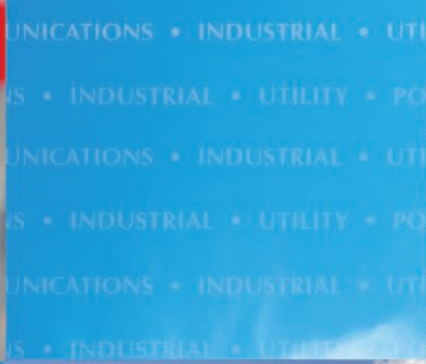
Telecom

Renewable Energy

Aerospace

Rail Systems

MRO



UTILITY CONNECTORS




PENNUNION™
CONNECTING YOUR TOMORROW.™

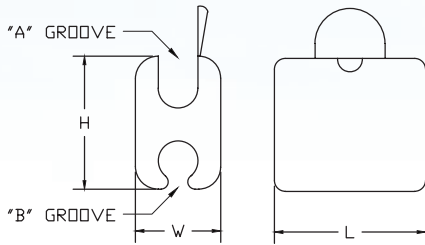
Copper Press-Ons

Types CST and CDT

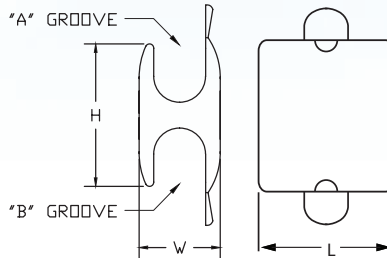
- Manufactured from high conductivity copper
- Tabs allow conductor to be easily held in place before crimping
- Center barrier separates conductors
- Suitable for direct burial in earth and concrete



TYPE CST



TYPE CDT



Single Tab Press-Ons - Type CST

CATALOG NUMBER	A GROOVE	B GROOVE	APPROXIMATE DIMENSIONS (IN.)			DIE SETS FOR HYD. TOOLS TPU-12B*
			L	H	W	
CST-301	6 Sol., 6 Str., 4 Sol.	8 Sol., 8 Str., 6 Sol. 6 Str., 4 Sol.	.81	.73	.47	U-BG or U-243
CST-302	4 Sol., 4 Str., 2 Sol.	6 Sol., 6 Str., 4 Sol. 4 Str., 2 Sol.	.81	.83	.55	

Double Tab Press-Ons - Type CDT

CATALOG NUMBER	A GROOVE	B GROOVE	APPROXIMATE DIMENSIONS (IN.)			DIE SETS FOR HYD. TOOLS TPU-12B*
			L	H	W	
CDT-399-8	6 Sol., 6 Str., 4 Sol.	8 Sol., 6 Str., 4 Sol.	.81	.75	.48	U-BG or U-243
CDT-398-8	4 Sol., 4 Str., 2 Sol.	4 Sol., 4 Str., 2 Sol.	.81	.80	.55	
CDT-304-8	2 Str., 1 Str., 1/0 Str.	6 Sol., 4 Sol., 4 Str., 2 Sol.	.86	1.13	.64	0
CDT-303-8		2 Str., 1 Str., 1/0 Str.	.83	1.13	.72	
• CDT-308-8	2/0 Str., 4/0 Str.	2 Str., 1 Str., 1/0 Str.	1.06	1.41	.91	D3
• CDT-307-8		2/0 Str., 4/0 Str.	1.06	1.38	.91	
CDT-310-8	1/0 Str. - 250 kcmil	1/0 Str. - 250 kcmil	1.15	1.57	.96	U-654

* Burndy Y-35 and Alcoa 12A tools both accept same dies.

• For Canada, must add suffix "-C" for UL 467 Listed product with oxide inhibitor for grounding and bonding.

Mechanical Compression Tooling

CATALOG NUMBER	"O" TYPE TOOL DIE SETS	"W" DIE TYPE TOOL	
		TOOLS	DIE SET
CST-301	T	TMU-OD3	W-BG
CDT-399-8		MD6-8	
CST-302	K	TMU-OD3	W-KK
CDT-398-8		MD6-8	

Copper C-Taps

Type CCT

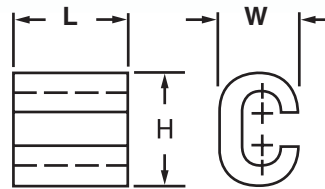
- Manufactured from high conductivity copper alloy
- Used for making tap or parallel copper connections
- Provides consistent reliability with heavy wall construction that prevents relaxation of the joint after installation
- Installation time is reduced because of its “C” shape



CU
486A-B
467 SUITABLE
FOR DIRECT
BURIAL





ELECTRICAL
AND
GROUNDING



CATALOG NUMBER	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)			WIRE STRIP LENGTH	INSTALLATION TOOLING		
	RUN	TAP	L	H	W		PENN-UNION TOOL	DIE INDEX	NO. OF CRIMPS
CCT-46	6 Sol. - 4 Str.	6 Sol. - 6 Str.	.63	.75	.44	3/4"	TPU-12B	BG	1
CCT-44	6 Sol. - 4 Str.	4 Sol. - 4 Str.	.63	.81	.44	3/4"		BG	
CCT-24	2 Sol. - 2 Str.	8 Sol. - 4 Str.	.75	1.00	.63	7/8"		C	
CCT-22	2 Sol. - 2 Str.	2 Sol. - 2 Str.	.75	1.00	.63	7/8"		C	
CCT-2020	1/0 Str. - 2/0 Str.	1/0 Str. - 2/0 Str.	.94	1.38	.81	5/8"		0	
CCT-4020	3/0 Str. - 4/0 Str.	1/0 Str. - 2/0 Str.	1.06	1.63	1.00	13/16"		D3	
CCT-4040	3/0 Str. - 4/0 Str.	3/0 Str. - 4/0 Str.	1.06	1.56	1.00	13/16"		D3	

Copper Range Taking C-Taps

Type RTC

- Manufactured from high conductivity wrought copper
- Applications include copper to copper tapping, splicing or pigtailing
- Compact size allows for easy taping and insulation of connection
- Color-coded for proper crimp die selection
- Design provides for low installation cost
-  to UL 486A-486B for power applications
-  to UL 467 for grounding, bonding and direct burial applications*
- Rated for 600 V applications at 90°C
- Range taking connector allows for lower inventory requirements

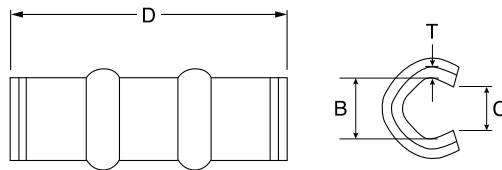


Fig. 1

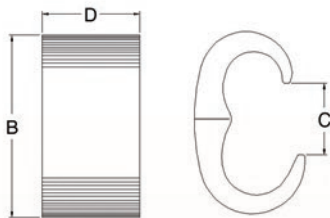


Fig. 2

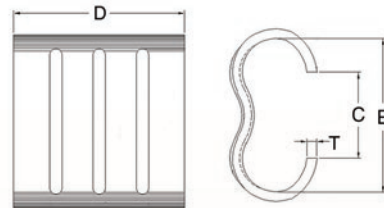


Fig. 3

See table for dimensions and installation tooling information.

CATALOG NUMBER	COPPER CONDUCTOR RANGE		FIG. NO.	NO. OF RIBS	APPROXIMATE DIMENSIONS (IN.)				STRIP LENGTH (IN.)	CRIMP DIE COLOR CODE	COMPETITORS (ITEMS NOTED AS ALTERNATES ARE MOSTLY DUE TO WIRE RANGE DIFFERENCES. REFER TO COMPETITOR CATALOG FOR SPECIFICS)			
	RUN	TAP			B	C	D	T			BURNDY	T&B	PANDUIT	NSI
RTC-1	14	14-16	1	0	.18	.10	.33	.07	1/2	Red	YC10L12	54705	CTAPF10-16-C	CT-101
	12	12-16												
	10	14												
RTC-2	10	10	1	0	.24	.14	.61	.07	5/8	Blue	YC8L12	54710	CTAPF8-12-C	CT-102
	8	12												
RTC-3	8	8-10	1	0	.32	.19	.61	.07	5/8	Gray	YC6L12	54715 (alt.)	CTAPF6-12-C	CT-103
	6	10-12												
RTC-4	6	6-8	1	1	.39	.28	1.17	.07	1 1/4	Brown	YC4L12	54720	CTAPF4-12-C	CT-104
	4	8-12												
RTC-5	4	4-6	1	1	.45	.26	1.17	.07	1 1/4	Green	YC3L12	54725 (alt.)	CTAPF3-12-C	CT-105
	3	6-12												
RTC-6	4	4	1	1	.49	.30	1.17	.07	1 1/4	Pink	YC2L12	54730 (alt.)	CTAPF2-12-C	CT-106
	3	4-6												
	2	6-12												
RTC-7	3	3-4	1	2	.53	.31	1.75	.07	2	Black	YC1L12	54735	CTAPF1-12-C	CT-107
	2	4-6												
	1	4-12												
RTC-8	2	2-4	1	2	.61	.41	1.75	.09	2	Orange	YC25L12	54740	CTAPF1/0-12-L	CT-108
	1	3-4												
	1/0	4-12												
RTC-9	1	1-2	1	2	.69	.42	1.75	.09	2	Purple	YC26L12	54745	CTAPF2/0-12-Q	CT-109
	1/0	2-3												
	2/0	3-12												
RTC-10	1/0	1/0-1	1	2	.81	.46	1.75	.09	2	Yellow	YC27L12	54750	CTAPF3/0-12-Q	CT-110
	2/0	1-2												
	3/0	2-12												
RTC-11	1	1	2	-	1.30	.51	.79	-	1	Blue	YGHC26C2 AND YGHC26C26 (both alt.)	54755	-	CTH-111
	1/0	1/0-2												
	2/0	2/0-4												
	3/0-4/0	1/0-6												
RTC-12	4/0	1-8	2	-	1.46	.57	.78	-	1	Brown	-	54760	-	CTH-112
	2/0	2/0-1												
	3/0	2-3												
	4/0	4/0-4												
RTC-13	250	1/0-8	2	-	1.67	.67	1.03	-	1 1/8	Pink	-	54765	-	CTH-113
	2/0	2/0-1												
	3/0	3/0-2												
	4/0	4/0-4												
RTC-14	250	3/0-6	2	-	1.71	.73	1.03	-	1 1/8	Black	YGHC29C26 AND YGHC29C29 (both alt.)	54770	-	CTH-114
	300	2/0-8												
	4/0	4/0-2/0												
	250	250-1												
RTC-15*	300	4/0-4	2	-	1.85	.81	1.28	-	1 5/16	Yellow	YGHC34C26 AND YGHC34C29 (both alt.)	54775	-	CTH-115
	350	3/0-6												
	400	300-3/0												
	450	350-1/0												
	500	300-2												
RTC-16*	450	250-4	2	-	2.20	.81	1.29	-	1 5/16	White	YGHC34C34 (alt.)	54780	-	CTH-116
	500	250-6												
	350	350-4/0												
	400	400-2/0												
RTC-17*	450	450-1	3	-	2.42	1.36	2.72	-	2 3/4	-	-	54785	-	CTH-117
	500	500-2										54790		

*Items are not cULus for grounding and bonding applications.

BURNDY, T&B, PANDUIT and NSI are registered trademarks of their respective companies.

Aluminum Wide Range Double Tab Press-Ons Types KO-R and KD-R

- Manufactured from high conductivity aluminum
- Designed for overhead line tap applications with copper*, aluminum, ACSR, and compact conductors
- In copper to aluminum applications, H-shaped profile with solid barrier provides conductor separation, prevents strand cutting, and minimizes galvanic corrosion
- Deep indent crimp lines make crimp location clearly visible
- Bendable tabs secure both run and tap conductors, enabling the user to easily operate installation tool
- Pre-filled with oxide inhibitor and individually boxed



*Note: Not recommended for copper to copper applications

7 Connector Program - Mechanical or Hydraulic Tool

CATALOG NUMBER	PROGRAM NUMBER	GROOVE	STANDARD CONDUCTOR			COMPACT CONDUCTOR		NO. OF CRIMPS		DIE SIZE
			ACSR & ALUMINUM ALLOY	AL OR CU STRANDED	AL OR CU SOLID	ACSR	STRANDED	MECH. TOOL	HYD. TOOL	
KO-R06	1	A	6, 4, 2, 6/1	6, 4, 3-7, 2	6, 4, 3, 2	6, 4, 3, 2	6, 4, 3, 2,	4	2	0
		B	6, 4, 2, 6/1	6, 4, 3-7, 3	6, 4, 3, 2	6, 4, 3, 2	6, 4, 3, 2,			
KO-R08	2	A	3, 2, 1, 1/0	3-3, 2, 1/0, 2/0	1,1/0, 2/0	2, 1, 1/0	2, 1, 1/0, 2/0	5	2	0
		B	6, 4, 3, 2,	6, 4, 3, 2, 1-19	6, 4, 3, 2, 1, 1/0	6, 4, 3, 2, 1	6, 4, 3, 2, 1			
KD-R02	3	A	1/0, 2/0	2/0, 3/0	3/0, 4/0,	2/0, 3/0	3/0	4	2	D
		B	6, 4, 3, 2	6, 4, 3, 2, 1-19	6, 4, 3, 2, 1, 1/0	6, 4, 3, 2, 1	6, 4, 3, 2, 1			
KD-R04	4	A	1, 1/0, 2/0	1-3, 1/0, 2/0, 3/0	2/0, 3/0, 4/0	1/0, 2/0, 3/0	1/0, 2/0, 3/0	5	2	D
		B	1, 1/0, 2/0	1-3, 1/0, 2/0	2/0, 3/0	1/0, 2/0, 3/0	1/0, 2/0, 3/0			
KD-R03	5	A	3/0, 4/0	4/0	250, 266, 300	4/0, 266 18/1	4/0, 250, 266	4	2	D
		B	6, 4, 3, 2	6, 4, 3, 2, 1-19	6, 4, 3, 2, 1, 1/0	6, 4, 3, 2, 1	6, 4, 3, 2, 1			
KD-R05	6	A	3/0, 4/0	3/0, 4/0		3/0, 4/0, 266 18/1	4/0, 250, 266	7	3	D
		B	1, 1/0, 2/0	1-3, 1/0, 2/0	2/0, 3/0	1/0, 2/0	1/0, 2/0, 3/0			
KD-R28	7	A	3/0, 4/0	3/0, 4/0	-	3/0, 4/0, 266 18/1	4/0, 250, 266	7	3	D
		B	3/0, 4/0	3/0, 4/0		3/0, 4/0, 266 18/1	4/0, 250, 266			
KO-R10	-	A	4, 3, 2, 1, 1/0	4, 3, 2, 1, 1/0, 2/0	2, 1, 1/0	4, 3, 2, 1, 1/0	4, 3, 2, 1, 1/0, 2/0	5	2	0
		B	4, 3, 2, 1, 1/0	4, 3, 2, 1, 1/0, 2/0	2, 1, 1/0	4, 3, 2, 1, 1/0	4, 3, 2, 1, 1/0, 2/0			
KO-R33	-	A	6, 4	6, 4, 3-7	6, 4, 3, 2	6, 4, 3,	6, 4	4	2	0
		B	6, 4	6, 4, 3-7	6, 4, 3, 2	6, 4, 3	6, 4			

4 Connector Program - Hydraulic Tool Only

CATALOG NUMBER	GROOVE	STANDARD CONDUCTOR			COMPACT CONDUCTOR		NO. OF CRIMPS (HYD. TOOL)	DIE SIZE
		ACSR & AL ALLOY	AL OR CU STRANDED	AL OR CU SOLID	ACSR	STRANDED		
KO-R01	A	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, 1/0	6, 4, 3, 2, 1, 1/0	2	0
	B	6, 4, 3, 2	6, 4, 3, 2, 1-19	6, 4, 3, 2, 1, 1/0	6, 4, 3, 2, 1	6, 4, 3, 2, 1		
KD-R03	A	1, 1/0, 2/0, 3/0, 4/0	1-3, 1/0, 2/0, 3/0, 4/0	2/0, 3/0, 4/0	1/0, 2/0, 3/0, 4/0, 266 18/1,	1/0, 2/0, 3/0, 4/0, 250, 266	2	D
	B	6, 4, 3, 2	6, 4, 3, 2, 1-19	6, 4, 3, 2, 1/0	6, 4, 3, 2, 1	6, 4, 3, 2, 1		
KD-R05	A	1, 1/0, 2/0, 3/0, 4/0	1-3, 1/0, 2/0, 3/0, 4/0	2/0, 3/0, 4/0	1/0, 2/0, 3/0, 4/0, 266 18/1	1/0, 2/0, 3/0, 4/0, 250, 266	3	D
	B	1, 1/0, 2/0	1-3, 1/0, 2/0	2/0, 3/0	1/0, 2/0	1/0, 2/0, 3/0		
KD-R28	A	2/0, 3/0, 4/0	3/0, 4/0		3/0, 4/0, 266 18/1	3/0, 4/0, 250, 266	3	D
	B	2/0, 3/0, 4/0	3/0, 4/0		3/0, 4/0, 266 18/1	3/0, 4/0, 250, 266		

Street Lighting KO-R21 & 22

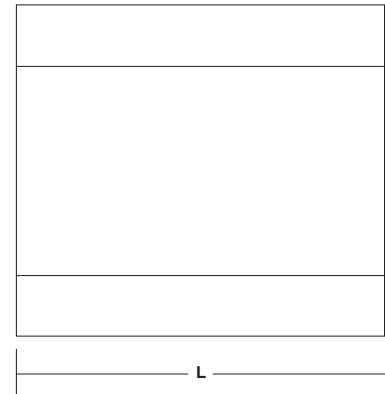
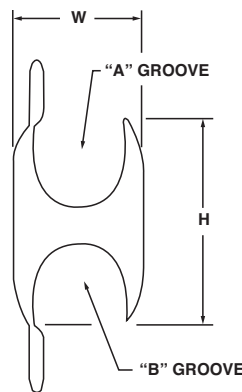
Double tab design for making connections to street lights (packed two per box)

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	GROOVE	CONDUCTOR RANGE	NO. OF CRIMPS		DIE SIZE
			0-52 HAND	HYD.	
KO-R21	A	4 Str. - 4 ACSR	3	-	5/8"-Nose
	B	12 Sol. - 10 Str.			
KO-R22	A	6 Sol. - 4 Sol.	3	-	5/8"-Nose
	B	12 Sol. - 10 Str.			
KO-R24	A	4 ACSR - 2/0 Str.	3	1	0
	B	10 Str., 10 Sol., 6 Sol.			
	C	14 Sol., 10 Sol.			

CATALOG NUMBER	APPROXIMATE DIMENSIONS (IN.)		
	L	W	H
KO-R06	1.50	.70	1.13
KO-R08	1.50	.70	1.13
KD-R02	1.50	.89	1.47
KD-R04	1.88	.89	1.48
KD-R03	1.50	.89	1.47
KD-R05	2.25	.89	1.44
KD-R28	2.25	.89	1.44
KO-R10	1.50	.70	1.13
KO-R01	1.75	.72	1.16
KO-R21	.63	.59	.61
KO-R22	.81	.91	.59
KO-R24	1.06	.72	1.11
KO-R33	1.50	.70	1.11

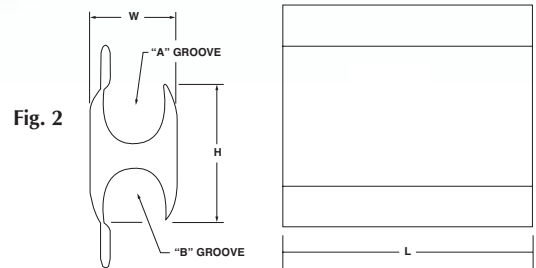
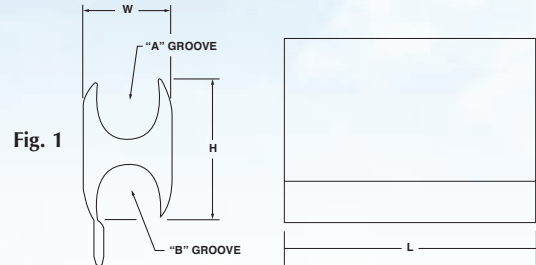


Aluminum Expanded Range Press-Ons Types KN and KN-R



- Manufactured from high conductivity aluminum
- Designed for overhead line tap applications with copper*, aluminum, ACSR, and compact conductors
- In copper to aluminum applications, H-shaped profile with solid barrier provides conductor separation, prevents strand cutting, and minimizes galvanic corrosion
- Deep indent crimp lines make crimp locations clearly visible
- Bendable tabs secure both run and tap conductors, enabling the user to easily operate installation tool
- Pre-filled with oxide inhibitor and individually boxed

*Note: Not recommended for copper to copper applications



CATALOG NUMBER	GROOVE	STANDARD CONDUCTOR			COMPRESSED CONDUCTOR		NO. OF CRIMPS (HYD.)	DIE SIZE
		ACSR* & ALUMINUM ALLOY	AL OR CU STRANDED	AL OR CU SOLID	ACSR*	STRANDED		
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	2	N
	B	6, 4	6, 4, 3-7	6, 4, 3, 2	6, 4, 3	6, 4		
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	2	
	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		
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	2	
	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		
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	3	
	B	336.4, 397.5 18/1	336.4, 350, 397.5, 400	-	397 18/1, 477 18/1	397, 477, 500		
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	2	
	B	6, 4	6, 4, 3-7	6, 4, 3, 2	6, 4, 3	6, 4, 2		
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	2	
	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		
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	2	
	B	2/0, 3/0, 4/0	3/0, 4/0	4/0	3/0, 4/0, 266 18/1	4/0, 250, 266		
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	3	
	B	266.8, 300, 336.4 18/1	250, 266.8, 300, 336.4, 350	-	336 18/1, 397 18/1	336, 350, 397		

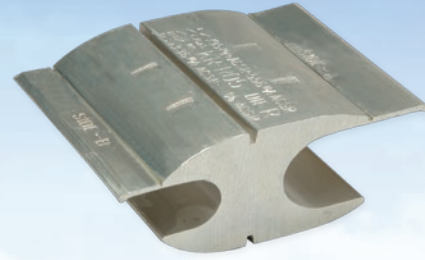
*Conductor sizes listed include all strandings except where 18/1 is shown after conductor size

CATALOG NUMBER	FIG. NO.	APPROXIMATE DIMENSIONS (IN.)		
		L	W	H
KN-0	1	2.00	1.25	1.97
KN-1	1	2.00	1.25	2.00
KN-R2	2	2.00	1.25	2.00
KN-4	1	3.50	1.25	2.03

CATALOG NUMBER	FIG. NO.	APPROXIMATE DIMENSIONS (IN.)		
		L	W	H
KN-R5	2	2.00	1.25	2.00
KN-R6	2	2.00	1.25	2.00
KN-R7	2	2.00	1.25	1.97
KN-8	1	3.50	1.25	2.00

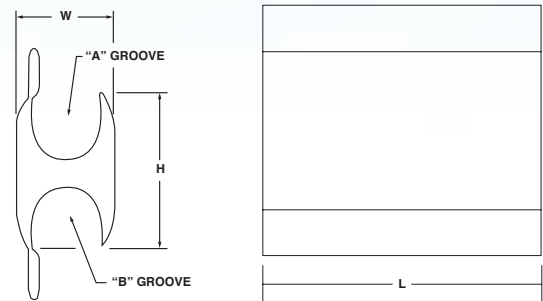
Aluminum Wide Range Double Tab Press-Ons

Type KR-R



- Manufactured from high conductivity aluminum
- Designed for overhead line tap applications with copper*, aluminum, ACSR, and compact conductors
- In copper to aluminum applications, H-shaped profile with solid barrier provides conductor separation, prevents strand cutting, and minimizes galvanic corrosion
- Deep indent crimp lines make crimp locations clearly visible
- Bendable tabs secure both run and tap conductors, enabling the user to easily operate installation tool
- Pre-filled with oxide inhibitor and individually boxed

*Note: Not recommended for copper to copper applications



CATALOG NUMBER	GROOVE	STANDARD CONDUCTOR			COMPRESSED CONDUCTOR		NO. OF CRIMPS (HYD.)	DIE SIZE
		ACSR & ALUMINUM ALLOY	AL OR CU STRANDED	AL OR CU SOLID	ACSR	STRANDED		
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	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		
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	4	
	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		
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	3	
	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		
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	4	
	B	300, 336, 397, 477, 556 18/1	336, 350, 397, 400, 450, 477, 500, 550, 556	-	397, 477, 556, 636	477, 500, 556, 636		
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	4	
	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		

CATALOG NUMBER	APPROXIMATE DIMENSIONS (IN.)		
	L	W	H
KR-R03	3.50	1.75	3.02
KR-R04	4.63	1.75	3.06
KR-R05	3.50	1.75	3.02
KR-R06	4.63	1.75	3.05
KR-R07	4.63	1.75	3.03

Insulating Covers

Type IC



- Designed to provide superior insulation protection for a wide range of aluminum H-Tap connectors and service entrance sleeves
- High density polyethelene cover
- One piece hinged design allows for quick and easy installation
- Integral drain ports minimize moisture accumulation
- Ultra violet stabilized for long life



