

# Bonding & Grounding Mechanical Connectors

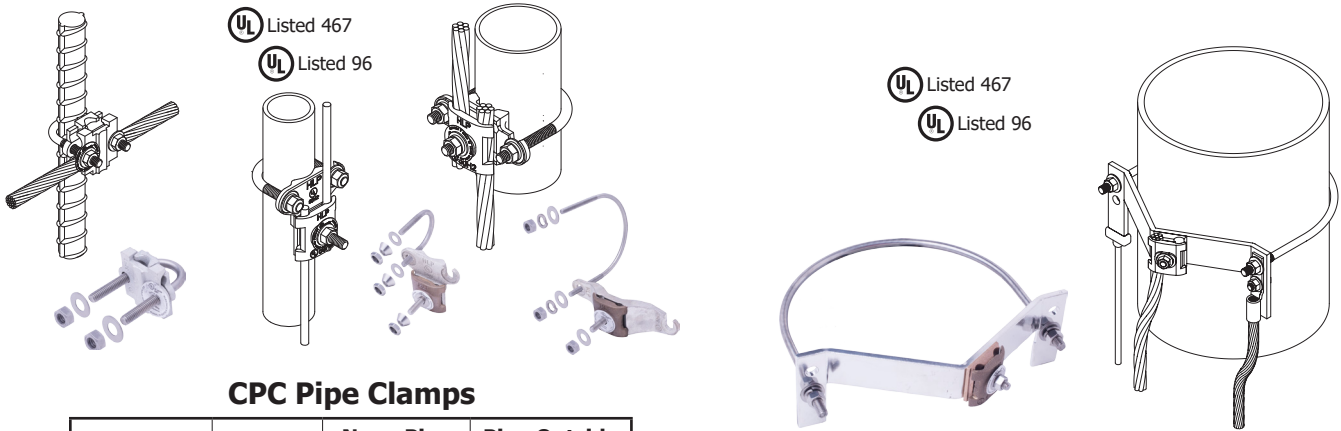
## LINE CARD



**HARGER**

Bonding & Grounding  
Mechanical Connectors

### Mechanical Bonding Clamps



#### CPC Pipe Clamps

Part No.	Material	Nom. Pipe Size Range	Pipe Outside Diameter
CPC.5/.75	ETPB*	.5" - .75"	.375" - 1"
CPC1/1.25	ETPB*	1" - 1.25"	.75" - 1.7"
CPC1.5/2	ETPB*	1.5" - 2"	1" - 2.4"
CPC2.5/3	ETPB*	2.5" - 3"	2.25" - 3.5"
CPC3.5/4	ETPB*	3.5" - 4"	3.2" - 4.5"
CPC