CATALOG NUMBER	CAPACITY	COLOR
IC-5/8-2	All 5/8" O.D. sleeves - 2" long or less	Black
IC-O-175	All O die taps - 1-3/4" long or less	
IC-D-250	All D die taps - 2-1/2" long or less	
IC-ND-200	All N and D die taps up to 2" long	
IC-ND-500	All N and D die taps up to 5" long	

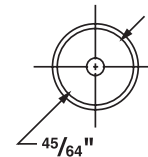
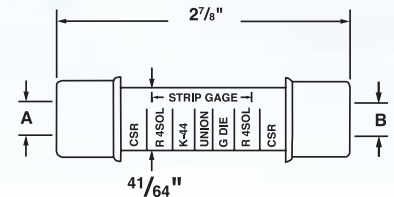
Aluminum Pre-Insulated Service Entrance Sleeves

Type PIK

5/8" OD



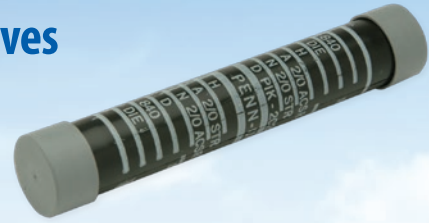
- Forged from pure aluminum with integral solid center barrier
- For insulated combinations of copper, aluminum, and ACSR
- Designed for overhead commercial service and residential installations
- Solid center barrier allows for proper conductor insertion and eliminates the effects of galvanic corrosion in aluminum to copper connections
- Easy push-thru polyethelene color coded caps seal out contaminants
- Connectors are pre-filled with oxide inhibitor to keep air and moisture out
- Aluminum insert is anchored to jacket assuring that the insert remains positioned where crimp markings are indicated
- Strip gage and number of crimps are marked on connector sleeve for ease of installation
- Nylon jacket insulates connector electrically and protects against water and weather
- Nylon jacket material increases shelf life and improves crimpability even at sub-zero temperatures
- Conforms to ANSI C 119.4 when properly installed



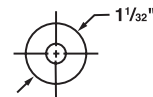
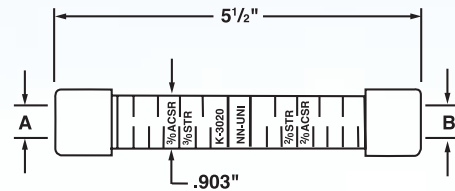
CATALOG NUMBER	A RANGE				B RANGE				DIE SIZE
	ACSR	AL OR CU STRANDED	AL OR CU SOLID	CAP COLOR	ACSR	AL OR CU STRANDED	AL OR CU SOLID	CAP COLOR	
PIK-88	-	10	8	Brown	-	10	8	Brown	5/8, BG
PIK-68	-	8	6	Green	-	10	8	Brown	
PIK-66	-	8	6	Green	-	8	6	Green	
PIK-48	6 6/1	5-6	4	Blue	-	10	8	Brown	
PIK-46					-	8	6	Green	
PIK-44					6 6/1	5-6	4	Blue	
PIK-28	4 6/1, 7/1	3-4	2	Orange	-	10	8	Brown	
PIK-26					-	8	6	Green	
PIK-24					6 6/1	5-6	4	Blue	
PIK-22					4 6/1, 7/1	3-4	2	Orange	
PIK-18	2 6/1, 7/1	1-2	-	Red	-	10	8	Brown	
PIK-16					-	8	6	Green	
PIK-14					6 6/1	5-6	4	Blue	
PIK-12					4 6/1, 7/1	3-4	2	Orange	
PIK-11					2 6/1, 7/1	1-2	-	Red	
PIK-08	-	1/0	-	Yellow	-	10	8	Brown	
PIK-06					-	8	6	Green	
PIK-04					6 6/1	5-6	4	Blue	
PIK-02					4 6/1, 7/1	3-4	2	Orange	
PIK-01					2 6/1, 7/1	1-2	-	Red	
PIK-00					-	1/0	-	Yellow	

Aluminum Pre-Insulated Service Entrance Sleeves

Type PIK
.840" OD



- Forged from pure aluminum with integral solid center barrier
- For insulated combinations of copper, aluminum, and ACSR
- Designed for overhead commercial service and residential installations
- Solid center barrier allows for proper conductor insertion and eliminates the effects of galvanic corrosion in aluminum to copper connections
- Easy push-thru polyethylene color coded caps seal out contaminants
- Connectors are pre-filled with oxide inhibitor to keep air and moisture out
- Aluminum insert is anchored to jacket assuring that the insert remains positioned where crimp markings are indicated
- Strip gage and number of crimps are marked on connector sleeve for ease of installation
- Nylon jacket insulates connector electrically and protects against water and weather
- Nylon jacket material increases shelf life and improves crimpability even at sub-zero temperatures
- Conforms to ANSI C 119.4 when properly installed



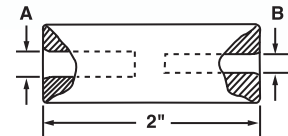
CATALOG NUMBER	A RANGE			B RANGE				DIE SIZE	
	ACSR	AL OR CU STRANDED	CAP COLOR	ACSR	AL OR CU STRANDED	AL OR CU SOLID	CAP COLOR	HAND	HYD.
PIK-01R	1/0 6/1	1/0	Yellow	2	1-2	1/0	Red	.840	249, EEI 11A
PIK-00R				1/0	1/0	-	Yellow		
PIK-204	2/0 6/1	2/0	Gray	6	5-6	4	Blue		
PIK-202				4	3-4	2	Orange		
PIK-201				2	1-2	1/0	Red		
PIK-200				1/0	1/0	-	Yellow		
PIK-2020				2/0	2/0	-	Gray		
PIK-302				4	3-4	2	Orange		
PIK-301	3/0 6/1	3/0	Black	2	1-2	1/0	Red		
PIK-300				1/0	1/0	-	Yellow		
PIK-3020				2/0	2/0	-	Gray		
PIK-3030				3/0	3/0	-	Black		
PIK-402				4	3-4	2	Orange		
PIK-401	4/0 6/1	4/0	Pink	2	1-2	1/0	Red		
PIK-400				1/0	1/0	-	Yellow		
PIK-4020				2/0	2/0	-	Gray		
PIK-4030				3/0	3/0	-	Black		
PIK-4040				4/0	4/0	-	Pink		

Aluminum Service Entrance Sleeves

Type PSK

5/8" OD

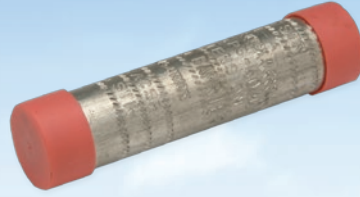
- Forged from pure aluminum with integral solid center barrier
- For combinations of copper, aluminum, and ACSR
- Designed for overhead commercial service and residential installations
- Solid center barrier allows for proper conductor insertion and eliminates the effects of galvanic corrosion in aluminum to copper connections
- Installed with standard dies in hand or hydraulic tools
- Easy push-thru polyethelene color coded caps seal out contaminants
- Connectors are pre-filled with oxide inhibitor to keep air and moisture out
- Conforms to ANSI C 119.4 when properly installed



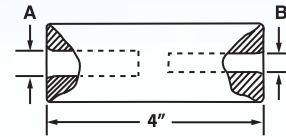
CATALOG NUMBER	A RANGE					B RANGE					DIE SIZE
	ACSR	AL OR CU STRANDED	AL OR CU SOLID	COMPRESSED CONDUCTOR	CAP COLOR	ACSR	AL OR CU STRANDED	AL OR CU SOLID	COMPRESSED CONDUCTOR	CAP COLOR	
PSK-88	-	10	8	-	Brown	-	10	8	-	Brown	5/8, BG
PSK-68	-	8	6	-	Green	-	10	8	-	Brown	
PSK-66	-	8	6	-	Green	-	8	6	-	Green	
PSK-48	-	10	8	-	Brown	-	10	8	-	Brown	
PSK-46	6 6/1	6	4	6	Blue	-	8	6	-	Green	
PSK-44	6 6/1	6	4	6	Blue	6 6/1	6	4	6	Blue	
PSK-28	-	10	8	-	Brown	-	10	8	-	Brown	
PSK-26	-	8	6	-	Green	-	8	6	-	Green	
PSK-24	4 6/1, 7/1	4	2	4	Orange	6 6/1	6	4	6	Blue	
PSK-22	4 6/1, 7/1	4	2	4	Orange	4 6/1, 7/1	4	2	4	Orange	
PSK-18	-	10	8	-	Brown	-	10	8	-	Brown	
PSK-16	-	8	6	-	Green	-	8	6	-	Green	
PSK-14	2 6/1, 7/1	2	1/0	2	Red	6 6/1	6	4	6	Blue	
PSK-12	4 6/1, 7/1	4	2	4	Orange	4 6/1, 7/1	4	2	4	Orange	
PSK-11	2 6/1, 7/1	2	1/0	2	Red	2 6/1, 7/1	2	1/0	2	Red	
PSK-08	-	10	8	-	Brown	-	10	8	-	Brown	
PSK-06	-	8	6	-	Green	-	8	6	-	Green	
PSK-04	6 6/1	6	4	6	Blue	6 6/1	6	4	6	Blue	
PSK-02	4 6/1, 7/1	4	2	4	Orange	4 6/1, 7/1	4	2	4	Orange	
PSK-01	2 6/1	2	1/0	2	Red	2 6/1	2	1/0	2	Red	
PSK-00	1/0 6/1	1/0	-	1/0	Yellow	1/0 6/1	1/0	-	1/0	Yellow	

Aluminum Service Entrance Sleeves

Type PS
.840" OD



- Forged from pure aluminum with integral solid center barrier
- For combinations of copper, aluminum, and ACSR
- Designed for service entrance and non-tension loop splice applications
- Solid center barrier allows for proper conductor insertion and eliminates the effects of galvanic corrosion in aluminum to copper connections
- Installed with standard dies in either hand or hydraulic tools
- Easy push-thru polyethelene color coded caps seal out contaminants
- Connectors are pre-filled with oxide inhibitor to keep air and moisture out
- Conforms to ANSI C 119.4 when properly installed



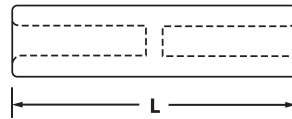
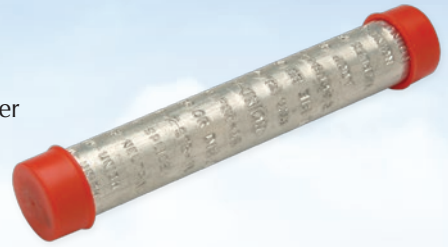
CATALOG NUMBER	A RANGE			B RANGE				NO. OF CRIMPS EACH END		DIE SIZE
	ACSR	AL OR CU STRANDED	CAP COLOR	ACSR	AL OR CU STRANDED	AL OR CU SOLID	CAP COLOR	HAND	HYD.	
								7	4	
PS-00	1/0 6/1	1/0	Yellow	1/0	1/0	-	Yellow	7	4	.840, 249
PS-202	2/0 6/1	2/0	Gray	4	3-4	2	Orange			
PS-201				2	1-2	1/0	Red			
PS-200				1/0	1/0	-	Yellow			
PS-2020				2/0	2/0	-	Gray			
PS-302	3/0 6/1	3/0	Black	4	3-4	2	Orange			
PS-301				2	1-2	1/0	Red			
PS-300				1/0	1/0	-	Yellow			
PS-3020				2/0	2/0	-	Gray			
PS-3030				3/0	3/0	-	Black			
PS-402	4/0 6/1	4/0	Pink	4	3-4	2	Orange			
PS-401				2	1-2	1/0	Red			
PS-400				1/0	1/0	-	Yellow			
PS-4020				2/0	2/0	-	Gray			
PS-4030				3/0	3/0	-	Black			
PS-4040				4/0	4/0	-	Pink			

Aluminum Neutral Splicing Sleeves

Type PNK

5/8" OD

- Manufactured from pure aluminum alloy with integral solid center barrier
- Designed for aluminum and ACSR conductors in service drop or short span distribution line applications
- Solid center barrier allows for proper conductor insertion
- Easy push-thru polyethelene color coded caps seal out contaminants
- Connectors are pre-filled with oxide inhibitor to keep air and moisture out
- Conforms to ANSI C 119.4 when properly installed



CATALOG NUMBER	CONDUCTOR RANGE			L (IN.)	NO. OF CRIMPS	DIE SIZE
	ACSR	ALUMINUM	CAP COLOR			
PNK-44	6 6/1	6 Str. - 4 Sol.	Blue	4.25	9	BG, 5/8, Peach
PNK-22	4 6/1, 7/1	4 Str. - 2 Sol.	Orange	4.25	9	
PNK-11	2 6/1, 7/1	2 Str.	Red	4.25	9	
PNK-00	-	1/0 Str.	Yellow	6.00	12	

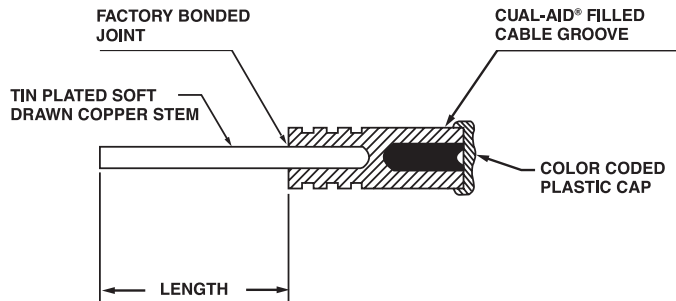
Pin Terminals

Types PSKS and PSS

- Connector construction consists of a pure aluminum alloy sleeve and a tin-plated high conductivity copper stem
- Designed for terminating aluminum and ACSR conductors at cut-outs, arrestors, transformer secondaries, and meter entrances
- Stem may be bent to any desired angle for easier insertion
- Connectors are pre-filled with oxide inhibitor and sealed with color coded end caps



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CATALOG NUMBER	COPPER STEM			CONDUCTOR RANGE			NO. OF CRIMPS		DIE SIZE
	APPROXIMATE LENGTH (IN.)	CONDUCTOR SIZE (AWG)	MAXIMUM DIAMETER (IN.)	ALUMINUM	ACSR	CAP COLOR	HAND	HYD.	
PSKS-44-2 1/4	2.50	4 Sol.	.204	6 Str., 4 Sol.	6 6/1	Blue	3	1	BG, 5/8
PSKS-24-2 1/4				4 Str., 2 Sol.	4 6/1, 7/1	Orange			
PSKS-14-2 1/4				1, 2 Str., 1/0 Sol.	2 6/1, 7/1	Red			
PSKS-04-2 1/4				1/0 Str.	1/0 6/1	Yellow			
PSKS-22-3 1/4	3.25	2 Sol.	.258	4 Str., 2 Sol.	4 6/1, 7/1	Orange	7	4	840, 249
PSKS-12-3 1/4				1, 2 Str., 1/0 Sol.	2 6/1, 7/1	Red			
PSKS-02-3 1/4				1/0 Str.	1/0 6/1	Yellow			
PSS-22-6 1/2	6.50	2 Sol.	.258	4 Str., 2 Sol.	4 6/1, 7/1	Orange	-	4	1 1/8-2
PSS-12-6 1/2				1, 2 Str., 1/0 Sol.	2 6/1, 7/1	Red			
PSS-01-6 1/2	6.50	1/0 Sol.	.325	1/0 Str.	1/0 6/1	Yellow	-	4	1 1/8-2
PSS-201-6 1/2				2/0 Str.	2/0 6/1	Gray			
PSS-301-6 1/2				3/0 Str.	3/0 6/1	Black			
PSS-401-6 1/2				4/0 Str.	4/0 6/1	Pink			
PSS-2630-5 1/2	5.50	4/0 Sol.	.460	250 kcmil, 266.8 kcmil	-	Clear	-	4	1 1/8-2
PSS-3330-5 1/2				300 kcmil, 336.4 kcmil	266.8 18/1, 26/7				
PSS-3930-5 1/2				350 kcmil, 397.5 kcmil	300 26/7, 336.4 18/1, 26/7				
PSS-4730-5 1/2				477 kcmil, 500 kcmil	397.5 26/7, 30/7 477 18/1, 24/7				

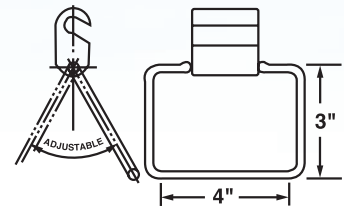
Single Press-On Stirrups

Types KBO, KBD, and KBN

- Manufactured from high conductivity aluminum and factory installed bails are tin plated solid copper
- For aluminum and ACSR conductors
- Designed to protect energized conductors from arcing and mechanical damage where hot line clamps are used
- Adjustable bail permits taps to be taken off at any convenient angle
- Single aluminum clamping element for standard duty applications
- Installed easily with standard "O" and "D" dies in mechanical or hydraulic tools
- Factory filled with oxide inhibitor
- Shipped in polyethelene bags to keep clean until ready for use



RoHS
COMPLIANT

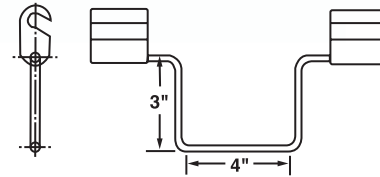


CATALOG NUMBER	CONDUCTOR RANGE		COPPER BAIL* (AWG)	BAIL DIA. (IN.)	INSTALLATION TOOLS & DIES		
	ACSR	ALUMINUM			KEARNEY	ALCOA	BURNDY
KBO-W4-2	6 6/1	6 Sol., 6 Str., 4 Sol.	2 Sol.	.258	WH-1 (Hyd. Tool) 0-1, 0-2, 0-52 (Mech. Tools) with O Die	12-A (Hyd. Tool) with O Die	Y-35 (Hyd. Tool) with O Die
KBO-R2-2	2 - 4 6/1, 7/1	2 Sol., 2 Str., 4 Str.	2 Sol.	.258			
KBO-1/0-2	1/0 6/1	1/0 Str.	2 Sol.	.258			
KBD-2/0-2	1/0 - 2/0 6/1	1/0 - 2/0 Str.	2 Sol.	.258	WH-1 (Hyd. Tool) 0-51, 0-52 (Mech. Tools) with D Die	12-A (Hyd. Tool) with D Die	Y-35 (Hyd. Tool) with D Die
KBD-4/0-2	3/0 - 4/0 6/1	4/0 Str.	2 Sol.	.258			
KBD-4/0-0	3/0 - 4/0 6/1	4/0 Str.	1/0 Sol.	.325	WH-1 (Hyd. Tool) with D Die		
KBN-0-2	266.8 - 397.5 18/1	250 - 400 kcmil	2 Sol.	.258	WH-2 (Hyd. Tool) with N Die	12-A (Hyd. Tool) with N Die	Y-35 (Hyd. Tool) with N Die
KBN-1-0	266.8 - 397.5 18/1	250 - 400 kcmil	1/0 Sol.	.325			
KBN-R5-2	300 - 477 18/1	336.4 - 500 kcmil	2 Sol.	.258			
KBN-R6-0	300 - 477 18/1	336.4 - 500 kcmil	1/0 Sol.	.325			

*Note: Bails are tin-plated

Double Press-On Stirrups Types KKBO, KKBD, and KKBN

- Manufactured from high conductivity aluminum and factory installed bails are tin plated solid copper
- For aluminum and ACSR conductors
- Designed to protect energized conductors from arcing and mechanical damage where hot line clamps are used
- Adjustable bail permits taps to be taken off at any convenient angle
- Double aluminum clamping element for heavy duty applications
- Installed easily with standard "O" and "D" dies in mechanical or hydraulic tools
- Factory filled with oxide inhibitor
- Shipped in polyethelene bags to keep clean until ready for use



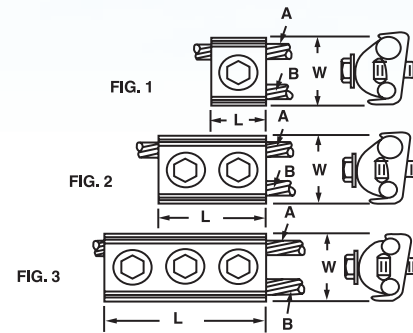
CATALOG NUMBER	CONDUCTOR RANGE		COPPER BAIL*	BAIL DIA. (IN.)	INSTALLATION TOOLS & DIES		
	ACSR	ALUMINUM			KEARNEY	ALCOA	BURNDY
KKBO-W4-2	6 6/1	6 Sol., 6 Str., 4 Sol.	2 Sol.	.258	WH-1 (Hyd. Tool) 0-1, 0-2, 0-52 (Mech. Tools) with O Die	12-A (Hyd. Tool) with O Die	Y-35 (Hyd. Tool) with O Die
KKBO-R2-2	2 - 4 6/1, 7/1	2 Sol., 2 Str., 4 Str.	2 Sol.	.258			
KKBO-1/0-2	1/0 6/1	1/0 Str.	2 Sol.	.258			
KKBD-2/0-2	1/0 - 2/0 6/1	1/0 - 2/0 Str.	2 Sol.	.258	WH-1 (Hyd. Tool) 0-51, 0-52 (Mech. Tools) with D Die	12-A (Hyd. Tool) with D Die	Y-35 (Hyd. Tool) with D Die
KKBD-4/0-2	3/0 - 4/0 6/1	4/0 Str.	2 Sol.	.258			
KKBD-4/0-0	3/0 - 4/0 6/1	4/0 Str.	1/0 Sol.	.325	Use WH-1 (Hyd. Tool) with D Die		
KKBN-0-2	266.8 - 397.5 18/1	250 - 400 kcmil	2 Sol.	.258	WH-2 (Hyd. Tool) with N Die	12-A (Hyd. Tool) with N Die	Y-35 (Hyd. Tool) with N Die
KKBN-1-0	266.8 - 397.5 18/1	250 - 400 kcmil	1/0 Sol.	.325			
KKBN-R5-2	300 - 477 18/1	336.4 - 500 kcmil	2 Sol.	.258			
KKBN-R6-0	300 - 477 18/1	336.4 - 500 kcmil	1/0 Sol.	.325			

*Note: Bails are tin-plated

Aluminum Parallel Clamps

Type PCAA

- Manufactured from high strength aluminum extruded alloy
- For aluminum, copper, ACSR, and AR* conductors
- Designed for tap and parallel connections
- Assembled with high strength stainless steel bolts and flatwashers
- Serrated grooves provide increased conductor contact and improve mechanical performance
- For aluminum to copper applications, it is recommended to install the aluminum conductor above the copper conductor to minimize corrosion
- For factory applied oxide inhibitor, suffix catalog number with “-BF”
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)		BOLT SIZE
		A MAIN	B TAP	L	W	
PCAA-10 ●	1	6 Sol. - 1/0 Str. 6 - 1/0 ACSR	6 Sol. - 1/0 Str. 6 - 1/0 ACSR	1.31	1.44	3/8
PCAA-15 ●	1	6 Sol. - 2/0 Str. 6 - 2/0 ACSR 6 Str. AR	6 Sol. - 2/0 Str. 6 - 2/0 ACSR 6 Str. AR	1.38	1.69	3/8
PCAA-17	1	2 Sol. - 4/0 Str. 4 - 4/0 ACSR 6 - 4 Str. AR	2 Sol. - 4/0 Str. 4 - 4/0 ACSR 6 - 4 Str. AR	1.50	1.94	3/8
PCAA-18	2	2 Sol. - 4/0 Str. 4 - 4/0 ACSR 6 - 4 Str. AR	2 Sol. - 4/0 Str. 4 - 4/0 ACSR 6 - 4 Str. AR	3.00	1.94	3/8
PCAA-20 ●	1	3/0 Str. - 400 kcmil 3/0 - 397.5 18/1 ACSR 4 Str. - 2/0 Str. AR	6 Sol. - 2/0 Str. 6 - 2/0 ACSR 6 Str. AR	1.75	2.19	1/2
PCAA-23	2	3/0 Str. - 400 kcmil 3/0 - 397.5 18/1 ACSR 4 Str. - 2/0 Str. AR	3/0 Str. - 400 kcmil 3/0 - 397.5 18/1 ACSR 4 Str. - 2/0 Str. AR	3.38	2.47	1/2
PCAA-25	3	3/0 Str. - 400 kcmil 3/0 - 397.5 18/1 ACSR 4 Str. - 2/0 Str. AR	3/0 Str. - 400 kcmil 3/0 - 397.5 18/1 ACSR 4 Str. - 2/0 Str. AR	5.25	2.47	1/2
PCAA-27	1	400 - 1000 kcmil 397.5 18/1 - 795 ACSR 3/0 Str. - 397.5 AR	6 Sol. - 2/0 Str. 6 - 2/0 ACSR 6 Str. AR	2.25	2.81	5/8
PCAA-30	2	400 - 1000 kcmil 397.5 18/1 - 795 ACSR 3/0 Str. - 397.5 AR	3/0 Str. - 400 kcmil 3/0 - 397.5 18/1 ACSR 4 Str. - 2/0 Str. AR	4.50	3.13	5/8
PCAA-35	3	400 - 1000 kcmil 397.5 18/1 - 795 ACSR 3/0 Str. - 397.5 AR	400 - 1000 kcmil 397.5 18/1 - 795 ACSR 3/0 Str. - 397.5 AR	6.75	3.50	5/8

*All aluminum cable rating with Preformed Armor Rods

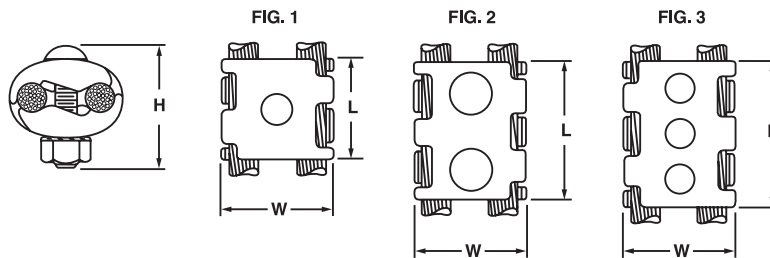
● RUS accepted with -BF suffix

Bronze Universal Parallel Clamps Type UPC

- Manufactured from high strength copper alloy
- For copper conductors
- Designed for tap and parallel connections
- Connectors accommodate a large range of wires or cables in either groove
- Furnished with silicon bronze carriage bolts, nuts and lockwashers for single wrench installation
- Long contact surfaces and interlocking fingers provide excellent conductor contact and mechanical performance
- For use with aluminum conductors, add suffix “-TN” to catalog number for tin plating



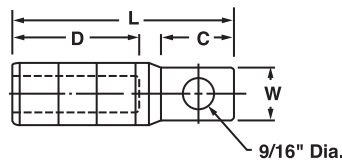
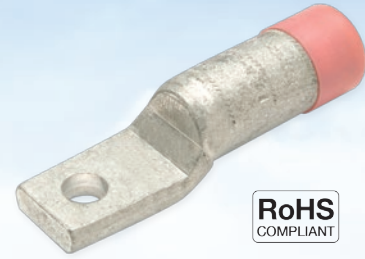
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CATALOG NUMBER	CONDUCTOR RANGE	FIG. NO.	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			H	L	W	
UPC-1	6 Sol. - 1/0 Str.	1	1.75	1.75	1.50	3/8
UPC-2	4 Sol. - 4/0 Str.	2	2.00	2.13	1.75	
UPC-3	2 Sol. - 300 kcmil	2	2.25	2.38	2.00	
UPC-4	4/0 Str. - 500 kcmil	3	3.25	4.25	2.50	1/2
UPC-5	300 - 800 kcmil	3	3.25	4.25	3.00	
UPC-6	500 - 1000 kcmil	3	3.50	4.25	3.50	

Aluminum Compression Terminals - One Hole Tongue Side Formed Types FKLA, FSLA, and FULA

- Manufactured from high strength aluminum alloy
- For aluminum, copper, or ACSR conductors
- Narrow tongue design for limited space applications
- Connectors are pre-filled with oxide inhibitor
- Completely closed transitions protect the end of cable from environmental hazards
- Three common barrel O.D. sizes accommodate a range from #10 Str. - 500 kcmil
- Requires only three installation dies to crimp 15 conductor ranges
- For tin plating, suffix catalog number with “-TN”

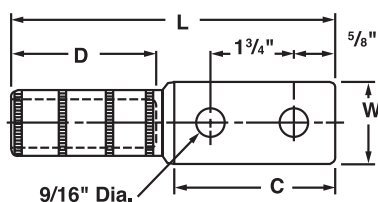
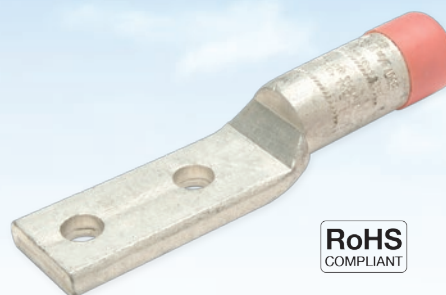


CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					DIE SIZE	NO. OF CRIMPS
		C	D	L	TONGUE THICKNESS	W		
FKLA-W8-S	10 Str., 8 Sol.	1.09	1.38	3.00	.25	.88	BG, 5/8, 243	3
FKLA-W6-S	8 Str., 6 Sol.							
FKLA-W4-S	6 Str., 4 Sol., 4 Compact, 6 ACSR							
FKLA-W2-S	4 & 3 Str., 2 Sol., 2 Compact, 4 ACSR							
FKLA-C2-S	2 Str., 1/0 Sol., 1 Compact, 1 ACSR							
FKLA-R2-S	1 Str., 2/0 Sol., 1/0 Compact, 1 ACSR							
FKLA-010-S	1/0 Str., 1/0 ACSR							
FSLA-W2-S	4 & 3 Str., 2 Sol., 2 Compact, 4 ACSR	1.28	1.38	3.25	.25	.91	840, 249	3
FSLA-C2-S	2 Str., 1/0 Sol., 1 Compact, 2 ACSR							
FSLA-R2-S	1 Str., 2/0 Sol., 1/0 Compact, 1 ACSR							
FSLA-010-S	1/0 Str., 3/0 Sol., 2/0 Compact, 1/0 ACSR							
FSLA-013-S	2/0 Str., 4/0 Sol., 3/0 Compact, 2/0 ACSR							
FSLA-017-S	3/0 Str., 4/0 Compact, 3/0 ACSR							
FSLA-025-S	4/0 Str., 250 kcmil, 250 & 300 Compact, 4/0 ACSR							
FSLA-030-S	300 kcmil, 350 Compact, 266.8 18/1 ACSR							
FULA-010-S	1/0 Str., 3/0 Sol., 2/0 Compact, 1/0 ACSR	1.50	2.38	4.63	.38	1.25	1 1/8-2, 316, 705	3
FULA-013-S	2/0 Str., 4/0 Sol., 3/0 Compact, 2/0 ACSR							
FULA-017-S	3/0 Str., 4/0 Compact, 3/0 ACSR							
FULA-025-S	4/0 Str., 250 kcmil, 250 & 300 Compact, 4/0 ACSR							
FULA-030-S	300 kcmil, 350 Compact, 266.8 18/1 ACSR							
FULA-035-S	350 kcmil, 400 Compact, 336.4 18/1 ACSR							
FULA-R033-S	400 kcmil, 500 Compact, 336.4 26/7 ACSR							
FULA-045-S	450 kcmil, 397.5 18/1, 26/7 ACSR							
FULA-050-S	500 kcmil, 477 18/1 ACSR							

Note: If terminal with 3/8" stud hole is desired, suffix catalog number with "-1"

Aluminum Compression Terminals - Two Hole Tongue Side Formed Types FKLA, FSLA, and FULA

- Manufactured from high strength aluminum alloy
- For aluminum, copper, or ACSR conductors
- Connectors are pre-filled with oxide inhibitor
- Completely closed transitions protect the end of cable from environmental hazards
- Three common barrel O.D. sizes accommodate a range from #10 Str. - 500 kcmil
- Requires only three installation dies to crimp 15 conductor ranges
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					DIE SIZE	NO. OF CRIMPS
		C	D	L	TONGUE THICKNESS	W		
FKLA-W8-D	10 Str., 8 Sol.	3.38	1.50	5.44	.31	1.00	BG, 5/8, 243	3
FKLA-W6-D	8 Str., 6 Sol.							
FKLA-W4-D	6 Str., 4 Sol., 4 Compact, 6 ACSR							
FKLA-W2-D	4 & 3 Str., 2 Sol., 2 Compact, 4 ACSR							
FKLA-C2-D	2 Str., 1/0 Sol., 1 Compact, 2 ACSR							
FKLA-R2-D	1 Str., 2/0 Sol., 1/0 Compact, 1 ACSR							
FKLA-010-D	1/0 Str., 1/0 ACSR							
FSLA-W2-D	4 & 3 Str., 2 Sol., 2 Compact, 4 ACSR	3.38	1.88	5.94	.25	1.25	840, 249	3
FSLA-C2-D	2 Str., 1/0 Sol., 1 Compact, 2 ACSR							
FSLA-R2-D	1 Str., 2/0 Sol., 1/0 Compact, 1 ACSR							
FSLA-010-D	1/0 Str., 3/0 Sol., 2/0 Compact, 1/0 ACSR							
FSLA-013-D	2/0 Str., 4/0 Sol., 3/0 Compact, 2/0 ACSR							
FSLA-017-D	3/0 Str., 4/0 Compact, 3/0 ACSR							
FSLA-025-D	4/0 Str., 250 kcmil, 250 & 300 Compact, 4/0 ACSR							
FSLA-030-D	300 & 350 kcmil, 350 Compact, 266.8 18/1 ACSR	3.50	2.50	6.63	.38	1.50	1 1/8-2, 316, 705	3
FSLA-035-D	350 kcmil, 336.4 18/1 ACSR							
FULA-R2-D	1 Str., 2/0 Sol., 1/0 Compact, 1 ACSR							
FULA-010-D	1/0 Str., 3/0 Sol., 2/0 Compact, 1/0 ACSR							
FULA-013-D	2/0 Str., 4/0 Sol., 3/0 Compact, 2/0 ACSR							
FULA-017-D	3/0 Str., 4/0 Compact, 3/0 ACSR							
FULA-025-D	4/0 Str., 250 kcmil, 250 & 300 Compact, 4/0 ACSR							
FULA-030-D	300 kcmil, 350 Compact, 266.8 18/1 ACSR							
FULA-035-D	350 kcmil, 400 Compact, 336.4 18/1 ACSR							
FULA-R033-D	400 kcmil, 500 Compact, 336.4 26/7 ACSR							
FULA-045-D	450 kcmil, 397.5 18/1, 26/7 ACSR							
FULA-050-D	500 kcmil, 477 18/1 ACSR							

Aluminum Service Wedge Clamps

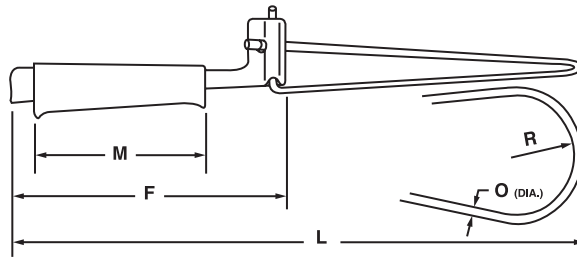
Type WDC

- A service-drop, sliding type dead end clamp for use on solid and stranded aluminum or ACSR conductors
- Saves conductor, drop wire may be cut to exact length
- Adjustments in drop wire sag are easily made
- Solid stainless steel bail



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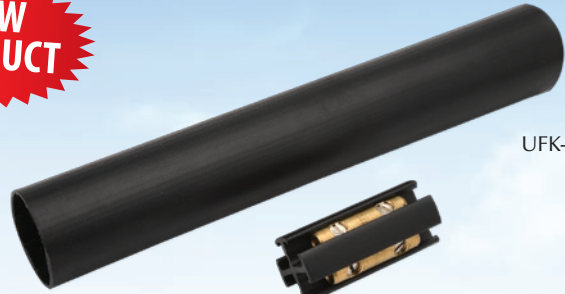


CATALOG NUMBER	CONDUCTOR SIZE			APPROXIMATE DIMENSIONS (IN.)					COLOR CODE
	Conductor Type	Min.	Max.	F	L	M	O	R	
WDC-2S	ACSR	6	2	4.50	10.75	3.00	.13	1.00	Orange
	AAC	6	1						
	AAAC	6	2						
	DIA. (IN.)	.160	.330						
WDC-10S	ACSR	4	1/0	6.88	12.88	3.69	.16	1.00	Blue
	AAC	2	2/0						
	AAAC	4	1/0						
	DIA. (IN.)	.250	.414						
WDC-40S	ACSR	2/0	4/0	7.22	16.67	3.76	.11	1.00	Red
	AAC	2/0	4/0						
	AAAC	2/0	4/0						
	DIA. (IN.)	.414	.563						

UF Splice Kits - For Direct Burial Type UFK and UFSK



- UL Listed for direct burial
- 600 Volts maximum,
221°F (105°C) temperature rating
- Meets the requirements of the
2014 National Electric Code:
Articles: 110.14(B), 300.5(E) and 300.50(D)
- Accommodates: 14/3 without Ground (min.)
8/3 without Ground (max.)



UFK-14-8



UFSK-14-8

CATALOG NUMBER	DESCRIPTION	ORDER UNIT	UNIT QTY.	UNIT PKG.	CARTON QTY.
UFK-14-8	Standard kit includes one (1) 4-position 2.0" mechanical connector and one (1) piece of heat shrink tubing to splice and insulate 14 AWG to 8 AWG	EA	1	BG	24
UFSK-14-8 (Stretcher Kit)	Stretcher kit includes one (1) 4-position 11.5" mechanical connector and one (1) piece of heat shrink tubing to splice and insulate 14 AWG to 8 AWG	EA	1	BG	12

Copper Butt Splice Kits

Type CSK



- UL Listed
- 600 Volts maximum, 221°F (105°C) temperature rating
- Meets the requirements of the 2014 National Electric Code: Articles: 110.14(B), 300.5(E) and 300.50(D)
- Designed to simplify splicing copper conductors



CATALOG NUMBER	UL LISTED WIRE RANGE OF KIT	DESCRIPTION	ORDER UNIT	UNIT QTY.	UNIT PKG.	CARTON QTY.
CSK-14-8	14 - 8 AWG Copper	Butt Splice Kit includes one (1) Copper Butt Splice Connector and one (1) 4 in. piece of Heat Shrink Tube	EA	1	BG	24
CSK-8-2	8 - 2 AWG Copper	Butt Splice Kit includes one (1) Copper Butt Splice Connector and one (1) 4 in. piece of Heat Shrink Tube	EA	1	BG	24

Dual Rated Butt Splice Kits - For Direct Burial

Type ASK



- For use with aluminum and copper conductors
- UL Listed
- 600 Volts maximum, 221°F (105°C) temperature rating
- Meets the requirements of the 2014 National Electric Code: Articles: 110.14(B), 300.5(E) and 300.50(D)

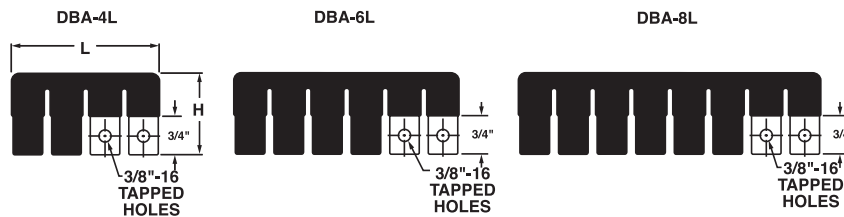
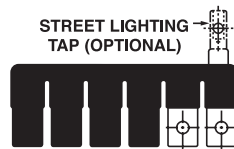


CATALOG NUMBER	UL LISTED WIRE RANGE OF KIT	DESCRIPTION	ORDER UNIT	UNIT QTY.	UNIT PKG.	CARTON QTY.
ASK-8-4	8 - 4 AWG AL/CU	Dual Rated Butt Splice Kit includes one (1) Dual Rated Connector and two (2) Heat Shrink Tubes	EA	1	BG	24
ASK-2-1/0	2 - 1/0 AWG AL/CU	Dual Rated Butt Splice Kit includes one (1) Dual Rated Connector and two (2) Heat Shrink Tubes	EA	1	BG	24
ASK-2/0-250	2/0 - 250 kcmil AL/CU	Dual Rated Butt Splice Kit includes one (1) Dual Rated Connector and two (2) Heat Shrink Tubes	EA	1	BG	24

Underground Direct Burial Service Connectors

Type DBA

- Manufactured from high strength cast aluminum alloy
- For aluminum or copper conductors
- Designed to be used as a multi-tap service junction suitable for use in enclosures and direct burial applications
- Contact pads allow new services to be added as needed without affecting previous installations
- Connector body is insulated with high strength dielectric plastisol
- Insulation will not support combustion and is chemical and abrasion resistant
- Water tight caps can be removed for the addition of the EPDM rubber force-fit insulating sleeves (Type DBTBF)



CATALOG NUMBER	APPROXIMATE DIMENSIONS (IN.)	
	L	H
DBA-4L	5.50	2.38
DBA-6L	8.50	2.38
DBA-8L	11.50	2.38

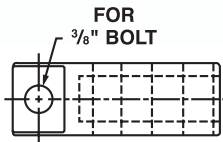
Ordering Information:

- For street lighting tap, suffix catalog number with “-S”
- For insulating sleeve for the street lighting tap, consult factory

Underground Compression Terminal Kits

Type DBTBF

- Kit is designed to be used in conjunction with Underground Multi-Tap Connectors (Type DBA)
- Consists of an aluminum compression lug, hex head cap screw with captive conical pressure washer, and a pre-lubricated force-fit rubber sleeve
- Upon completion of crimp, bolt connector to Type DBA bar and slide force-fit sleeve over joint to obtain a water-tight connection



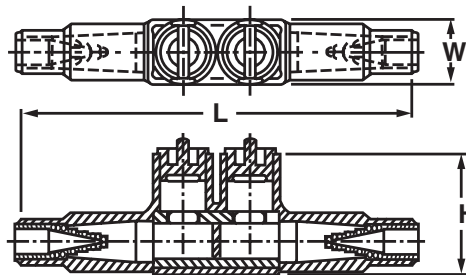
CATALOG NUMBER	CONDUCTOR RANGE		DIE SIZE	INSTALLATION TOOLS & DIES (NO. OF CRIMPS)	
	COPPER	ALUMINUM		TMU-0D3 (MECH. TOOL) WITH "W" DIES	TPU-12B (HYD. TOOL) WITH "U" DIES
DBTBF-C6	6 Str. - 4 Sol.	6 Str. - 4 Sol. 6 Str. Compact	BG, 5/8, 243, EEI 8A	BG (3), 243 (2)	BG (1), 243 (1)
DBTBF-W2	2 Sol. - 4 Str.	2 Sol. - 4 Str. 4 Str. Compact			
DBTBF-C1	2 Str. - 1/0 Sol.	2 Str. - 1/0 Sol. 2 - 1 Str. Compact			
DBTBF-010A	1/0 Str.	1/0 Str. - 2/0 Sol. 1/0 Str. Compact			
DBTBF-013	2/0 Str.	2/0 Str. - 3/0 Sol. 2/0 Str. Compact	249, 840, EEI 11A	249 (3), K840 (5)	249 (*2), K840 (3)
DBTBF-017	3/0 Str.	3/0 Str. - 4/0 Sol. 3/0 Str. Compact			
DBTBF-025	4/0 Str.	4/0 Str. - 250 kcmil 4/0 - 250 Compact			
DBTBF-030	250 kcmil	250 - 300 kcmil 300 Compact	299, 655, 750, EEI 13A	-	299 (2), 655 (3), 705 (2)
DBTBF-035	-	300 - 350 kcmil 350 Compact			

*Overlap compressions

Underground Watertight In-Line Splice

Type ULS

- Manufactured from high strength aluminum alloy and clear plated for low contact resistance and high conductivity
- Mechanical insulated splice for repairing or splicing aluminum or copper conductors in direct burial applications
- Pre-filled with oxide inhibitor
- Accepts wide conductor range
- Rated for 600V, 90°C applications
- Meets specifications:
 - ANSI 119.1
 - Western Underground Guide 2.5
 - ANSI 119.4 for Class A connectors
 - UL 486D

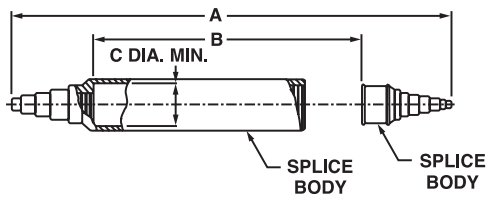


CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)		
		H	W	L
ULS2-350	12 - 350 kcmil	2.48	1.34	8.09

Underground Submersible Cover

Type SSI

- Manufactured 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 being used
- Maintains watertight integrity and full insulating value in all direct burial, underground network, residential and overhead service joints
- Accepts wide conductor range
- Meets specifications:
 - ANSI 119.1
 - Western Underground Guide 2.5
 - ANSI 119.4 for Class A connectors
- Type SSI is a cover only and is supplied with lubricant



CATALOG NUMBER	CONDUCTOR RANGE		ACCOMMODATES CONNECTORS		APPROXIMATE DIMENSIONS (IN.)		
	MECHANICAL	COMPRESSION	MECHANICAL	COMPRESSION	A	B	C
SSI-500	14-350 kcmil	8-500 kcmil	SR2 through SR350-2	BCU8 through 050 BBCU8 through 025 BCUA8 through 050	10.13	4.38	1.34

Bronze Ground Rod Clamps

Types CAB and CEB

- Manufactured from corrosion resistant cast aluminum bronze
- Designed to join a range of cable to copper clad, galvanized steel and stainless steel ground rods
- Slips over end of rod for single wrench installation
- Furnished with silicon bronze hex head bolt
- UL listed for direct burial in earth and concrete
- Socket head screws can be furnished by suffixing catalog number with "-S"
- For tin plating, suffix catalog number with -TN



Heavy Duty Clamps

CATALOG NUMBER	ACCOMMODATES ROD SIZE (IN.)	CONDUCTOR RANGE
CAB-1M	1/2	10 Sol. - 2 Str.
CAB-2M*	5/8	8 Sol. - 1/0 Str.
CAB-3M	3/4	8 Sol. - 1/0 Str.

Economy Clamps

CATALOG NUMBER	ACCOMMODATES ROD SIZE (IN.)	CONDUCTOR RANGE
CEB-1+	1/2	8 Sol. - 2 Str.
CEB-2+	5/8	8 Sol. - 2 Str.
CEB-3•	3/4	8 Sol. - 2 Str.

Standard Clamps

CATALOG NUMBER	ACCOMMODATES ROD SIZE (IN.)	CONDUCTOR RANGE
CAB-0	3/8	14 Sol. - 6 Str.
CAB-1	1/2	10 Sol. - 2 Str.
CAB-2	5/8	8 Sol. - 1/0 Str.
CAB-3	3/4	8 Sol. - 1/0 Str.
CAB-4	3/4	4/0 Str.
CAB-5	1	8 Sol. - 1/0 Str.
CAB-6	1	4/0 Str.

Universal Ground Rod Clamp

CATALOG NUMBER	ACCOMMODATES ROD SIZES (IN.)	CONDUCTOR RANGE
CEB-U	1/2, 5/8, and 3/4	10 Sol. - 1/0 Str.

- * For 1/2" thread bolt and extra long body, use CAB-2ML
- + RUS accepted plain and tin plated
- RUS accepted tin plated only

Copper Lay-In Lugs

Type LI-CU-DB

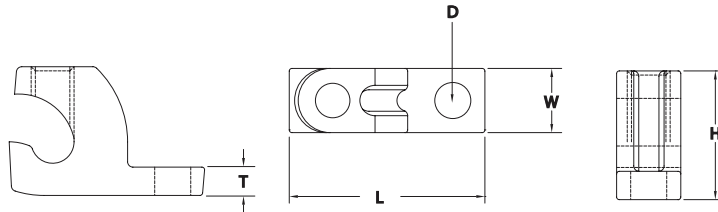
- **Figure 1** is manufactured from high conductivity wrought copper
- **Figure 2** is manufactured from high conductivity cast copper
- Electro-tin plated body and stainless steel set screw ensure minimum contact resistance and protection against corrosion
- Range taking - accommodates copper conductor sizes 4 Str. - 14 Sol.
- Side entrance design permits the quick installation of a continuous conductor run to multiple locations
- Suitable for direct burial in earth or embedment in concrete
- Excellent choice for use on grounding conductors with photovoltaic modules and mounting systems
- **Figure 1** is listed to and complies with the following standards:
UL 467 and CSA C22.2 No.41-13
- **Figure 2** is listed to and complies with the following standards: UL 467, CSA C22.2 No.41-13, UL 2703, and ULC C1703



Fig. 1



Fig. 2



CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)					MTG. BOLT SIZE
			L	W	H	T	D (DIA.)	
LI-50S-CU-DB	1	4 Str. - 14 Sol.	1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-UP	1		1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-UP-HH	1		1.04	.38	.76	.17	.22	3/16
LI-50S-CU-DB-CG*	2		1.14	.38	.75	.17	.21	3/16
LI-50S-CU-DB-C	2		1.14	.38	.75	.17	.21	3/16
LI-50S-CU-DB-CM6	2		1.14	.38	.75	.17	.26	6 mm or 1/4

*Provided with green plated set screw
 - Suffix "-UP" indicates unplated
 - Suffix "-HH" indicates hex head set screw



CONNECTING YOUR TOMORROW.™

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Utilities

Power Transmission

Industrial

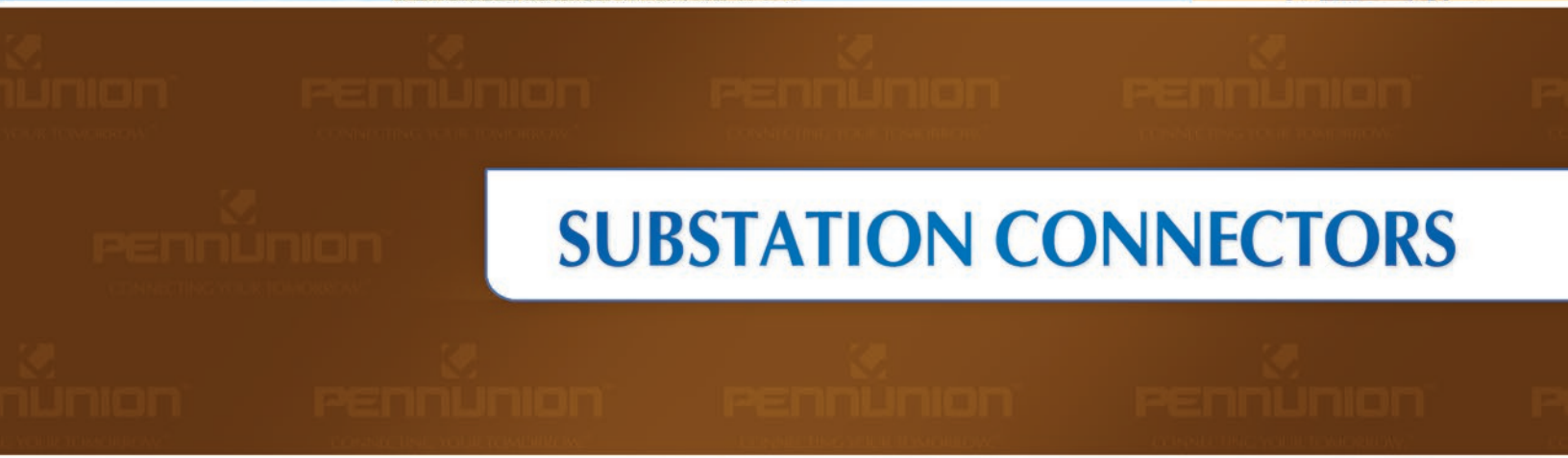
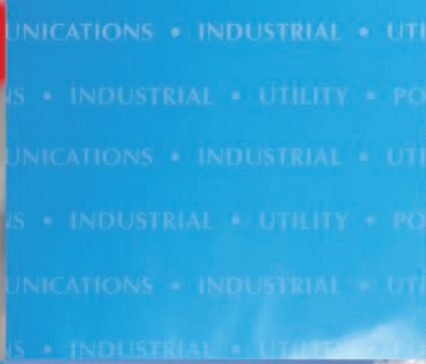
Telecom

Renewable Energy

Aerospace

Rail Systems

MRO



SUBSTATION CONNECTORS

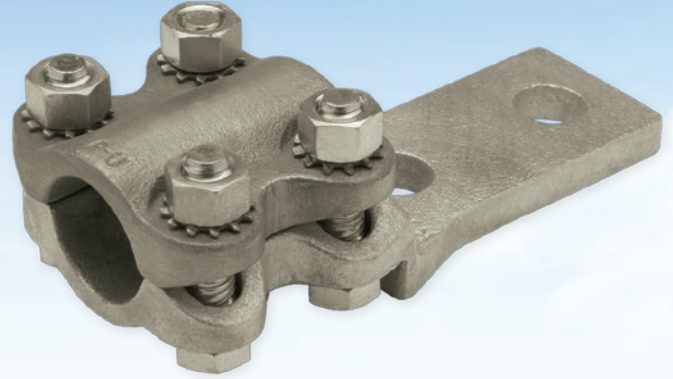


Aluminum Terminals

Types RAA and RAAC

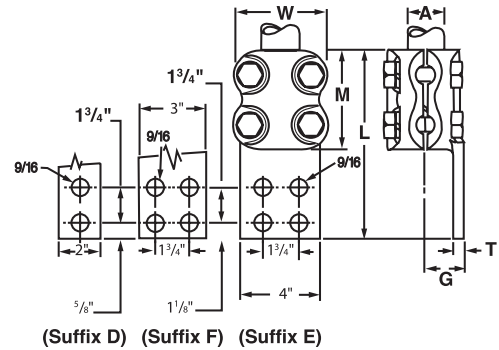
For aluminum tube to flat

- Manufactured from high strength cast aluminum alloy
- Clamping hardware is of high strength, anodized and lubricated 2024-T4 aluminum alloy
- Side formed contact surfaces are standard to allow clearance for flush mounting
- Oxide inhibitor recommended on contact surfaces
- Captive bolt head design permits single wrench installation
- Drilling in pads conforms to NEMA standards for 1/2" hardware
- Special drilling is available upon request
- If copper flashed pad is preferred on tongue, use "RAAC" prefix
- For tin plating, suffix catalog number with "-TN"
- For tongue mounting hardware, suffix catalog number with "-TMH"



RoHS
COMPLIANT

CATALOG NUMBER	A ALUMINUM IPS	APPROXIMATE DIMENSIONS (IN.)					BOLT SIZE
		G	L	M	T	W	
RAA-07-D	3/4	1.19	6.50	3.25	.44	2.63	1/2
RAA-07-F		1.19	6.50	3.25	.44	2.63	1/2
RAA-10-D	1	1.31	6.75	3.50	.44	3.00	1/2
RAA-10-F		1.31	6.75	3.50	.44	3.00	1/2
RAA-12-D	1 1/4	1.56	7.00	3.75	.50	3.56	5/8
RAA-12-F		1.56	7.00	3.75	.50	3.56	5/8
RAA-12-E		1.56	8.00	3.75	.44	3.56	5/8
RAA-15-D	1 1/2	1.44	7.25	4.00	.50	3.88	5/8
RAA-15-F		1.44	7.25	4.00	.50	3.88	1/2
RAA-15-E		1.44	8.25	4.00	.44	3.88	5/8
RAA-20-D	2	1.69	7.63	4.38	.56	4.44	5/8
RAA-20-F		1.69	7.63	4.38	.56	4.44	5/8
RAA-20-E		1.69	8.63	4.38	.44	4.44	5/8
RAA-25-D	2 1/2	2.19	8.00	4.75	.63	5.13	3/4
RAA-25-F		2.19	8.00	4.75	.63	5.13	3/4
RAA-25-E		2.19	9.00	4.75	.50	5.13	3/4
RAA-30-D	3	2.69	8.38	5.13	.75	5.75	3/4
RAA-30-F		2.69	8.38	5.13	.75	5.75	3/4
RAA-30-E		2.69	9.38	5.13	.75	5.75	3/4
RAA-35-D	3 1/2	3.19	8.75	5.50	1.06	6.81	7/8
RAA-35-F		3.19	8.75	5.50	1.06	6.81	7/8
RAA-35-E		3.19	9.75	5.50	1.06	6.81	7/8
RAA-40-D	4	3.44	9.13	5.88	1.19	7.81	7/8
RAA-40-F		3.44	9.13	5.88	1.19	7.81	7/8
RAA-40-E		3.44	10.13	5.88	1.19	7.81	7/8
RAA-50-E	5	3.75	10.75	6.50	1.31	8.94	7/8
RAA-60-E	6	4.25	11.75	7.50	1.75	10.06	7/8

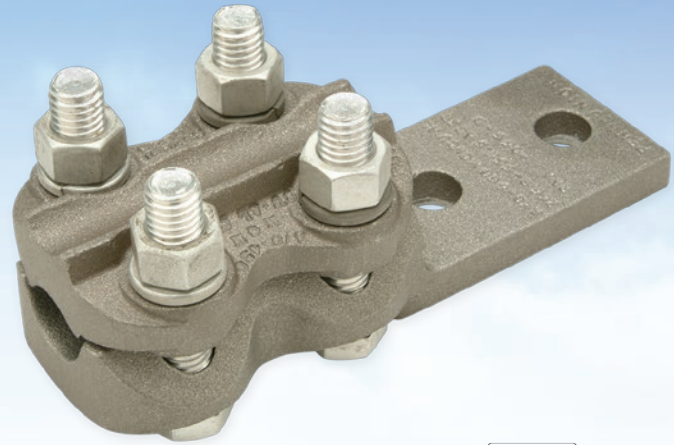


Aluminum Terminals

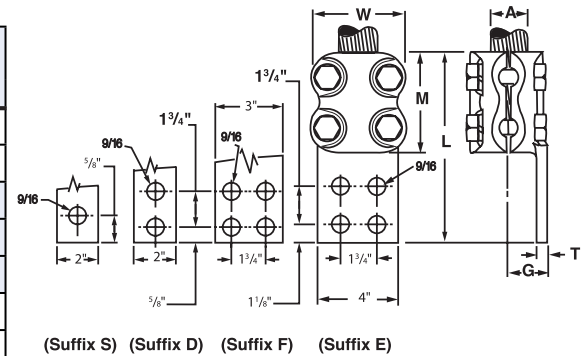
Types RAA and RAAC

For aluminum and ACSR cable to flat

- Manufactured from high strength cast aluminum alloy
- Clamping hardware is of high strength, anodized and lubricated 2024-T4 aluminum alloy
- Side formed contact surfaces are standard to allow clearance for flush mounting
- Oxide inhibitor recommended on contact surfaces
- Reversible cap allows for expanded conductor range
- Captive bolt head design permits single wrench installation
- Drilling in pads conforms to NEMA standards for 1/2" hardware
- Special drilling is available upon request
- If copper flashed pad is preferred on tongue, use "RAAC" prefix
- For tin plating, suffix catalog number with "-TN"
- For tongue mounting hardware, suffix catalog number with "-TMH"



CATALOG NUMBER	A CONDUCTOR RANGE		APPROXIMATE DIMENSIONS (IN.)					BOLT SIZE
	ALUMINUM	ACSR	G	L	M	T	W	
RAA-013-S*	6 Str. - 2/0 Str.	6 - 2/0	.75	3.88	2.00	.38	2.06	1/2
RAA-013-D*			.75	5.25	2.00	.38	2.06	1/2
RAA-025-S	6 Str. - 250 kcmil	6 - 4/0	.88	4.63	2.75	.38	2.13	1/2
RAA-025-D			.88	6.00	2.75	.38	2.13	1/2
RAA-025-F			.88	6.00	2.75	.38	2.13	1/2
RAA-040-D	3/0 Str. - 400 kcmil	3/0 - 336.4	.94	6.25	3.00	.38	2.25	1/2
RAA-040-F			.94	6.25	3.00	.38	2.25	1/2
RAA-065-D	250 - 650 kcmil	266.8 - 556.5	1.00	6.75	3.50	.44	2.63	1/2
RAA-065-F			1.00	6.75	3.50	.44	2.63	1/2
RAA-065-E			1.00	7.75	3.50	.38	2.63	1/2
RAA-090-D	500 - 900 kcmil	477 - 795	1.06	7.00	3.75	.44	2.75	1/2
RAA-090-F			1.06	7.00	3.75	.44	2.75	1/2
RAA-090-E			1.06	8.00	3.75	.38	2.75	1/2
RAA-125-D	600 - 1250 kcmil	556.5 - 1113	1.19	7.50	4.25	.44	3.38	5/8
RAA-125-F			1.19	7.50	4.25	.44	3.38	5/8
RAA-125-E			1.19	8.50	4.25	.44	3.38	5/8
RAA-160-D	900 - 1600 kcmil	795 - 1431	1.25	7.75	4.50	.44	3.50	5/8
RAA-160-F			1.25	7.75	4.50	.44	3.50	5/8
RAA-160-E			1.25	8.75	4.50	.44	3.50	5/8
RAA-200-D	1250 - 2000 kcmil	1113 - 1780	1.44	8.25	5.00	.50	4.00	3/4
RAA-200-F			1.44	8.25	5.00	.50	4.00	3/4
RAA-200-E			1.44	9.25	5.00	.50	4.00	3/4
RAA-300-D	2000 - 3000 kcmil	1780 - 2870	2.13	8.50	5.25	1.38	4.50	3/4
RAA-300-F			2.13	8.50	5.25	1.00	4.50	3/4
RAA-300-E			2.13	9.50	5.25	.75	4.50	3/4



SUBSTATION CONNECTORS

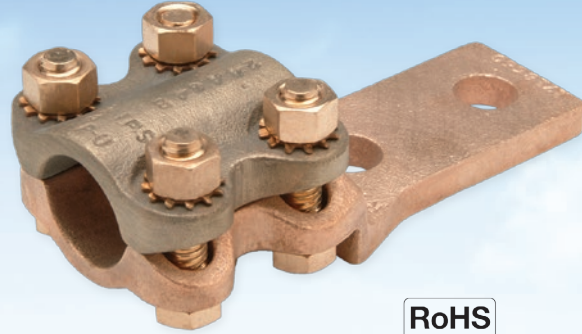
*Denotes 2 bolt clamping

Bronze Terminals

Type RA

For copper tube to flat

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Side formed contact surfaces are standard to allow clearance for flush mounting
- Drilling in pads conforms to NEMA standards for 1/2" hardware
- For tin plating, suffix catalog number with "-TN"



RoHS
COMPLIANT

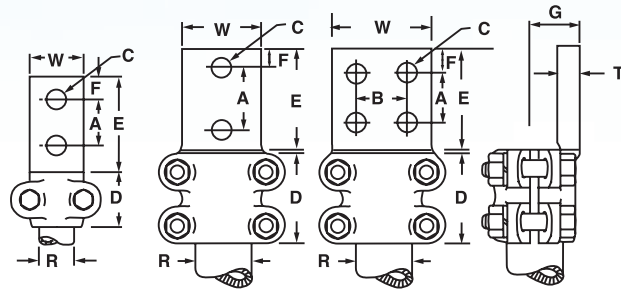


Fig. 1

Fig. 2

Fig. 3

CATALOG NUMBER	FIG. NO.	R IPS SIZE	APPROXIMATE DIMENSIONS (IN.)									BOLT SIZE
			W	A	B	C	D	E	F	T	G	
RA-03-2B*	1	3/8	1.38	1.00	-	.44	1.38	2.00	.44	.25	.88	3/8
RA-03-2N	1		1.38	1.75	-	.56	1.38	3.00	.56	.28	.88	3/8
RA-05-2B*	1	1/2	1.50	1.13	-	.44	1.50	2.00	.44	.31	.88	3/8
RA-05-2N	2		1.50	1.75	-	.56	2.25	3.00	.56	.31	.88	3/8
RA-07-2B*	2	3/4	1.50	1.38	-	.44	2.00	2.25	.44	.31	.81	3/8
RA-07-2N	2		1.50	1.75	-	.56	2.00	3.00	.56	.31	.81	3/8
RA-07-F	3		3.00	1.75	1.75	.56	2.00	3.00	.56	.38	.88	3/8
RA-10-2B*	2	1	2.00	1.38	-	.44	2.25	2.38	.44	.38	1.00	3/8
RA-10-D	2		2.00	1.75	-	.56	2.25	3.25	.56	.38	1.00	3/8
RA-10-F	3		3.00	1.75	1.75	.56	2.25	3.25	.56	.31	.94	3/8
RA-12-D	2	1 1/4	2.00	1.75	-	.56	2.75	3.00	.56	.44	1.25	1/2
RA-12-F	3		3.00	1.75	1.75	.56	2.75	3.00	.56	.34	1.16	1/2
RA-12-E	3		4.00	1.75	1.75	.56	2.75	4.00	1.13	.31	1.13	1/2
RA-15-D	2	1 1/2	2.00	1.75	-	.56	2.75	3.00	.56	.44	1.25	1/2
RA-15-F	3		3.00	1.75	1.75	.56	2.75	3.00	.56	.50	1.31	1/2
RA-15-E	3		4.00	1.75	1.75	.56	2.75	4.00	1.13	.38	1.19	1/2
RA-20-D	2	2	2.00	1.75	-	.56	2.75	3.00	.56	.50	1.69	1/2
RA-20-F	3		3.00	1.75	1.75	.56	2.75	3.00	.56	.50	1.69	1/2
RA-20-E	3		4.00	1.75	1.75	.56	2.75	4.00	1.13	.44	1.63	1/2
RA-25-D	2	2 1/2	2.00	1.75	-	.56	2.75	3.00	.56	.69	2.00	1/2
RA-25-F	3		3.00	1.75	1.75	.56	2.75	3.00	.56	.69	2.00	1/2
RA-25-E	3		4.00	1.75	1.75	.56	2.75	4.00	1.13	.63	1.94	1/2
RA-30-F	3	3	3.00	1.75	1.75	.56	3.25	3.00	.56	.69	2.50	5/8
RA-30-E	3		4.00	1.75	1.75	.56	3.25	4.00	1.13	.63	2.44	5/8
RA-35-F	3	3 1/2	3.00	1.75	1.75	.56	3.25	3.00	.56	.75	2.69	5/8
RA-35-E	3		4.00	1.75	1.75	.56	3.25	4.00	1.13	.75	2.69	5/8
RA-40-F	3	4	3.00	1.75	1.75	.56	3.25	3.00	.56	.75	3.13	5/8
RA-40-E	3		4.00	1.75	1.75	.56	3.25	4.00	1.13	.75	3.13	5/8

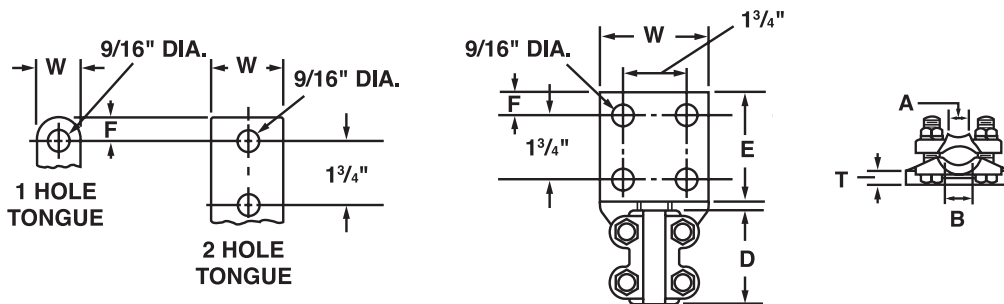
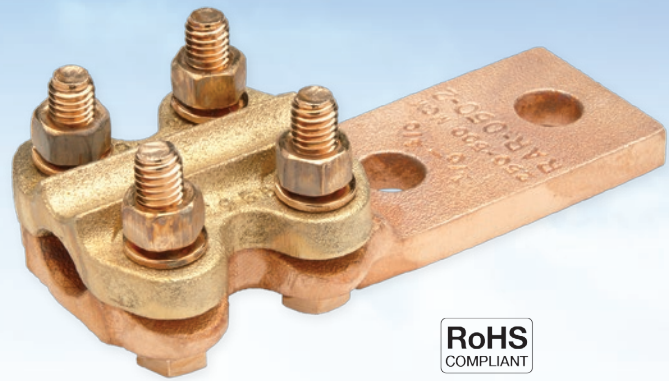
* Two hole pad drilling accommodates 3/8" hardware

Bronze Terminals

Type RAR

For copper cable to flat

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Reversible cap allows for expanded conductor range
- Side formed contact surfaces are standard and allow clearance for flush mounting
- Drilling in pads conforms to NEMA standards for 1/2" hardware
- For tin plating, suffix catalog number with "-TN"



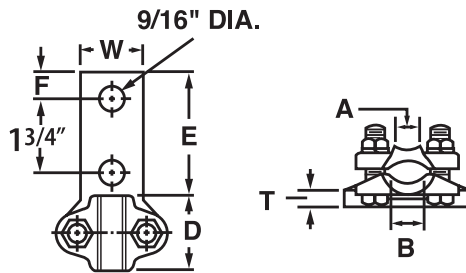
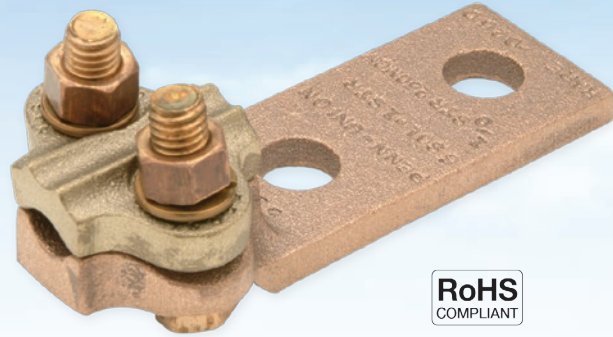
CATALOG NUMBER	A COPPER CONDUCTOR RANGE	B COPPER CONDUCTOR RANGE	NO. OF HOLES IN TONGUE	APPROXIMATE DIMENSIONS (IN.)					BOLT SIZE
				D	E	F	T	W	
RAR-021-S	8 Sol. - 1 Str.	1/0 Str. - 4/0 Str.	1	2.25	1.75	.75	.31	1.50	3/8
RAR-021-D	6 Str. - 1 Str.	1/0 Str. - 4/0 Str.	2	2.25	3.00	.63	.25	1.50	3/8
RAR-025-D	6 Sol. - 1 Str.	1/0 Str. - 250 kcmil	2	2.50	3.00	.63	.25	1.50	3/8
RAR-025-DH			2	2.50	3.00	.63	.25	1.50	1/2
RAR-025-F	4 Sol. - 1/0 Str.	2/0 Str. - 250 kcmil	4	2.50	3.00	.63	.25	3.00	3/8
RAR-025-FH			4	2.50	3.00	.63	.25	3.00	1/2
RAR-050-D	1/0 Str. - 4/0 Str.	250 - 500 kcmil	2	2.50	3.00	.63	.38	1.75	3/8
RAR-050-DH			2	2.50	3.00	.63	.38	1.75	1/2
RAR-050-F			4	2.50	3.00	.63	.38	3.00	3/8
RAR-050-FH			4	2.50	3.00	.63	.38	3.00	1/2
RAR-080-D	2 Sol. - 4/0 Str.	250 - 800 kcmil	2	2.50	3.00	.63	.41	2.00	1/2
RAR-080-F			4	2.50	3.00	.63	.41	3.00	1/2
RAR-100-D	4/0 Str. - 550 kcmil	600 - 1000 kcmil	2	3.00	3.00	.63	.44	2.00	1/2
RAR-100-F			4	3.00	3.00	.63	.38	3.00	1/2
RAR-200-D	500 - 1000 kcmil	1100 - 2000 kcmil	2	5.25	3.00	.63	.56	1.50	1/2
RAR-200-F			4	5.25	3.00	.63	.50	3.00	1/2

Bronze Terminals

Type RARE

For copper cable to flat

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Reversible cap allows for expanded conductor range
- Side formed contact surfaces are standard and allow clearance for flush mounting
- Drilling in pads conforms to NEMA standards for 1/2" hardware
- For tin plating, suffix catalog number with "-TN"



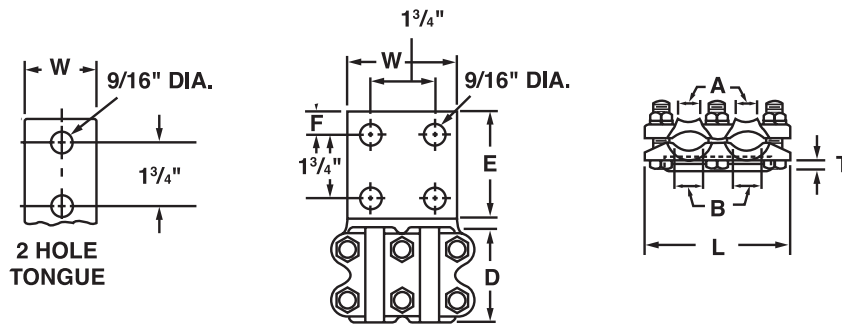
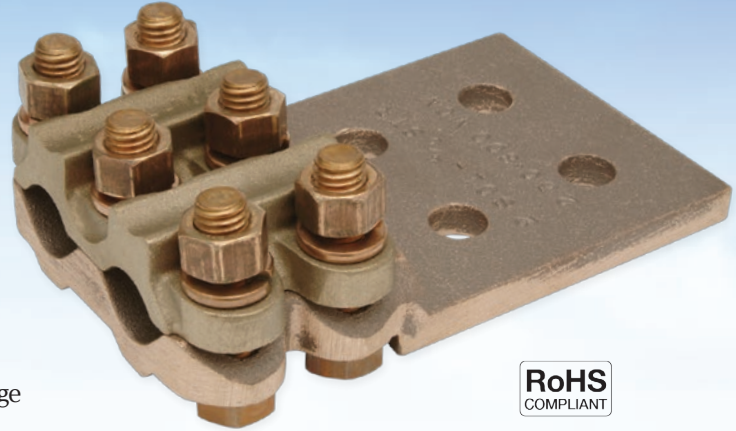
CATALOG NUMBER	A COPPER CONDUCTOR RANGE	B COPPER CONDUCTOR RANGE	NO. OF HOLES IN TONGUE	APPROXIMATE DIMENSIONS (IN.)					BOLT SIZE
				D	E	F	T	W	
RARE-025-D	6 Sol. - 1 Str.	1/0 Str. - 250 kcmil	2	1.50	3.00	.63	.25	1.50	3/8
RARE-050-D	1/0 Str. - 4/0 Str.	250 - 500 kcmil		1.75					

Bronze Terminals

Type RAR2

For two copper cables to flat

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Reversible cap allows for expanded conductor range
- Side formed contact surfaces are standard and allow clearance for flush mounting
- Drilling in pads conform to NEMA standards for 1/2" hardware
- For tin plating, suffix catalog number with "-TN"

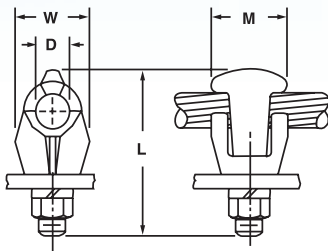


CATALOG NUMBER	A COPPER CONDUCTOR RANGE	B COPPER CONDUCTOR RANGE	NO. OF HOLES IN TONGUE	APPROXIMATE DIMENSIONS (IN.)						BOLT SIZE
				D	E	F	T	W	L	
RAR2-025-D	6 Sol. - 1 Str.	1/0 Str. - 250 kcmil	2	2.50	3.00	.63	.25	2.00	3.63	1/2
RAR2-025-F	6 Sol. - 4/0 Str.	2/0 Str. - 250 kcmil	4	2.50	3.00	.63	.25	3.00	3.63	1/2
RAR2-050-D	1/0 Str. - 4/0 Str.	250 - 500 kcmil	2	2.50	3.00	.63	.25	2.50	4.13	1/2
RAR2-050-E			4	2.50	4.00	1.13	.38	4.00	4.13	3/8
RAR2-080-D	2 Sol. - 4/0 Str.	250 - 800 kcmil	2	2.34	3.00	.63	.50	2.50	4.25	1/2
RAR2-080-E			4	2.34	4.00	1.13	.41	4.00	4.25	1/2
RAR2-100-D	4/0 Str. - 550 kcmil	600 - 1000 kcmil	2	3.00	3.00	.63	.50	2.50	4.56	1/2
RAR2-100-E			4	3.00	4.00	1.13	.50	4.00	4.56	1/2
RAR2-200-D	500 - 1000 kcmil	1100 - 2000 kcmil	2	5.25	3.00	.63	.56	2.50	5.38	1/2
RAR2-200-E			4	5.25	4.00	.63	.50	4.00	5.38	1/2

Bronze Eyebolt Connectors

Types LS and LSN

- Manufactured from high strength copper alloy
- Designed to secure copper cable to flat studs, transformer spades, or copper bus
- Furnished with silicon bronze hardware for corrosion resistance
- Single wrench installation
- For tin plating, suffix catalog number with “-TN”



For 1/4" Thick Bar

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
		D	L	M	W	
LSN-2/0N	8 Sol. - 2/0 Str.	.44	2.38	1.38	1.00	1/2
LS-2/0	8 Sol. - 2/0 Str.	.44	2.00	1.25	1.00	3/8
LSN-025N	6 Sol. - 250 kcmil	.63	2.56	1.25	1.06	1/2
LSN-035N	2 Sol. - 350 kcmil	.81	3.06	1.25	1.31	1/2
LSN-050N	1/0 Sol. - 500 kcmil	.94	3.25	1.25	1.44	1/2
LSN-075	350 - 750 kcmil	1.06	3.19	1.50	1.59	1/2
LSN-100N	2/0 Sol. - 1000 kcmil	1.25	4.25	1.72	1.69	1/2

For 1/4" to 3/4" Thick Bar

CATALOG NUMBER	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
		D	L	M	W	
LS-C1E	10 Sol. - 1 Str.	.34	2.38	1.06	.88	3/8
LSN-2/0NE	8 Sol. - 2/0 Str.	.44	2.75	1.38	1.00	1/2
LS-2/0E	8 Sol. - 2/0 Str.	.44	2.50	1.25	1.00	3/8
LSN-025NE	6 Sol. - 250 kcmil	.63	3.06	1.25	1.06	1/2
LSN-035NE	2 Sol. - 350 kcmil	.81	3.31	1.25	1.31	1/2
LSN-050NE	1/0 Sol. - 500 kcmil	.94	3.75	1.25	1.44	1/2
LSN-075E	350 - 750 kcmil	1.06	3.69	1.50	1.56	1/2
LSN-100NE	2/0 Sol. - 1000 kcmil	1.25	4.50	1.72	1.69	1/2
LS-150E	1000 - 1500 kcmil	1.50	4.38	2.25	2.50	1/2
LS-200E	500 - 2000 kcmil	1.72	5.25	2.25	2.75	1/2

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

Bronze Eyebolt Connectors

Types LD and LDN

- Manufactured from high strength copper alloy
- Designed to secure copper cable to flat studs, transformer spades, or copper bus
- Furnished with silicon bronze hardware for corrosion resistance
- Single wrench installation
- For tin plating, suffix catalog number with “-TN”

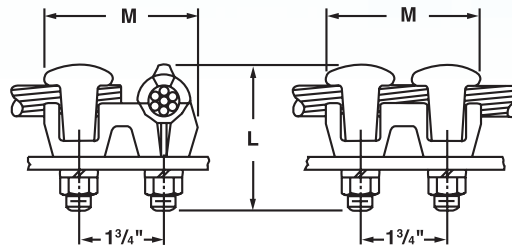


Fig. 1

Fig. 2

For 1/4" Thick Bar

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
			D	L	M	W	
LDN-2/0N	2	8 Sol. - 2/0 Str.	.44	2.31	2.81	.91	1/2
LDN-2/0N2	1	8 Sol. - 2/0 Str.	.44	2.38	3.13	1.38	
LDN-025N	2	6 Str. - 250 kcmil	.63	2.56	3.00	1.06	
LDN-025N2	1	6 Str. - 250 kcmil	.63	2.63	3.38	1.63	
LDN-035N	2	2 Sol. - 350 kcmil	.81	3.31	3.00	1.31	
LDN-050N	2	1/0 Sol. - 500 kcmil	.94	3.25	3.00	1.44	
LDN-075	2	350 - 750 kcmil	1.06	3.19	3.25	1.59	
LDN-100N	2	2/0 Sol. - 1000 kcmil	1.25	3.19	3.44	1.69	

For 1/4" to 3/4" Thick Bar

CATALOG NUMBER	FIG. NO.	CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE
			D	L	M	W	
LDN-2/0N2E	1	8 Sol. - 2/0 Str.	.44	2.88	3.13	1.38	1/2
LDN-025NE	2	6 Sol. - 250 kcmil	.63	3.06	3.00	1.06	
LDN-025N2E	1	6 Sol. - 250 kcmil	.63	3.06	3.38	1.63	
LDN-035NE	2	2 Sol. - 350 kcmil	.81	3.31	3.00	1.31	
LDN-050NE	2	1/0 Sol. - 500 kcmil	.94	3.75	3.00	1.44	
LDN-075E	2	350 - 750 kcmil	1.06	3.69	3.25	1.59	
LDN-100NE	2	2/0 Sol. - 1000 kcmil	1.25	4.06	3.44	1.69	
LD-200E	2	500 - 2000 kcmil	1.72	5.25	4.00	2.75	

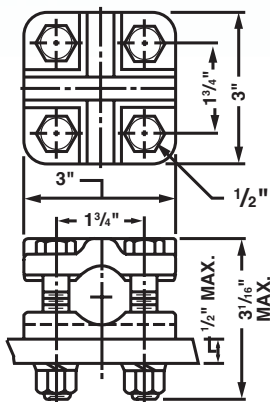
"2" in suffix indicates two-way cable entrance

Terminal Connector

Type CTB

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

- Manufactured from high strength bronze 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 pads up to 1/2 in. thick

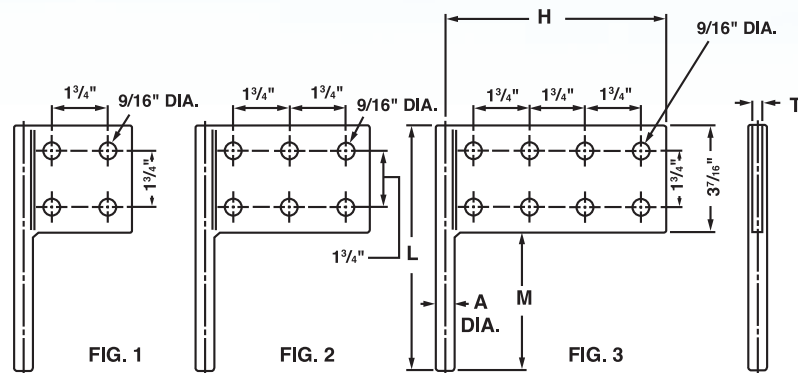


CATALOG NUMBER	CONDUCTOR RANGE	IPS RANGE
CTB-100	6 Sol. - 1000 kcmil	1/8 - 3/4

Copper Transformer Adaptor Terminals

Type FT

- Manufactured from high strength cast copper alloy
- Tin plated for corrosion resistance
- Drilling in pad conforms to NEMA standards for 1/2" hardware
- Provides for multiple take-offs from the transformer secondary connector



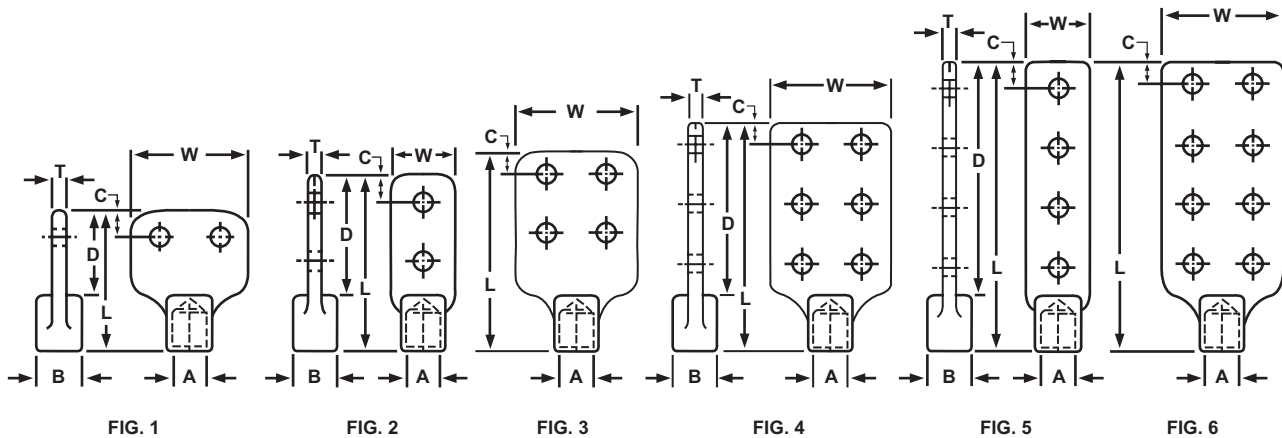
CATALOG NUMBER	FIG. NO.	APPROXIMATE DIMENSIONS (IN.)				
		A (DIA.)	M	H	L	T
FT-4-037	1	.38	1.75	3.63	5.19	.25
FT-4-056		.56	2.00	3.09	5.44	.38
FT-4-075		.75	2.50	3.81	5.94	.38
FT-4-087		.88	3.75	3.88	7.19	.38
FT-4-118		1.19	4.25	4.06	7.69	.38
FT-6-037	2	.38	1.75	5.38	5.16	.25
FT-6-056		.56	2.00	5.47	5.44	.38
FT-6-075		.75	2.50	5.56	5.94	.38
FT-6-087		.88	3.75	5.63	7.19	.38
FT-6-118		1.19	4.25	5.81	7.69	.38
FT-8-037	3	.38	1.75	7.13	5.19	.25
FT-8-056		.56	2.00	7.22	5.44	.38
FT-8-075		.75	2.50	7.31	5.94	.38
FT-8-087		.88	3.75	7.38	7.19	.38
FT-8-118		1.19	4.25	7.56	7.69	.38

Tinned Bronze Transformer Spade Terminals

Type UTS

For stud to single or multiple bus bar vertical takeoffs

- Manufactured from high copper content alloy and electroplated
- For use with aluminum or copper compression or bolted type lugs
- Terminal lug mounting holes are 9/16" diameter with 1-3/4" NEMA spacing
- Can be supplied with studs bonded to terminal by adding suffix "-S" to catalog number
- Can be supplied with stud locking set screws by adding suffix "-SS" to catalog number (1 ea. stud locking set screw provided on all sizes except where "A" dimension is 1-14, which has 2 ea. stud locking set screws)



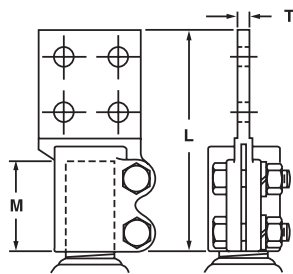
CATALOG NUMBER	FIGURE NUMBER	APPROXIMATE DIMENSIONS						
		A	B	C	D	L	T	W
UTS-0316-2	1	3/8 - 16	.88	.63	2.38	4.00	.25	3.50
UTS-0316-2L	2	3/8 - 16	.88	.75	3.50	5.06	.31	1.38
UTS-0316-4	3	3/8 - 16	.88	.63	4.13	5.75	.25	3.50
UTS-0316-4L	5	3/8 - 16	.88	.75	6.81	8.38	.31	1.38
UTS-0513-2	1	1/2 - 13	.88	.63	2.38	4.00	.25	3.50
UTS-0513-2L	2	1/2 - 13	.88	.75	3.50	5.06	.31	1.38
UTS-0513-4	3	1/2 - 13	.88	.63	4.13	5.75	.25	3.50
UTS-0513-4L	5	1/2 - 13	.88	.75	7.00	8.38	.31	1.38
UTS-0611-2	1	5/8 - 11	.88	.63	2.38	4.00	.25	3.50
UTS-0611-2L	2	5/8 - 11	.88	.75	3.50	5.06	.31	1.38
UTS-0611-4	3	5/8 - 11	.88	.63	4.13	5.75	.25	3.50
UTS-0611-4L	5	5/8 - 11	.88	.75	7.00	8.38	.31	1.38
UTS-1014-2	1	1 - 14	1.38	.63	2.38	4.00	.38	3.50
UTS-1014-2L	2	1 - 14	1.38	.75	3.56	5.13	.34	1.94
UTS-1014-4	3	1 - 14	1.38	.63	4.13	5.75	.38	3.50
UTS-1014-4L	5	1 - 14	1.44	.75	7.06	9.44	.34	1.94
UTS-1014-6	4	1 - 14	1.38	.63	5.13	6.69	.38	3.50
UTS-1014-8	6	1 - 14	1.38	.63	6.88	9.44	.38	3.50

Bronze Stud Connectors

Type SLB

For stud to single or multiple bus bar vertical takeoffs

- Manufactured from high strength copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Captive bolt design permits single wrench installation
- Double bolt clamping provides additional secureness on threaded stud
- Drilling in pads conforms to NEMA standards for 1/2" hardware
- For tin plating, suffix catalog number with "-TN"



TYPE SLB

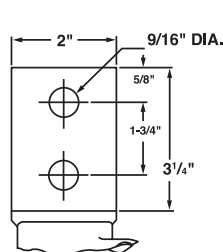


FIG. 1
(SUFFIX-D)

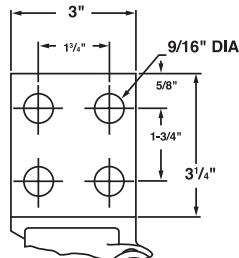


FIG. 2
(SUFFIX-F)

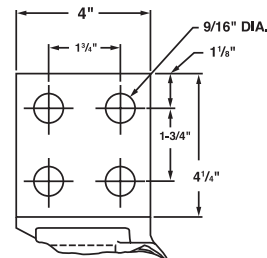
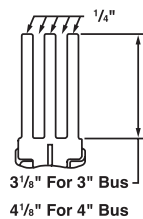


FIG. 3
(SUFFIX-E)



MULTI-TONGUE
(ILLUSTRATION 3 BAR)

CATALOG NUMBER	FIG. NO.	STUD THREAD SIZE	NO. OF BARS	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE		
				L	M	T			
SLB-0513-D	1	1/2-13	1	5.25	1.75	.25	3/8		
SLB-0513-F	2		1	5.25	1.75	.25			
SLB-0611-D	1	5/8-11	1	5.25	1.75	.25	3/8		
SLB-0611-F	2		1	5.25	1.75	.25			
SLB-0716-D	1	3/4-16	1	5.25	1.75	.25	3/8		
SLB-0716-F	2		1	5.25	1.75	.25			
SLB-1014-D	1	1-14	1	6.00	2.25	.38	1/2		
SLB-1014-F	2		1	6.00	2.25	.38			
SLB-1014-E	3		1	7.00	2.25	.38			
SLB-1014-2D	1		2	5.88	2.25	.25			
SLB-1014-2F	2		2	5.88	2.25	.25			
SLB-1014-2E	3		2	6.88	2.25	.25			
SLB-1112-D	1		1 1/8-12	1	6.00	2.25		.38	1/2
SLB-1112-F	2			1	6.00	2.25		.38	
SLB-1112-E	3	1		7.00	2.25	.38			
SLB-1112-2D	1	2		5.88	2.25	.25			
SLB-1112-2F	2	2		5.88	2.25	.25			
SLB-1112-2E	3	2		6.88	2.25	.25			

SUBSTATION CONNECTORS

Bronze Stud Connectors Type SLB (continued)

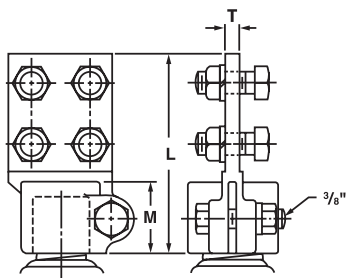
CATALOG NUMBER	FIG. NO.	STUD THREAD SIZE	NO. OF BARS	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
				L	T	M	
SLB-1212-D	1	1 1/4-12	1	6.50	.38	2.75	1/2
SLB-1212-F	2		1	6.50	.38	2.75	
SLB-1212-E	3		1	7.50	.38	2.75	
SLB-1212-2D	1		2	6.38	.25	2.75	
SLB-1212-2	2		2	6.38	.25	2.75	
SLB-1212-2E	3		2	7.38	.25	2.75	
SLB-1512-D	1	1 1/2-12	1	6.50	.38	2.75	1/2
SLB-1512-F	2		1	6.50	.38	2.75	
SLB-1512-E	3		1	7.50	.38	2.75	
SLB-1512-2D	1		2	6.38	.25	2.75	
SLB-1512-2F	2		2	6.38	.25	2.75	
SLB-1512-2E	3		2	7.38	.25	2.75	
SLB-1512-3D	1		3	6.38	.25	2.75	
SLB-1512-3F	2		3	6.38	.25	2.75	
SLB-1512-3E	3		3	7.38	.25	2.75	
SLB-2012-F	2	2-12	1	6.38	.50	2.69	1/2
SLB-2012-E	3		1	7.38	.50	2.69	
SLB-2012-2F	2		2	6.25	.25	2.69	
SLB-2012-2E	3		2	7.25	.25	2.69	
SLB-2012-3F	2		3	6.25	.25	2.69	
SLB-2012-3E	3		3	7.25	.25	2.69	
SLB-2512-F	2	2 1/2-12	1	6.63	.50	2.75	1/2
SLB-2512-E	3		1	7.63	.50	2.75	
SLB-2512-2F	2		2	6.50	.25	2.75	
SLB-2512-2E	3		2	7.50	.25	2.75	
SLB-2512-3F	2		3	6.50	.25	2.75	
SLB-2512-3E	3		3	7.50	.25	2.75	
SLB-3012-F	2	3-12	1	7.13	.75	3.25	5/8
SLB-3012-E	3		1	8.13	.75	3.25	
SLB-3012-2F	2		2	7.00	.25	3.25	
SLB-3012-2E	3		2	8.00	.25	3.25	
SLB-3012-3F	2		3	7.00	.25	3.25	
SLB-3012-3E	3		3	8.00	.25	3.25	
SLB-3512-F	2	3 1/2-12	1	7.13	.75	3.25	5/8
SLB-3512-E	3		1	8.13	.75	3.25	
SLB-3512-2F	2		2	7.00	.25	3.25	
SLB-3512-2E	3		2	8.00	.25	3.25	
SLB-3512-3F	2		3	7.00	.25	3.25	
SLB-3512-3E	3		3	8.00	.25	3.25	
SLB-4012-2E	3	4-12	2	9.25	.25	3.75	5/8
SLB-4012-3F	2		3	8.25	.25	3.75	
SLB-4012-3E	3		3	9.25	.25	3.75	
SLB-4012-4E	3		4	9.25	.25	3.75	

Bronze Stud Connectors

Type SSLB

For stud to single or multiple bus bar verticle takeoffs

- Manufactured from high strength copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Captive bolt design permits single wrench installation
- Single bolt clamp secures connector to threaded stud
- Drilling in pads conforms to NEMA standards for 1/2" hardware
- Silicon bronze tongue mounting hardware is supplied
- For tin plating, suffix catalog number with "-TN"



TYPE SSLB

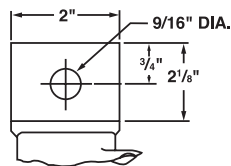


FIG. 1
(SUFFIX-S)

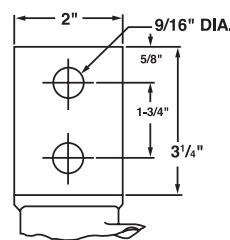


FIG. 2
(SUFFIX-D)

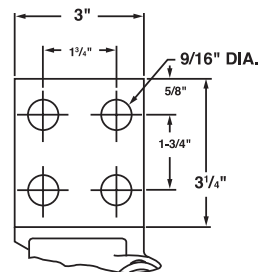


FIG. 3
(SUFFIX-F)

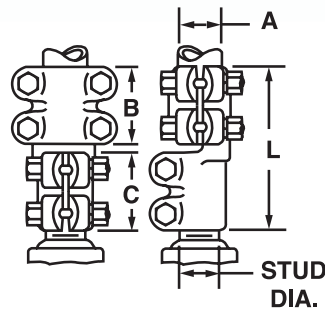
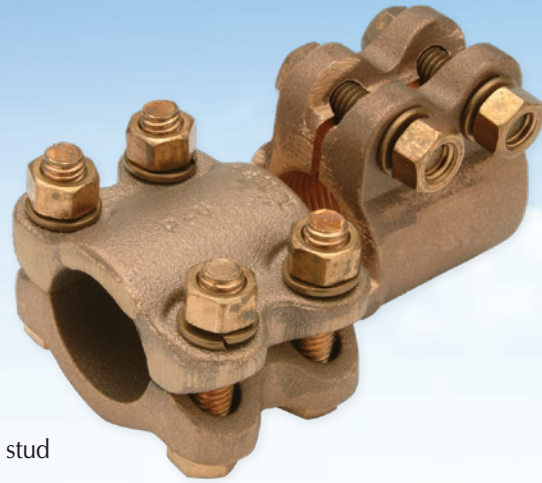
CATALOG NUMBER	FIG. NO.	STUD THREAD SIZE	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			L	M	T	
SSLB-0513-S	1	1/2-13	4.00	1.50	.25	3/8
SSLB-0513-D	2		5.25			
SSLB-0611-S	1	5/8-11	4.25			
SSLB-0611-D	2		5.25			
SSLB-0716-S	1	3/4-16	3.88			
SSLB-0716-D	2		5.00			
SSLB-1014-S	1	1-14	4.00			
SSLB-1014-D	2		5.00			
SSLB-1112-D	2	1 1/8-12	5.38			
SSLB-1112-F	3		5.25			
SSLB-1212-D	2	1 1/4-12	5.13			
SSLB-1212-F	3		5.25			
SSLB-1512-D	2	1 1/2-12	5.25			
SSLB-1512-F	3		5.13			

Bronze Stud Connectors

Type TS

For stud to tube vertical takeoff

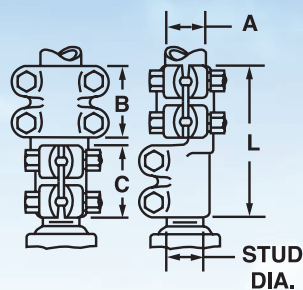
- Manufactured from high strength copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Captive bolt design permits single wrench installation
- Double bolt clamping provides additional secureness on threaded stud
- Four bolt clamping provided for tube end connection
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	STUD THREAD SIZE	A IPS SIZE	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			B	C	L	
TS-0513-05	1/2-13	1/2	1.94	1.38	3.50	3/8
TS-0513-07		3/4	1.94	1.88	3.94	3/8
TS-0513-10		1	1.94	1.88	3.94	3/8
TS-0716-05	3/4-16	1/2	1.94	1.94	3.94	3/8
TS-0716-07		3/4	1.94	1.94	4.06	3/8
TS-0716-10		1	1.94	1.94	4.06	3/8
TS-0716-12		1 1/4	2.19	1.94	4.31	3/8
TS-1014-05	1-14	1/2	1.94	1.88	4.13	3/8
TS-1014-07		3/4	1.94	1.88	4.00	3/8
TS-1014-10		1	1.94	1.88	4.00	3/8
TS-1014-12		1 1/4	2.13	1.94	4.38	3/8
TS-1014-15		1 1/2	2.69	2.69	5.63	1/2
TS-1014-20		2	2.69	2.69	5.63	1/2
TS-1112-05	1 1/8-12	1/2	1.94	1.94	4.19	3/8
TS-1112-07		3/4	1.94	1.94	4.13	3/8
TS-1112-10		1	1.94	1.94	4.25	3/8
TS-1112-12		1 1/4	2.69	2.69	5.50	1/2
TS-1112-15		1 1/2	2.69	2.69	5.63	1/2
TS-1112-20		2	2.69	2.69	5.88	1/2

continued next page

Bronze Stud Connectors Type TS (continued)



CATALOG NUMBER	STUD THREAD SIZE	A IPS SIZE	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			B	C	L	
TS-1212-05	1 1/4-12	1/2	1.94	1.94	4.19	3/8
TS-1212-07		3/4	1.94	1.94	4.13	3/8
TS-1212-10		1	1.94	1.94	4.25	3/8
TS-1212-12		1 1/4	2.69	2.69	5.50	1/2
TS-1212-15		1 1/2	2.69	2.69	5.63	1/2
TS-1212-20		3	2.69	2.69	5.88	1/2
TS-1512-07	1 1/2-12	3/4	2.94	2.00	4.25	3/8
TS-1512-10		1	1.94	2.00	4.25	3/8
TS-1512-12		1 1/4	2.63	2.63	5.50	1/2
TS-1512-15		1 1/2	2.63	2.69	5.63	1/2
TS-1512-20		2	2.69	2.69	5.63	1/2
TS-1512-25		2 1/2	2.75	2.69	5.69	1/2
TS-2012-07	2-12	3/4	1.94	1.94	4.31	3/8
TS-2012-10		1	2.94	1.94	4.31	3/8
TS-2012-12		1 1/4	2.63	2.75	5.63	1/2
TS-2012-15		1 1/2	2.69	2.69	5.69	1/2
TS-2012-20		2	2.69	2.75	5.69	1/2
TS-2012-25		2 1/2	2.75	2.75	5.75	1/2
TS-2212-10	2 1/4-12	1	2.94	2.19	4.50	3/8
TS-2212-12		1 1/4	2.63	2.75	5.88	1/2
TS-2212-15		1 1/2	2.69	2.75	6.00	1/2
TS-2212-20		2	2.69	2.75	6.00	1/2
TS-2212-25		2 1/2	2.75	2.75	5.75	1/2
TS-2512-10		2 1/2-12	1	1.94	2.19	4.69
TS-2512-12	1 1/4		2.63	2.75	5.81	1/2
TS-2512-15	1 1/2		2.63	2.75	5.81	1/2
TS-2512-20	2		2.69	2.75	5.88	1/2
TS-2512-25	2 1/2		2.75	2.75	5.81	1/2
TS-2512-30	3		3.38	3.25	7.00	5/8
TS-3010-15	3-10	1 1/2	2.75	2.75	6.06	1/2
TS-3010-20		2	2.75	2.75	6.06	1/2
TS-3010-25		2 1/2	2.75	2.75	6.06	1/2
TS-3010-30		3	3.38	3.25	7.00	5/8
TS-3010-35		3 1/2	3.25	3.25	7.00	5/8
TS-3010-40		4	3.25	3.25	7.00	5/8

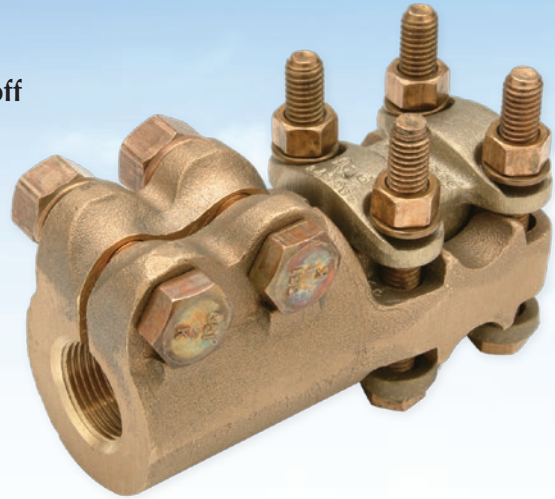
SUBSTATION CONNECTORS

Bronze Stud Connectors

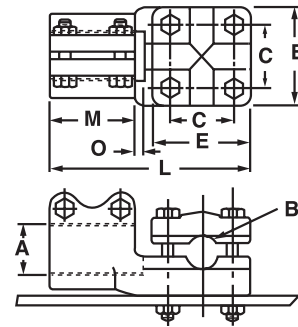
Type CSR

For stud to cable, tube, or flat bar vertical or horizontal take off

- Manufactured from high strength copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Cap on tap end can be rotated to utilize two grooves which accommodate a wide range of cable and IPS conductor sizes
- The reversible cap can be rotated 90° to provide a straight or horizontal take off
- Offset connector design allows for mounting to flat bar
- Captive bolt design permits single wrench installation
- For tin plating, suffix catalog number with "-TN"



CATALOG NUMBER	A STUD THREAD SIZE	B COPPER CONDUCTOR RANGE		
		IPS RANGE	SMALL GROOVE RANGE	LARGE GROOVE RANGE
CSR-0513-025	1/2-13	-	6 Sol. - 1 Str.	1 Str. - 250 kcmil
CSR-0716-025	3/4-16	-	6 Sol. - 1 Str.	1 Str. - 250 kcmil
CSR-0716-050		3/8 - 1/2	6 Sol. - 4/0 Str.	4/0 Str. - 500 kcmil
CSR-0716-100		3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1014-025	1-14	-	6 Sol. - 1 Str.	1 Str. - 250 kcmil
CSR-1014-050		3/8 - 1/2	6 Sol. - 4/0 Str.	4/0 Str. - 500 kcmil
CSR-1014-100		3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1112-025	1 1/8-12	-	6 Sol. - 1 Str.	1 Str. - 250 kcmil
CSR-1112-050		3/8 - 1/2	6 Sol. - 4/0 Str.	4/0 Str. - 500 kcmil
CSR-1112-100		3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1212-100	1 1/4-12	3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1512-025	1 1/2-12	-	6 Sol. - 1 Str.	1 Str. - 250 kcmil
CSR-1512-050		3/8 - 1/2	6 Sol. - 4/0 Str.	4/0 Str. - 500 kcmil
CSR-1512-100		3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1512-200		3/8 - 1 1/4	4/0 Str. - 900 kcmil	900 - 2000 kcmil
CSR-2012-100	2-12	3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-2012-200		3/8 - 1 1/4	2 Sol. - 350 kcmil	900 - 2000 kcmil
CSR-2512-200	2 1/2-12	3/8 - 1 1/4	4/0 Str. - 900 kcmil	900 - 2000 kcmil
CSR-3012-200	3-12	3/8 - 1 1/4	4/0 Str. - 900 kcmil	900 - 2000 kcmil



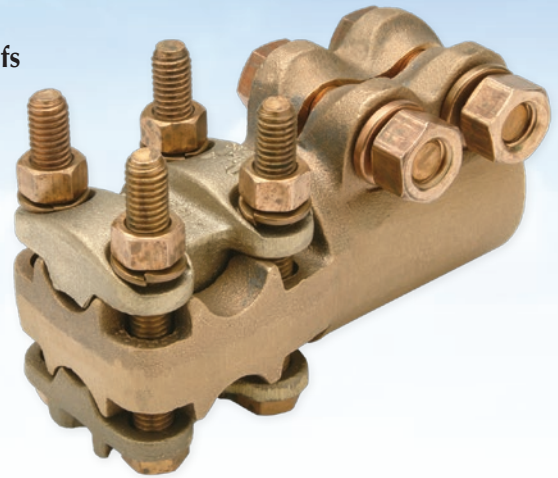
CATALOG NUMBER	APPROXIMATE DIMENSIONS (IN.)					BOLT SIZE	
	C	E	L	M	O	STUD	TAP
CSR-0513-025	1.13	1.88	3.88	1.75	.13	3/8	3/8
CSR-0716-025	1.13	1.88	3.88	1.75	.13	3/8	3/8
CSR-0716-050	1.38	2.13	4.13	1.75	.13	3/8	3/8
CSR-0716-100	1.88	2.88	5.38	2.25	.13	1/2	1/2
CSR-1014-025	1.13	1.88	3.88	1.75	.13	3/8	3/8
CSR-1014-050	1.38	2.13	4.13	1.75	.13	3/8	3/8
CSR-1014-100	1.88	2.88	5.38	2.25	.13	1/2	1/2
CSR-1112-025	1.13	1.88	4.44	2.25	.19	3/8	3/8
CSR-1112-050	1.38	2.13	4.69	2.25	.19	3/8	3/8
CSR-1112-100	1.88	2.88	5.44	2.25	.19	1/2	1/2
CSR-1212-100	1.88	2.88	5.44	2.25	.19	1/2	1/2
CSR-1512-025	1.13	1.88	4.44	2.25	.19	1/2	3/8
CSR-1512-050	1.38	2.13	4.69	2.25	.19	1/2	3/8
CSR-1512-100	1.88	2.88	5.44	2.25	.19	1/2	1/2
CSR-1512-200	2.38	2.38	5.94	2.25	.19	1/2	1/2
CSR-2012-100	1.88	2.88	5.94	2.75	.19	1/2	1/2
CSR-2012-200	2.38	3.38	6.44	2.75	.19	1/2	1/2
CSR-2512-200	2.38	3.38	6.44	2.75	.19	1/2	1/2
CSR-3012-200	2.38	3.38	6.44	2.75	.19	1/2	1/2

Bronze Stud Connectors

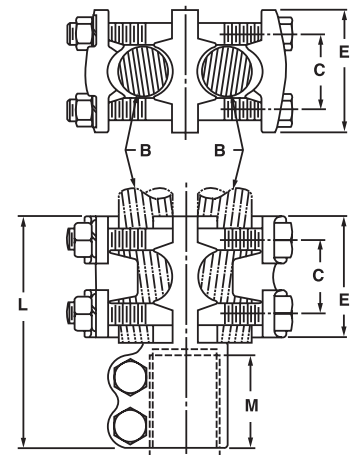
Type CSR-2

For stud to two cables or two tubes vertical or horizontal take offs

- Manufactured from high strength copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Caps on tap end can be rotated to utilize two grooves which accommodate a wide range of cable and IPS conductor sizes
- The reversible caps can be rotated 90° to provide straight or horizontal take offs
- Captive bolt design permits single wrench installation
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	A STUD THREAD SIZE	B COPPER CONDUCTOR RANGE		
		IPS RANGE	SMALL GROOVE RANGE	LARGE GROOVE RANGE
CSR-0716-050-2	3/4-16	3/8 - 1/2	6 Sol. - 4/0 Str.	4/0 Str. - 500 kcmil
CSR-0716-100-2		3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1014-050-2	1-14	3/8 - 1/2	6 Sol. - 4/0 Str.	4/0 Str. - 500 kcmil
CSR-1014-100-2		3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1112-050-2	1 1/8-12	3/8 - 1/2	6 Sol. - 4/0 Str.	4/0 Str. - 500 kcmil
CSR-1112-100-2		3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1212-100-2	1 1/4-12	3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1512-050-2	1 1/2-12	3/8 - 1/2	6 Sol. - 4/0 Str.	4/0 Str. - 500 kcmil
CSR-1512-100-2		3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-1512-200-2		3/8 - 1 1/4	4/0 Str. - 900 kcmil	900 - 2000 kcmil
CSR-2012-100-2	2-12	3/8 - 3/4	2 Sol. - 350 kcmil	350 - 1000 kcmil
CSR-2012-200-2		3/8 - 1 1/4	4/0 Str. - 900 kcmil	900 - 2000 kcmil
CSR-2512-200-2	2 1/2-12	3/8 - 1 1/4	4/0 Str. - 900 kcmil	900 - 2000 kcmil
CSR-3012-200-2	3-12	3/8 - 1 1/4	4/0 Str. - 900 kcmil	900 - 2000 kcmil



CATALOG NUMBER	APPROXIMATE DIMENSIONS (IN.)				BOLT SIZE	
	C	E	L	M	STUD	TAP
CSR-0716-050-2	1.38	2.13	4.38	1.75	3/8	3/8
CSR-0716-100-2	1.88	2.88	5.63	2.25	1/2	1/2
CSR-1014-050-2	1.38	2.88	4.38	1.75	3/8	3/8
CSR-1014-100-2	1.88	2.88	5.63	2.25	1/2	1/2
CSR-1112-050-2	1.38	2.13	5.00	2.25	3/8	3/8
CSR-1112-100-2	1.88	2.88	5.75	2.25	1/2	1/2
CSR-1212-100-2	1.88	2.88	5.75	2.25	1/2	1/2
CSR-1512-050-2	1.38	2.13	5.00	2.25	1/2	3/8
CSR-1512-100-2	1.88	2.88	5.75	2.25	1/2	1/2
CSR-1512-200-2	2.38	3.38	6.13	2.25	1/2	1/2
CSR-2012-100-2	1.88	2.88	5.75	2.75	1/2	1/2
CSR-2012-200-2	2.38	3.38	6.38	2.75	1/2	1/2
CSR-2512-200-2	2.38	3.38	6.38	2.75	1/2	1/2
CSR-3012-200-2	2.38	3.38	6.75	2.75	1/2	1/2

SUBSTATION CONNECTORS

Bronze Tee Connectors

Types ABR and ABRE

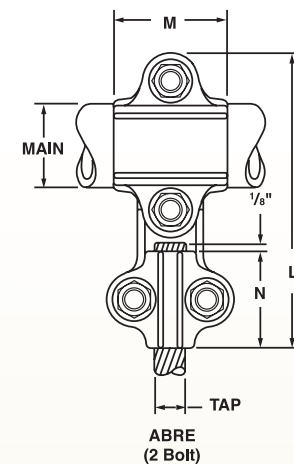
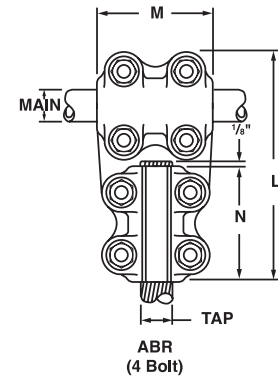
For tube range to cable range

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Cap on tap end can be rotated to utilize two grooves which accommodate a wide range of cable conductor sizes
- Captive bolt design permits single wrench installation
- For tin plating, suffix catalog number with “-TN”



Four Bolt Clamping

CATALOG NUMBER	IPS RANGE (MAIN)	COPPER CONDUCTOR RANGE (TAP)	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			L	M	N	
ABR-10-025	3/8-1	6 Sol. - 250 kcmil	5.56	2.25	2.50	1/2
ABR-10-050		1/0 Sol. - 500 kcmil	5.56	2.25	2.50	
ABR-10-100		4/0 Sol. - 1000 kcmil	6.06	2.25	3.00	
ABR-10-200		500 - 2000 kcmil	6.06	2.25	3.00	
ABR-12-025	1 1/4	6 Sol. - 250 kcmil	6.00	2.75	2.50	
ABR-12-050		1/0 Sol. - 500 kcmil	6.00	2.75	2.50	
ABR-12-100		4/0 Sol. - 1000 kcmil	6.50	2.75	3.00	
ABR-12-200		500 - 2000 kcmil	6.50	2.75	3.00	
ABR-15-025	1 1/2	6 Sol. - 250 kcmil	6.75	2.75	2.50	
ABR-15-050		1/0 Sol. - 500 kcmil	6.75	2.75	2.50	
ABR-15-100		4/0 Sol. - 1000 kcmil	7.25	2.75	3.00	
ABR-15-200		500 - 2000 kcmil	7.25	2.75	3.00	
ABR-20-025	2	6 Sol. - 250 kcmil	7.19	2.75	2.50	
ABR-20-050		1/0 Sol. - 500 kcmil	7.19	2.75	2.50	
ABR-20-100		4/0 Sol. - 1000 kcmil	7.69	2.75	3.00	
ABR-20-200		500 - 2000 kcmil	7.69	2.75	3.00	
ABR-25-025	2 1/2	6 Sol. - 250 kcmil	7.69	2.75	2.50	
ABR-25-050		1/0 Sol. - 500 kcmil	7.69	2.75	2.50	
ABR-25-100		4/0 Sol. - 1000 kcmil	8.19	2.75	3.00	
ABR-25-200		500 - 2000 kcmil	8.19	2.75	3.00	
ABR-30-025	3	6 Sol. - 250 kcmil	8.38	3.25	2.50	
ABR-30-050		1/0 Sol. - 500 kcmil	8.38	3.25	2.50	
ABR-30-100		4/0 Sol. - 1000 kcmil	8.88	3.25	3.00	
ABR-30-200		500 - 2000 kcmil	8.88	3.25	3.00	



Two Bolt Clamping

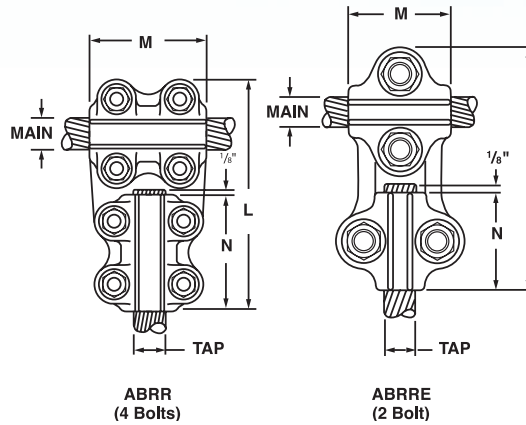
CATALOG NUMBER	IPS RANGE (MAIN)	COPPER CONDUCTOR RANGE (TAP)	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			L	M	N	
ABRE-10-025	3/8-1	6 Sol. - 250 kcmil	4.13	1.50	1.50	3/8

Bronze Tee Connectors

Types ABRR and ABRRE

For copper cable range to cable range

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Cap on tap end can be rotated to utilize two grooves which accommodate a wide range of cable conductor sizes
- Captive bolt design permits single wrench installation
- For tin plating, suffix catalog number with “-TN”



Four Bolt Clamping

CATALOG NUMBER	COPPER CONDUCTOR RANGE (MAIN)	COPPER CONDUCTOR RANGE (TAP)	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			L	M	N	
ABRR-025	6 Sol. - 250 kcmil	6 Sol. - 250 kcmil	4.69	2.50	2.50	3/8
ABRR-025H			5.06	2.50	2.50	1/2
ABRR-050025	1/0 Sol. - 500 kcmil	6 Sol. - 250 kcmil	4.88	2.50	2.50	3/8
ABRR-050025H		6 Sol. - 250 kcmil	5.25	2.50	2.50	1/2
ABRR-050		1/0 Sol. - 500 kcmil	4.88	2.50	2.50	3/8
ABRR-050H		1/0 Sol. - 500 kcmil	5.25	2.50	2.50	1/2
ABRR-100025	4/0 Sol. - 1000 kcmil	6 Sol. - 250 kcmil	5.88	3.00	2.50	1/2
ABRR-100050		1/0 Sol. - 500 kcmil	5.88	3.00	2.50	1/2
ABRR-100		4/0 Sol. - 1000 kcmil	6.38	3.00	3.00	1/2
ABRR-200025	500 - 2000 kcmil	6 Sol. - 250 kcmil	6.13	3.00	2.50	1/2
ABRR-200050		1/0 Sol. - 500 kcmil	6.13	3.00	2.50	1/2
ABRR-200100		4/0 Sol. - 1000 kcmil	6.63	3.00	3.00	1/2
ABRR-200		500 - 2000 kcmil	6.63	3.00	3.00	1/2

Two Bolt Clamping

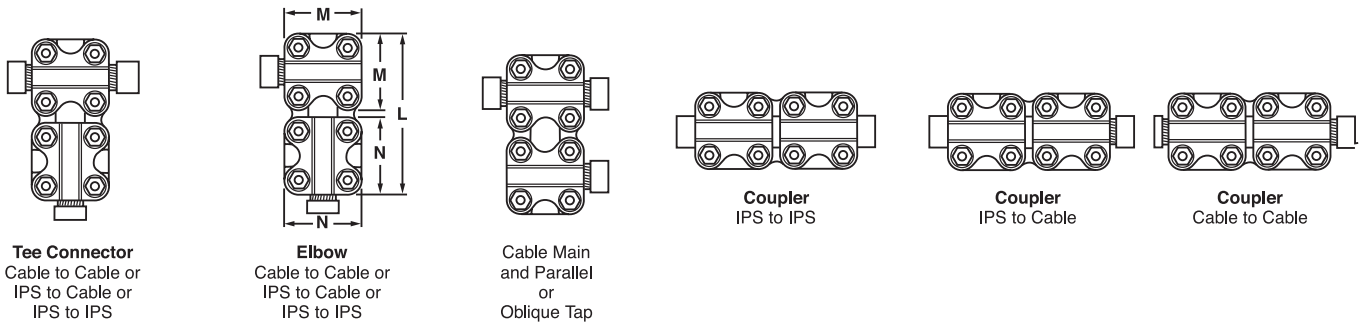
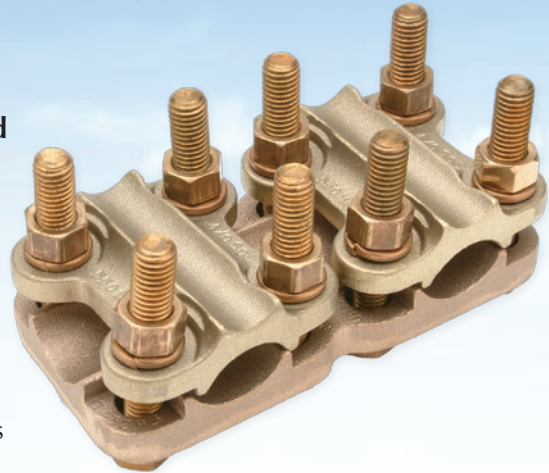
CATALOG NUMBER	COPPER CONDUCTOR RANGE (MAIN)	COPPER CONDUCTOR RANGE (TAP)	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			L	M	N	
ABRRE-050	1/0 Sol. - 500 kcmil	1/0 Sol. - 500 kcmil	4.31	1.75	1.75	3/8
ABRRE-050-025		6 Sol. - 250 kcmil	4.06		1.50	

Bronze Range Taking Connectors

Type RM

Multi-purpose connector for joining a range of copper cable and tube to make tee taps, couplers, elbows, and parallel clamps

- Manufactured from high strength cast copper alloy
- Furnished with silicon bolts, nuts, and lockwashers for corrosion resistance
- Individual square caps on both main and tap can be rotated to utilize two grooves which accommodate a wide range of cable and tube sizes
- Captive bolt design permits single wrench installation
- Connectors can be furnished tin or silver plated by suffixing catalog number with “-TN” (tin) or “-SV” (silver)



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		APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
	IPS RANGE	COPPER CONDUCTOR RANGE	IPS RANGE	COPPER CONDUCTOR RANGE	L	M	N	
RM-080	1/4 - 3/4	2 Sol. - 800 kcmil	1/4 - 3/4	2 Sol. - 800 kcmil	4.63	2.25	2.25	3/8
RM-085	1/4 - 3/4	6 Sol. - 850 kcmil	1/4 - 3/4	6 Sol. - 850 kcmil	6.13	3.00	3.00	1/2
RM-150085	1/2 - 1	4/0 Sol. - 1500 kcmil	1/4 - 3/4	6 Sol. - 850 kcmil	6.38	3.25	3.00	1/2
RM-150	1/2 - 1	4/0 Sol. - 1500 kcmil	1/2 - 1	4/0 Sol. - 1500 kcmil	6.63	3.25	3.25	1/2
RM-200085	3/4 - 1 1/2	500 - 2000 kcmil	1/4 - 3/4	6 Sol. - 850 kcmil	6.63	3.50	3.00	1/2
RM-200150	3/4 - 1 1/2	500 - 2000 kcmil	1/2 - 1	4 Sol. - 1500 kcmil	6.88	3.50	3.25	1/2
RM-200	3/4 - 1 1/2	500 - 2000 kcmil	3/4 - 1 1/2	500 - 2000 kcmil	7.19	3.50	3.50	1/2

Bronze Tee Connectors

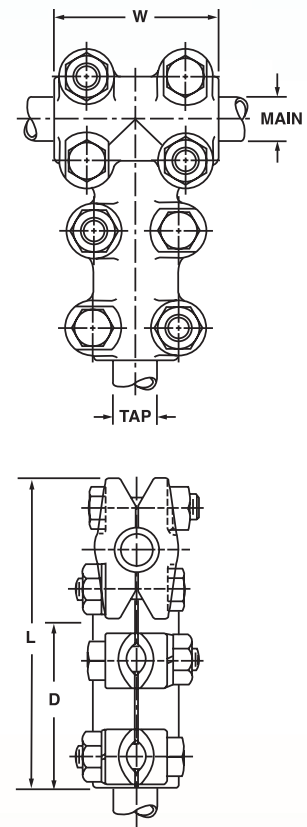
Type ABN

For copper tube to tube

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Captive bolt design permits single wrench installation
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	IPS SIZE		APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
	MAIN	TAP	W	L	D	
ABN-0707	3/4	3/4	2.50	5.75	2.50	1/2
ABN-1005	1	1/2	2.50	6.00	2.50	
ABN-1007		3/4	2.50	6.00	2.50	
ABN-1010		1	2.50	6.00	2.50	
ABN-1205	1 1/4	1/2	2.75	6.13	2.50	
ABN-1207		3/4	2.75	6.13	2.50	
ABN-1210		1	2.75	6.13	2.50	
ABN-1212	1 1/4	2.75	6.38	2.75		
ABN-1505	1 1/2	1/2	2.75	6.50	2.50	
ABN-1507		3/4	2.75	6.50	2.50	
ABN-1510		1	2.75	6.50	2.50	
ABN-1512		1 1/4	2.75	6.75	2.75	
ABN-1515		1 1/2	2.75	6.75	2.75	
ABN-2005	2	1/2	2.75	6.75	2.50	
ABN-2007		3/4	2.75	6.75	2.50	
ABN-2010		1	2.75	6.75	2.50	
ABN-2012		1 1/4	2.75	7.00	2.75	
ABN-2015		1 1/2	2.75	7.00	2.75	
ABN-2020	2	2.75	7.00	2.75		
ABN-2507	2 1/2	3/4	2.75	7.50	2.50	
ABN-2510		1	2.75	7.50	2.50	
ABN-2512		1 1/4	2.75	7.50	2.75	
ABN-2515		1 1/2	2.75	7.50	2.75	
ABN-2520		2	2.75	7.50	2.75	
ABN-2525	2 1/2	3.25	8.25	3.25		



SUBSTATION CONNECTORS

Bronze Tee Connectors

TYPE ABN (CONTINUED)

CATALOG NUMBER	IPS SIZE		APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
	MAIN	TAP	W	L	D	
ABN-3007	3	3/4	2.50	8.25	2.50	1/2
ABN-3010		1	2.50	8.25	2.50	1/2
ABN-3012		1 1/4	2.75	8.50	2.75	1/2
ABN-3015		1 1/2	2.75	8.50	2.75	1/2
ABN-3020		2	2.75	8.50	2.75	1/2
ABN-3025		2 1/2	3.25	9.00	3.25	1/2
ABN-3030		3	3.50	9.75	3.50	5/8
ABN-3507	3 1/2	3/4	2.50	8.75	2.50	1/2
ABN-3510		1	2.50	8.75	2.50	1/2
ABN-3512		1 1/4	2.75	9.00	2.75	1/2
ABN-3515		1 1/2	2.75	9.00	2.75	1/2
ABN-3520		2	2.75	9.00	2.75	1/2
ABN-3525		2 1/2	3.25	9.75	3.25	1/2
ABN-3530		3	3.50	10.00	3.50	5/8
ABN-3535	3 1/2	3.50	10.00	3.50	5/8	
ABN-4007	4	3/4	2.50	9.50	2.50	1/2
ABN-4010		1	2.50	9.50	2.50	1/2
ABN-4012		1 1/4	2.75	9.75	2.75	1/2
ABN-4015		1 1/2	2.75	9.75	2.75	1/2
ABN-4020		2	2.75	9.75	2.75	1/2
ABN-4025		2 1/2	3.25	10.25	3.25	1/2
ABN-4030		3	3.50	11.00	3.50	5/8
ABN-4040	4	4.00	11.50	4.00	5/8	

Bronze Bus Support Clamps

Type BS

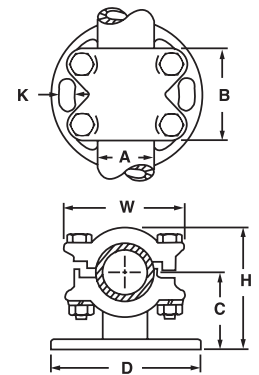
For copper tube to bolt circle

- Manufactured from high strength cast copper alloy
- Designed to mount tube on a post or pedestal type insulator
- Furnished with silicon bronze clamping hardware for corrosion resistance
- Stainless steel bolts and lockwashers furnished for cap mounting (standard)
- Rotate cap 180° for grip or slide fit
- Oval slots in base permit easy alignment
- For stainless steel base mounting hardware consisting of bolts, nuts, and lockwashers, suffix catalog number with “-BM”
- For tin plating, suffix catalog number with “-TN”



3" Bolt Circle Base

CATALOG NUMBER	IPS SIZE	APPROXIMATE DIMENSIONS (IN.)						K (SLOT WIDTH)	BOLT SIZE
		A	B	C	D	H	W		
BS-05-3	1/2	.84	2.00	2.00	4.25	2.75	2.38	.56	3/8
BS-07-3	3/4	1.05	2.00	2.00	4.25	2.75	2.63		3/8
BS-10-3	1	1.32	2.00	2.13	4.25	3.00	2.88		3/8
BS-12-3	1 1/4	1.66	2.63	2.38	4.25	3.38	3.63		1/2
BS-15-3	1 1/2	1.90	2.75	2.44	4.25	3.63	3.88		1/2
BS-20-3	2	2.38	2.75	2.56	4.25	4.06	4.50		1/2
BS-25-3	2 1/2	2.88	2.75	3.06	4.25	4.75	5.00		1/2
BS-30-3	3	3.50	3.25	3.00	4.25	5.69	6.13		5/8
BS-35-3	3 1/2	4.00	3.25	4.00	4.25	6.31	6.63		5/8
BS-40-3	4	4.50	3.25	4.25	4.25	6.81	7.13		5/8



5" Bolt Circle Base

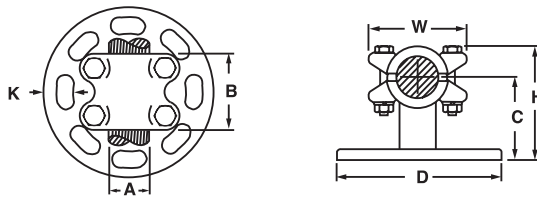
CATALOG NUMBER	IPS SIZE	APPROXIMATE DIMENSIONS (IN.)						K (SLOT WIDTH)	BOLT SIZE
		A	B	C	D	H	W		
BS-05-5	1/2	.84	2.00	2.06	6.38	2.81	2.38	.69	3/8
BS-07-5	3/4	1.05	2.00	2.06	6.38	2.81	2.63		3/8
BS-10-5	1	1.32	2.00	2.19	6.38	3.06	2.88		3/8
BS-12-5	1 1/4	1.66	2.63	2.38	6.38	3.44	3.63		1/2
BS-15-5	1 1/2	1.90	2.75	2.44	6.38	3.69	3.88		1/2
BS-20-5	2	2.38	2.75	2.63	6.38	4.13	4.50		1/2
BS-25-5	2 1/2	2.88	2.75	3.06	6.38	4.81	5.00		1/2
BS-30-5	3	3.50	3.25	3.63	6.38	5.75	6.13		5/8
BS-35-5	3 1/2	4.00	3.25	4.00	6.38	6.38	6.63		5/8
BS-40-5	4	4.50	3.25	4.25	6.38	6.88	7.13		5/8

Bronze Bus Support Clamps

Type BSR

For copper tube or cable to bolt circle

- Manufactured from high strength cast copper alloy
- Designed for mounting a wide range of cable or tube on post or pedestal type insulator
- Furnished with silicon bronze clamping hardware for corrosion resistance
- Stainless steel bolts and lockwashers furnished for cap mounting (standard)
- Oval slots in base permit easy alignment
- For stainless steel base mounting hardware consisting of bolts, nuts, and lockwashers, suffix catalog number with “-BM”
- For tin plating, suffix catalog number with “-TN”



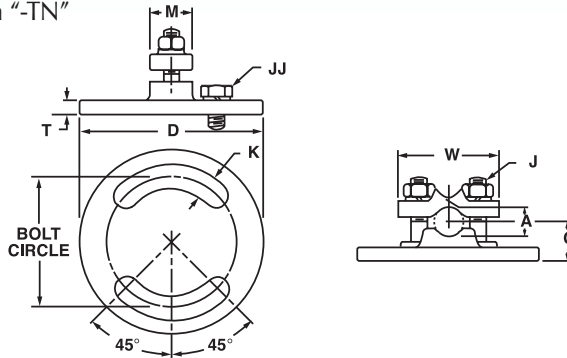
CATALOG NUMBER	IPS RANGE	COPPER CONDUCTOR RANGE	BOLT CIRCLE DIA.	APPROXIMATE DIMENSIONS (IN.)						BOLT SIZE
				B	C	D	H	W	K (SLOT WIDTH)	
BSR-1	1/8 - 1/2	6 Str. - 500 kcmil	3.00	2.75	2.00	4.25	3.19	2.19	.56	3/8
BSR-2			5.00	2.75	2.06	6.38	3.25	2.19	.69	
BSR-5	1/4 - 1	4/0 Str. - 1250 kcmil	3.00	3.00	2.13	4.25	3.63	2.69	.56	
BSR-6			5.00	3.00	2.19	6.38	3.69	2.69	.69	
BSR-9	3/4 - 1 1/2	850 - 2500 kcmil	3.00	3.88	2.44	4.25	4.19	3.69	.56	1/2
BSR-10			5.00	3.88	2.50	6.38	4.25	3.69	.69	
BSR-11	1 1/4 - 2	-	3.00	2.88	2.56	4.25	4.31	4.19	.56	
BSR-12			5.00	2.88	2.63	6.38	4.38	4.19	.69	

Bronze Bus Support Clamps

Type BSR2B

For copper tube or cable to bolt circle

- Manufactured from high strength cast copper alloy
- Designed for mounting a wide range of cable or tube on post or pedestal type insulator
- Furnished with silicon bronze clamping hardware for corrosion resistance
- Stainless steel bolts and lockwashers furnished for cap mounting (standard)
- Elongated slots in base permit easy alignment
- For stainless steel base mounting hardware consisting of bolts, nuts, and lockwashers, suffix catalog number with “-BM”
- For tin plating, suffix catalog number with “-TN”



3" Bolt Circle

CATALOG NUMBER	IPS SIZE	COPPER CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						BOLT SIZE	
			D	C	W	M	T	K (SLOT WIDTH)	J	JJ
BSR2B-025-3	-	6 Sol. - 250 kcmil	4.25	.81	2.25	1.00	.31	.56	3/8	1/2
BSR2B-050-3	-	1/0 Sol. - 500 kcmil	4.25	1.38	2.25	1.38	.31		3/8	
BSR2B-200-3	1/2 - 1 1/2	500 - 2000 kcmil	4.25	2.09	3.88	1.25	.38		1/2	
BSR2B-20-3	2	-	4.25	2.19	4.50	1.50	.38		1/2	
BSR2B-25-3	2 1/2	-	4.25	2.19	4.88	1.63	.38		1/2	
BSR2B-30-3	3	-	4.25	3.63	6.13	1.75	.31		5/8	
BSR2B-35-3	3 1/2	-	4.25	4.00	6.63	1.75	.31		5/8	

5" Bolt Circle

CATALOG NUMBER	IPS SIZE	COPPER CONDUCTOR RANGE	APPROXIMATE DIMENSIONS (IN.)						BOLT SIZE	
			D	C	W	M	T	K (SLOT WIDTH)	J	JJ
*BSR2B-025-5	-	6 Sol. - 250 kcmil	6.25	.88	2.25	1.00	.25	.69	3/8	5/8
*BSR2B-050-5	-	1/0 Sol. - 500 kcmil	6.25	1.44	2.25	1.38	.25		3/8	
*BSR2B-200-5	1/2 - 1 1/2	500 - 2000 kcmil	6.38	2.09	3.88	1.25	.38		1/2	
BSR2B-20-5	2	-	6.38	2.19	4.50	1.50	.38		1/2	
BSR2B-25-5	2 1/2	-	6.38	2.19	4.88	1.63	.38		1/2	
BSR2B-30-5	3	-	6.38	3.63	6.13	1.75	.38		5/8	
BSR2B-35-5	3 1/2	-	6.38	4.00	6.63	1.75	.38		5/8	

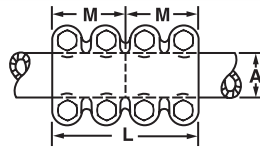
* Connector base with six slots

Bronze Couplers

Type BA

For joining equal sizes of copper tubing end to end

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Captive bolt design permits single wrench installation
- For tin plating, suffix catalog number with “-TN”



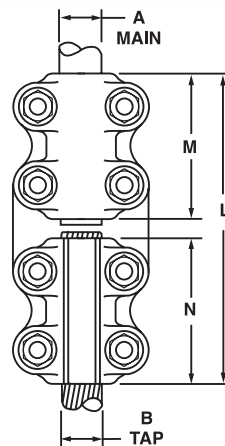
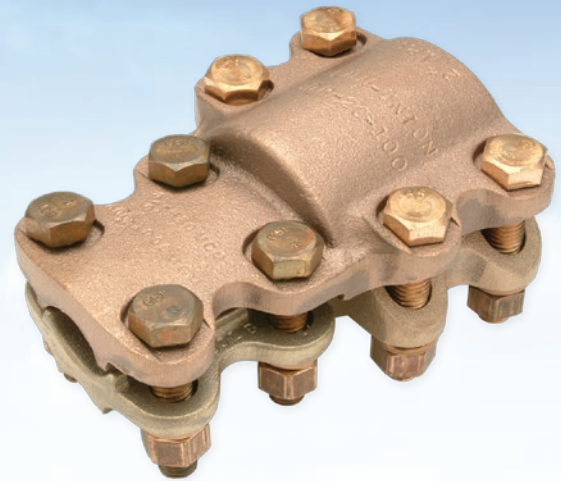
CATALOG NUMBER	IPS SIZE	NUMBER OF BOLTS	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			A	L	M	
BA-0303	3/8	4	.68	3.00	1.50	3/8
BA-0505	1/2	6	.84	4.00	2.00	3/8
BA-0707	3/4	6	1.05	4.00	2.00	3/8
BA-1010	1	8	1.32	6.00	3.00	3/8
BA-1212	1 1/4	8	1.66	6.00	3.00	1/2
BA-1515	1 1/2	8	1.90	6.00	3.00	1/2
BA-2020	2	8	2.38	6.00	3.00	1/2
BA-2525	2 1/2	8	2.88	7.00	3.50	1/2
BA-3030	3	8	3.50	8.00	4.00	5/8
BA-3535	3 1/2	8	4.00	9.00	4.50	5/8
BA-4040	4	8	4.50	10.00	5.00	5/8
BA-5050	5	8	5.56	12.00	6.00	5/8

Bronze Couplers

Type BDR

For copper tube to copper cable

- Manufactured from high strength cast copper alloy
- Furnished with silicon bronze bolts, nuts, and lockwashers for corrosion resistance
- Cap on tap end can be reversed to accommodate a wide range of conductor sizes
- Captive bolt design permits single wrench installation
- For tin plating, suffix catalog number with “-TN”



CATALOG NUMBER	A IPS SIZE (MAIN)	B CONDUCTOR RANGE (TAP)	APPROXIMATE DIMENSIONS (IN.)			BOLT SIZE
			L	M	N	
BDR-20-025	2	6 Sol. - 250 kcmil	5.63	2.75	2.50	1/2
BDR-20-050		1/0 Sol. - 500 kcmil	5.63	2.75	2.50	
BDR-20-100		4/0 Sol. - 1000 kcmil	6.13	2.75	3.00	
BDR-20-200		500 - 2000 kcmil	6.13	2.75	3.00	
BDR-25-025	2 1/2	6 Sol. - 250 kcmil	5.63	2.75	2.50	
BDR-25-050		1/0 Sol. - 500 kcmil	5.63	2.75	2.50	
BDR-25-100		4/0 Sol. - 1000 kcmil	6.13	2.75	3.00	
BDR-25-200		500 - 2000 kcmil	6.13	2.75	3.00	
BDR-30-025	3	6 Sol. - 250 kcmil	6.13	3.25	2.50	
BDR-30-050		1/0 Sol. - 500 kcmil	6.13	3.25	2.50	
BDR-30-200		500 - 2000 kcmil	6.63	3.25	3.00	



- Construction**
- Utilities**
- Power Transmission**
- Industrial**
- Telecom**
- Renewable Energy**
- Aerospace**
- Rail Systems**
- MRO**



TECHNICAL INFORMATION



TECHNICAL INFORMATION

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 is also 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 methods which are 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 joints melting out during temporary overload conditions.

Connector Materials

Since most electrical conductors are either copper or aluminum, it also has become standard of the connector industry to make connectors of copper and aluminum. The category of copper connectors includes pure copper and alloys of bronze and brasses. The 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 bi-metallic connector, thus making the transition in the connector rather than in the junction of the connector and conductor.

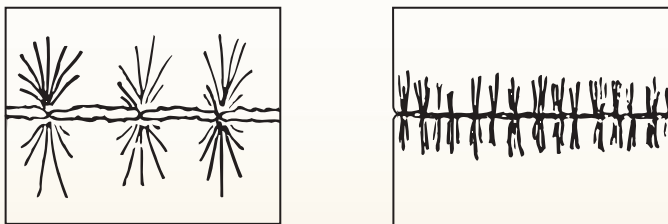


Figure 1. As force is increased, the surface roughness flattens out creating a multiplicity of parallel paths

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. The 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.

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 properly, it must develop correct thrust for the installation torque recommended, and above all, it must be reliable and not fail during service.

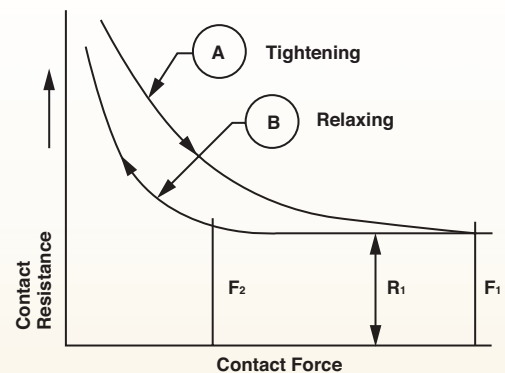


Figure 2. Contact resistance curves

Table I shows the recommended tightening torques for silicon bronze, stainless steel, galvanized steel and lubricated aluminum alloy hardware. Torque values presently recommended by NEMA-CC1 2009 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.
1/4	7	80	-	-
5/16	15	180	-	-
3/8	20	240	14	168
1/2	40	480	25	300
5/8	55	660	40	480
3/4	87	1050	54	650

For optimum efficiency, it is necessary that the correct bolt, nut and washer combination be used with the correct combination of conductor materials. Table 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.

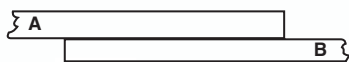


TABLE II - METHODS OF JOINING BUS BARS

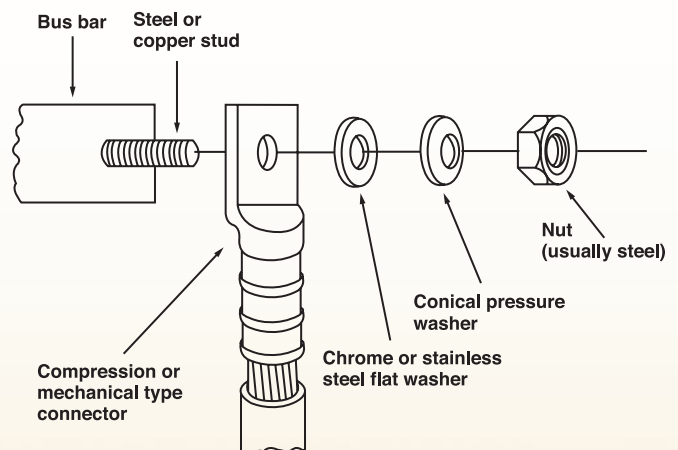
IF "A" BAR IS AND IF "B" BAR IS	COPPER COPPER	ALUMINUM COPPER	STEEL COPPER	ALUMINUM ALUMINUM	STEEL ALUMINUM
Hard Drawn Bus such as aluminum alloy 	(1) Silicon Bronze (2) Stainless Steel	(1) Silicon Bronze (2) Aluminum (3) Stainless Steel	(1) Silicon Bronze (2) Stainless Steel	(1) Aluminum (2) Stainless 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 oxide inhibitor recommended between aluminum to aluminum and aluminum to copper connections, unless other protective measures are taken

Bar Connections

The tongue of a compression or a mechanical connector is a bus bar that connects to another bus bar. Bare aluminum bus bars should be cleaned thoroughly, wire brushed to remove surface oxide, and a coating of oxide inhibitor applied immediately prior to installation. Plated parts should be cleaned with a solvent if they are dirty, but never abrade or otherwise disturb the plating. The illustration to the right shows a typical bar connection and the type of hardware used.



Note: Contact surfaces must be clean. Use a joint compound with bare aluminum. A conical pressure washer is usually recommended if one, or both, bus materials are soft drawn aluminum.

MECHANICAL CONNECTOR RECOMMENDED TIGHTENING TORQUE

Per UL486A-486B

TEST WIRE SIZE INSTALLED IN CONNECTOR AWG OR MCM (mm)		TIGHTENING TORQUE, POUND-INCHES (N·M)			
		SLOTTED HEAD NO. 10 AND LARGER ¹		HEXAGONAL HEAD - EXTERNAL DRIVE SOCKET WRENCH	
		SLOT WIDTH - .047 INCH (1.2 mm) OR LESS AND SLOT LENGTH - 1/4 INCH (6.4 mm) OR LESS	SLOT WIDTH - OVER .047 INCH (1.2 mm) OR SLOT LENGTH - OVER 1/4 INCH (6.4 mm)	SPLIT-BOLT CONNECTORS	OTHER CONNECTORS
18-10	(.082-5.3)	20 (2.3)	35 (4.0)	80 (9.0)	75 (8.5)
8	(8.4)	25 (2.8)	40 (4.5)	80 (9.0)	75 (8.5)
6-4	(13.3-21.2)	35 (4.0)	45 (5.1)	165 (18.6)	110 (12.4)
3	(26.7)	35 (4.0)	50 (5.6)	275 (31.1)	150 (16.9)
2	(33.6)	40 (4.5)	50 (5.6)	275 (31.1)	150 (16.9)
1	(42.4)	-	50 (5.6)	275 (31.1)	150 (16.9)
1/0-2/0	(53.5-67.4)	-	50 (5.6)	385 (43.5)	180 (20.3)
3/0-4/0	(85.0-107.2)	-	50 (5.6)	500 (56.5)	250 (28.2)
250-350	(127-177)	-	50 (5.6)	650 (73.4)	325 (36.7)
400	(203)	-	50 (5.6)	825 (93.2)	325 (36.7)
500	(253)	-	50 (5.6)	825 (93.2)	375 (42.4)
600-750	(304-380)	-	50 (5.6)	1000 (113.0)	375 (42.4)
800-1000	(406-508)	-	50 (5.6)	1100 (124.3)	500 (56.5)
1250-2000	(635-1010)	-	-	1100 (124.3)	600 (67.8)

¹For values of slot width or length not corresponding to those specified, select the largest torque value associated with the conductor size.
Slot width is the nominal design value. Slot length shall be measured at the bottom of the slot.

TIGHTENING TORQUE FOR SLOTTED HEAD SCREWS SMALLER THAN NO. 10 INTENDED FOR USE WITH 8 AWG (8.4 mm²) OR SMALLER CONDUCTORS

SLOT LENGTH OF SCREW INCH (mm) ¹	TIGHTENING TORQUE, POUND-INCHES (N·M)	
	SLOT WIDTH OF SCREW INCH (mm) ²	
	SMALLER THAN .047 (1.2) ²	.047 (1.2) AND LARGER ²
Less than 5/32 (4)	7 (.79)	9 (1.0)
5/32 (4)	7 (.79)	12 (1.4)
3/16 (4.8)	7 (.79)	12 (1.4)
7/32 (5.6)	7 (.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)

TIGHTENING TORQUE FOR SCREWS WITH RECESSED ALLEN OR SQUARE DRIVES


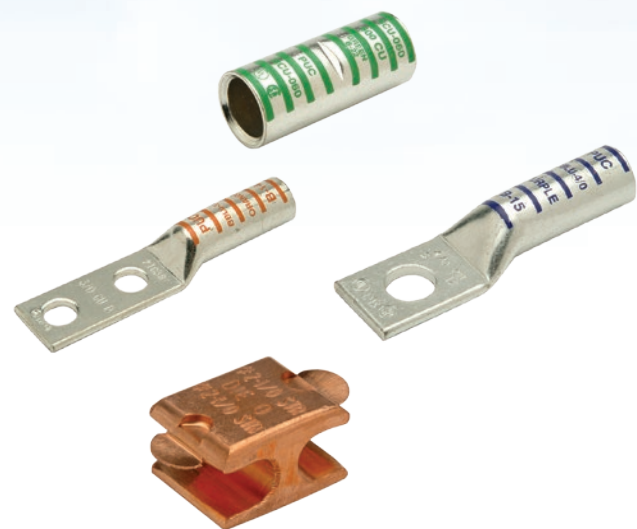
SOCKET SIZE ACROSS FLATS INCH (mm)	TIGHTENING TORQUE, POUND-INCHES (N·M)
1/8 (3.2)	45 (5.1)
5/32 (4.0)	100 (11.3)
3/16 (4.8)	120 (13.6)
7/32 (5.6)	150 (16.9)
1/4 (6.4)	200 (22.6)
5/16 (7.9)	275 (31.1)
3/8 (9.5)	375 (42.4)
1/2 (12.7)	500 (56.5)
9/16 (14.3)	600 (67.8)

¹For slot lengths of intermediate values, select torques pertaining to next shorter slot lengths. Slot length shall be measured at the bottom of the slot

²Slot width is the nominal design value

CONNECTOR COMPARISON CHART MECHANICAL VS. COMPRESSION

The variety of connectors available can be broken down into two general categories — mechanical and compression. The following chart has been prepared in an effort to clarify the difference between these two categories.

	
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 and aluminum	Separate designs required for aluminum, copper 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 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 when 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

Compression Connector Crimping Methods

To retain UL and 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 that are UL listed or CSA 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 that can be used in the compression connection. Copper cable can be installed in a copper compression connector that has a "CU" rating or in an aluminum compression connector that has an "AL9CU" rating. Aluminum cable can only be installed in an aluminum compression connector that has a rating of "AL" or "AL7CU." Aluminum cable can never be installed in a copper compression connector.

Once the cable preparation has been completed and the proper type and size 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 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 TDM-500 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 medium sized cables apply the crimping force via a compound leverage system. Mechanical crimping tools make either a surrounding type of crimp (Fig. 1A) or a nest and indenter crimp shape (Fig. 1B).

The hydraulic crimping tools used for the medium and large cable sizes can have quite a variety of crimping die systems and hydraulic pressure sources.

Die-type Crimpers

Die-type tools require a separate set of inserts to 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 the specific connector size the correct amount when the full force of the hydraulic 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 hexagonal shaped profile.

Many of the copper and 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.

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 diameters to match the conductor size. For example, a popular grouping of electric utility connectors has a constant outside diameter of .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.

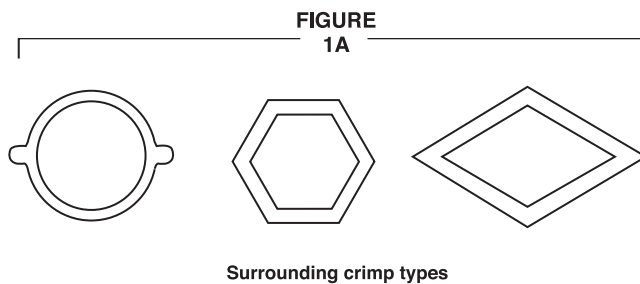
Compression Connector Crimping Methods

Dieless Crimpers

The other class of hydraulic crimping tools is that of the dieless design. 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 that are the nest and indenter style. 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 that surrounds the connector barrel and has an appearance more like that of a die-type tool. All of the dieless tool types are capable of crimping cylindrical connector barrels as recommended by their respective manufacturers.

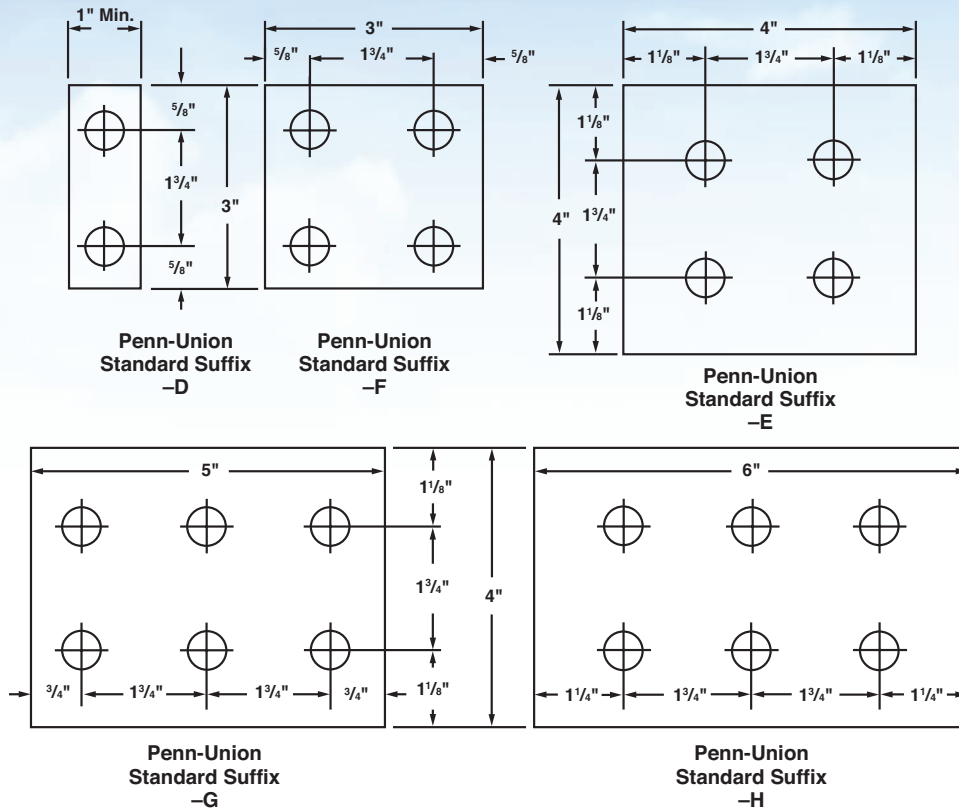
Some dieless tools of each type are also often recommended by their manufacturers to be able to provide range-taking capabilities (a single connector could be used to terminate more than one conductor size). It is always important to follow the connector manufacturer's installation instructions with regard to connector selection, conductor sizes and types, and the approved installation tooling in order to obtain a UL listed and/or CSA certified connection.

The necessity to maintain UL listing and/or CSA certification for a connector installation can limit the available combinations of connectors and crimp tools that 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.



NEMA STANDARD PAD CONFIGURATIONS

These figures show the arrangements of 9/16" bolt holes which are standardized for electrical power connectors under NEMA Standard CC1.



STUD SIZE CHART (INCHES)

Standard Stud Size	#2	#4	#5	#6	#8	#10	1/4"	5/16"	3/8"	7/16"
Stud Size Decimal Equivalent	.086"	.112"	.127"	.138"	.164"	.190"	.250"	.312"	.375"	.438"
Terminal Hole Diameter	.090"	.118"	.130"	.147"	.173"	.204"	.270"	.343"	.392" .406"	.456"

Standard Stud Size	1/2"	5/8"	3/4"	7/8"	1"
Stud Size Decimal Equivalent	.500"	.625"	.750"	.875"	1.00"
Terminal Hole Diameter	.531"	.656"	.810"	.906"	1.031"

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	7/6.15	.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	7/6.86	.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	7/8.64	.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	—	—	—	—	—	—	—
13090	—	9	—	1/.1144	1/2.91	.1144	2.91	750 MCM	—	—	—	61/.1109	61/2.82	.998	25.4
13090	—	9	—	7/.0432	7/1.10	.130	3.30	750 MCM	—	—	—	91/.0908	91/2.31	.999	25.4
16510	—	8	—	1/.1285	1/3.26	.128	3.26	—	789.4 MCM	—	400	61/.114	61/2.90	1.026	26.1
16510	—	8	—	7/.0486	7/1.23	.146	3.70	800 MCM	—	—	—	61/.1145	61/2.91	1.031	26.2
—	19740	—	10	1/.141	1/3.58	.141	3.58	800 MCM	—	—	—	91/.0938	91/2.38	1.032	26.2
—	19740	—	10	7/.054	7/1.37	.162	4.12	1000 MCM	986.8 MCM	—	500	61/.1280	61/3.25	1.152	29.3
20820	—	7	—	1/.1443	1/3.67	.144	3.67	1000 MCM	—	—	—	91/.1048	91/2.66	1.153	29.3
20820	—	7	—	7/.0545	7/1.38	.164	4.15	—	1233.7 MCM	—	625	91/.117	91/2.97	1.287	32.7
26240	—	6	—	1/.162	1/4.11	.162	4.11	1250 MCM	—	—	—	91/.1172	91/2.98	1.289	32.7
26240	—	6	—	7/.0612	7/1.55	.184	4.66	1250 MCM	—	—	—	127/.0992	127/2.52	1.290	32.8
—	31580	—	16	7/.068	7/1.73	.204	5.18	1500 MCM	—	—	—	91/.1284	91/3.26	1.412	35.9
33090	—	5	—	7/.0688	7/1.75	.206	5.24	1500 MCM	—	—	—	127/.1087	127/2.76	1.413	35.9
41740	—	4	—	7/.0772	7/1.96	.232	5.88	—	1578.8 MCM	—	800	91/.132	91/3.35	1.452	36.9
—	49340	—	25	7/.085	7/2.16	.255	6.48	—	1973.5 MCM	—	1000	91/.147	91/3.73	1.617	41.1
—	49340	—	25	19/.052	19/1.32	.260	6.60	2000 MCM	—	—	—	127/.1255	127/3.19	1.632	41.5
52620	—	3	—	7/.0867	7/2.20	.260	6.61	2000 MCM	—	—	—	169/.1088	169/2.76	1.632	41.5
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 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

ADDITIONAL WIRE SIZE RECOMMENDATIONS FOR COPPER COMPRESSION LUGS & SPLICES

TYPES: BCU, BCU-FL, BBCU, BBCU-FL, BLU, BLU-FL, BBLU, BBLU-FL, BBLZ

COPPER CONNECTOR CATALOG TYPE SPLICES & LUGS (1 & 2 HOLE)										
	CLASS B & C BUILDING WIRE CU CABLE SIZE & STRANDING	CLASS I WELD CABLE (#24 AWG CU STRANDS) SIZE & STRANDING	CLASS K WELD CABLE (#30 AWG CU STRANDS) SIZE & STRANDING	DIESEL LOCOMOTIVE CABLE (#24 AWG CU STRANDS) SIZE & STRANDING	CLASS H CABLE (NO. & DIA. OF WIRE) SIZE & STRANDING	CLASS G CABLE (NO. & DIA. OF WIRE) SIZE & STRANDING	CLASS M FLEXIBLE CABLE (#34 AWG CU STRANDS) SIZE & STRANDING	METRIC CABLE WIRE SIZE RANGE COPPER CABLE ONLY METRIC SIZE & DIA.	NAVY CABLE	AIR CRAFT
BCU-BBCU-BLU-BBLU-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-025	250 MCM 37 OR 61	NONE	NONE	NONE	NONE	NONE	3/0 AWG 4256/34	120MM ² 14.4MM	NONE	NONE
BCU-BBCU-BLU-BBLU-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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-BBLZ-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

FLEXIBLE COPPER STRANDED CABLE

CONDUCTOR SIZE AWG or kcmil	STRANDING AND DIAMETER	NOMINAL DIAMETER	CLASS
8	41/.0201	.156	I
	49/.0184	.166	G
	133/.0111	.167	H
	168/.010	.157	K
	420/.0063	.162	M
7	49/.0206	.185	G
	52/.0201	.185	I
	133/.0125	.188	H
	210/.010	.179	K
	532/.0063	.196	M
6	49/.0231	.208	G
	63/.0201	.207	I
	133/.0140	.210	H
	266/.010	.210	K
	665/.0063	.215	M
5	49/.0260	.234	G
	84/.0201	.235	I
	133/.0158	.237	H
	336/.010	.235	K
	836/.0063	.240	M
4	49/.0292	.263	G
	105/.0201	.263	I
	133/.0177	.266	H
	420/.010	.272	K
	1064/.0063	.269	M
3	49/.0328	.295	G
	133/.0199	.299	H
	133/.0201	.291	I
	532/.010	.304	K
	1323/.0063	.305	M
2	49/.0368	.331	G
	133/.0223	.335	H
	161/.0201	.319	I
	665/.010	.338	K
	1666/.0063	.337	M
1	133/.0251	.377	G
	210/.0201	.367	I
	259/.018	.378	H
	836/.010	.397	K
	2107/.0063	.376	M
1/0	133/.0282	.423	G
	259/.0202	.424	H
	266/.0201	.441	I
	1064/.010	.451	K
	2646/.0063	.423	M
2/0	133/.0316	.474	G
	259/.0227	.477	H
	342/.0201	.500	I
	1323/.010	.470	K
	3325/.0063	.508	M
3/0	133/.0355	.533	G
	259/.0255	.536	H
	418/.0201	.549	I
	1666/.010	.533	K
	4256/.0063	.576	M
4/0	133/.0399	.599	G
	259/.0286	.601	H
	532/.0201	.613	I
	2107/.010	.627	K
	5320/.0063	.645	M

CONDUCTOR SIZE AWG or kcmil	STRANDING AND DIAMETER	NOMINAL DIAMETER	CLASS
250	259/.0311	.650	G
	427/.0242	.653	H
	637/.0201	.682	I
	2499/.010	.682	K
	6384/.0063	.713	M
300	259/.0340	.714	G
	427/.0265	.716	H
	735/.0201	.737	I
	2989/.010	.768	K
	7581/.0063	.768	M
350	259/.0368	.773	G
	427/.0286	.772	H
	882/.0201	.800	I
	3458/.010	.809	K
	8806/.0063	.825	M
400	259/.0393	.825	G
	427/.0306	.826	H
	980/.0201	.831	I
	3990/.010	.878	K
	10101/.0063	.901	M
450	259/.0417	.876	G
	427/.0325	.878	H
	1127/.0201	.894	I
	4522/.010	.933	K
	11396/.0063	.940	M
500	259/.0439	.922	G
	427/.0342	.923	H
	1225/.0201	.941	I
	5054/.010	.988	K
	12691/.0063	.997	M
600	427/.0375	1.013	G
	703/.0292	1.022	H
	1470/.0201	1.027	I
	5985/.010	1.125	K
	14945/.0063	1.084	M
700	427/.0405	1.094	G
	703/.0316	1.106	H
	1729/.0201	1.194	I
	6916/.010	1.207	K
	17507/.0063	1.183	M
800	427/.0433	1.169	G
	703/.0337	1.180	H
	1995/.0201	1.290	I
	7980/.010	1.305	K
	20069/.0063	1.256	M
900	427/.0459	1.239	G
	703/.0358	1.253	H
	2261/.0201	1.372	I
	9065/.010	1.323	K
	22631/.0063	1.331	M
1000	427/.0484	1.307	G
	703/.0377	1.320	H
	2527/.0201	1.427	I
	10101/.010	1.419	K
	25193/.0063	1.404	M

COPPER COMPACT STRANDED CONDUCTOR SIZES

CONDUCTOR SIZE AWG OR KCMIL	NO. OF STRANDS	CONDUCTOR DIAMETER (IN.)	CLASS
#8	7	.134	Compact
#6	7	.169	
#4	7	.213	
#2	7	.268	
#1	19	.299	
1/0	19	.336	
2/0	19	.376	
3/0	19	.423	
4/0	19	.475	
250	37	.520	
300	37	.570	
350	37	.616	
400	37	.659	
450	37	.700	
500	37	.736	
550	61	.775	
600	61	.813	
650	61	.845	
700	61	.877	
750	61	.908	
800	61	.938	
900	61	.999	
1000	61	1.060	

ALUMINUM COMPACT STRANDED CONDUCTOR SIZES

CONDUCTOR SIZE AWG OR KCMIL	NO. OF STRANDS	CONDUCTOR DIAMETER (IN.)	CLASS ASTM B400
#8	7	.134	A, B
#6	7	.169	A, B
#4	7	.213	A, B
#3	7	.238	A, B
#2	7	.268	AA, A, B
#1	7	.299	AA, A
#1	19	.299	B
1/0	7	.336	AA, A
1/0	19	.336	B
2/0	7	.376	AA, A
2/0	19	.376	B
3/0	7	.423	AA, A
3/0	19	.423	B
4/0	7	.475	AA, A
4/0	19	.475	B
250	7	.520	AA
250	19	.520	A
250	37	.520	B
266	7	.337	AA
266	19	.337	A
300	7	.570	AA
300	19	.570	A
300	37	.570	B
336	7	.603	AA
336	19	.603	A
350	19	.616	A
350	37	.616	B
397	19	.659	AA, A
400	37	.659	B
450	37	.700	B
477	19	.722	AA
500	19	.736	AA
500	37	.736	B
550	61	.775	B
556	19	.780	AA
600	61	.813	B
650	61	.845	B
700	61	.877	B
750	61	.908	B
800	61	.938	B
900	61	.999	B
1000	61	1.060	B

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° TEMP. RISE		
					SQUARE INCHES	SQUARE CM		NEMA CC1-2009 RATINGS		
								INDOORS AMPS.	OUTDOORS AMPS.	
Standard Copper Pipe Sizes Schedule 40	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 Heavy Copper Pipe Sizes Schedule 80	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	.840	.622	.109	.294	315	400	1/2	.840	.546	.147	.376	360	455
3/4	1.050	.824	.113	.391	400	495	3/4	1.050	.742	.154	.510	455	565
1	1.315	1.049	.133	.581	535	650	1	1.315	.957	.179	.751	605	740
1 1/4	1.660	1.380	.140	.786	680	810	1 1/4	1.660	1.278	.191	1.037	780	930
1 1/2	1.900	1.610	.145	.940	790	930	1 1/2	1.900	1.500	.200	1.256	910	1070
2	2.375	2.067	.154	1.264	1000	1155	2	2.375	1.939	.218	1.737	1175	1355
2 1/2	2.875	2.469	.203	2.004	1365	1550	2 1/2	2.875	2.323	.276	2.650	1570	1780
3	3.500	3.068	.216	2.621	1670	1895	3	3.500	2.900	.300	3.547	1935	2195
3 1/2	4.000	3.548	.226	3.151	1945	2170	3 1/2	4.000	3.364	.318	4.326	2265	2530
4	4.500	4.026	.237	3.733	2230	2460	4	4.500	3.826	.337	5.183	2605	2880
5	5.563	5.047	.258	5.057	2845	3080	5	5.536	4.813	.375	7.188	3355	3635
6	6.625	6.065	.280	6.564	3500	3735	6	6.625	5.761	.432	9.884	4205	4490

*Indoor ratings are calculated for a 30°C rise above an ambient temperature of 40°C in still but unconfined air

+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 .35 (NEMA CC1-2009)

ANSI-H35.2-1990 (For Dimensional Data)

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)
.1	.0039		5.159	.2031	13/64	10.2	.4016		15.3	.6024		20.3	.7992	
.2	.0079		5.2	.2047		10.3	.4055		15.4	.6063		20.4	.8031	
.3	.0118		5.3	.2087		10.319	.4063	13/32	15.478	.6094	39/64	20.5	.8071	
.397	.0156	1/64	5.4	.2126		10.4	.4094		15.5	.6102		20.6	.8110	
.4	.0157		5.5	.2165		10.5	.4134		15.6	.6142		20.638	.8125	13/16
.5	.0197		5.556	.2188	7/32	10.6	.4173		15.7	.6181		20.7	.8150	
.6	.0236		5.6	.2205		10.7	.4213		15.8	.6220		20.8	.8189	
.7	.0276		5.7	.2244		10.716	.4219	27/64	15.875	.6250	5/8	20.9	.8228	
.794	.0313	1/32	5.8	.2283		10.8	.4252		15.9	.6260		21.0	.8268	
.8	.0315		5.9	.2323		10.9	.4291		16.0	.6299		21.034	.8281	53/64
.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	7/8
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	
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	.5157		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

CUSTOM COMPRESSION CONNECTOR SELECTION FORM 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, or Insulated: _____

PRODUCT PROFILE:

Crimp Barrel (Standard, Long - with or without Inspection Window): _____

Pad Mounting (No. of 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 and Material (Bronze, Aluminum, Steel, Stainless Steel): _____

Quantity Required (Initial Order, Annual, Release, etc.): _____

CUSTOMER PROFILE:

Company Name: _____

Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Phone: _____ Fax: _____

Buyer's Name/Title: _____

Email: _____

Delivery Date Required: _____



Fax or Email to:
Attn: Customer Service
Fax: 814.734.4946
info@penn-union.com

CUSTOM FLEXIBLE CONNECTOR SELECTION FORM Information Required at Factory

FLEXIBLE BRAID:

Type of Braid (*Flat, Rope*): _____ Amp Rating: _____

Braid Stranding and Gauge: _____ Plating Required (*Tin, Silver, None*): _____

Total Circular Mils.: _____ Number of Holes Per End: _____

Connector Width: _____ Hole Pattern: _____

Connector Thickness: _____ Hole Diameters/Slotted Hole Dimensions: _____

Connector Shape: _____ Hole Spacing: _____
(*Flat, U shape, Angle, Twist, etc.*)

Overall Connector Length: _____ Insulation Required: _____

Ferrule Length (*Each end*): _____ Special Design Considerations: _____

Quantity: _____

LAMINATED SHUNTS (SOLDER/PRESS WELD):

Lamination (*Number of laminates*): _____ Amp Rating: _____

Copper Strip Thickness: _____ Plating Required (*Tin, Silver, None*): _____

Brazing Material if needed: _____ Number of Holes Per End: _____

Connector Width: _____ Hole Pattern: _____

Connector Thickness: _____ Hole Diameters: _____

Connector Shape: _____ Hole Spacing: _____
(*Flat, U shape, Angle, etc.*)

Overall Connector Length: _____ Special Design Considerations: _____

Pad Length (*Each end*): _____ Quantity: _____

CUSTOMER PROFILE:

Company Name: _____

Address: _____

City: _____ State: _____ Country: _____ Zip: _____

Phone: _____ Fax: _____

Buyer's Name/Title: _____

Email: _____

Delivery Date Required: _____



Fax or Email to:
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PENN-UNION SEARCH:

When you enter a full or partial catalog number into the “Penn-Union Search” field, the Cross Reference will generate a list of Penn-Union products that correlate with what was entered into the search field. From there, you are able to click on the product title that best suits what you are looking for. This will take you to a page that identifies important specifications pertaining to that particular Penn-Union part.

COMPETITOR SEARCH:

When you enter a full or partial catalog number into the “Competitor Search” field, the Cross Reference will generate a chart that lists Penn-Union products that are deemed as equivalents and/or alternates to that competitor’s products based on what was entered into the search field. This chart will identify full Penn-Union catalog numbers, competitors’ catalog numbers, the name of the competitor, whether the Penn-Union part is an alternate or equivalent to the given competitor catalog number, and notes describing why the Penn-Union part is an alternate to the competitor part. To select the Penn-Union catalog number, you can click on the “Find” button in the last column of the chart. This will take you to a page that identifies important specifications pertaining to that particular Penn-Union part.

NOTE: This Cross Reference 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. Its sole purpose is to assist the user in selecting competitive alternatives. Before making any substitution, the user should carefully review the installation requirements and critical data such as conductor size or range, stud size, pipe size, etc.



Notes

TOTAL QUALITY COMMITMENT

We are committed to Total Quality with the realization that the process of achieving this goal is a never-ending one which requires a continuous commitment to excellence by everyone in our company. Our success will be measured by how well we meet and exceed our customers' expectations.

Penn-Union is an ISO 9001:2008 Registered Company.



CAPABILITIES

Our quality commitment begins with the materials and processes used to manufacture our products. Major capital investments are made to ensure process capabilities. We continue to invest in our foundry operation. We utilize computer controlled, automated molding equipment that allows for "quick change" of patterns which enables us to do short runs, as well as, long runs of cast copper and aluminum products, providing the same high degree of quality and process repeatability with no delays.

Mastery of cold-forming (extruding, upsetting, coining and piercing) technology allows Penn-Union to produce dimensionally consistent, high-strength products such as copper split bolts, copper press-ons and silicon bronze hardware, to name a few.

Our in-house machine & tool design expertise allow us to quickly introduce specialty production equipment, which combines a number of manufacturing operations to improve productivity and product quality. Penn-Union utilizes computer controlled machine centers.

Engineering Services

Penn-Union offers its customers a full range of engineering support:

- **Concept & Development**
- **Design Control**
- **Application Engineering & Part Design**
- **Tool Design & Build**
- **Prototype Fabrication**
- **Fully Equipped Laboratory**
- **Testing (UL & CSA Benchmarks)**
- **Regulatory Approvals:**
Multiple Listing, Repackager Listing, Private Labeling

CUSTOMER SERVICE/SUPPORT

At Penn-Union, customer service is everyone's responsibility. An integral part of our customer focus starts with our "Partnering" with the customer. By involving our employees with the customer and his/her needs at the earliest possible time, we are able to establish a lasting partnership whereby quality products are provided on a timely basis and at a competitive value.

- Bar Coding
- Connector Express
- Custom Designs
- Customer Service/Support Teams
- Electronic Data Delivery (EDD)
- Electronic Data Interchange (EDI)
- Inventory Rationalization Programs
- Private Labeling
- Stocking Programs
- Technical Field Sales Representatives Worldwide





Construction ■ Utilities ■ Power Transmission ■ Industrial
Telecom ■ Renewable Energy ■ Oil & Gas ■ Aerospace ■ Rail ■ MRO

CONNECTING YOUR TOMORROW.™



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CMM-0517
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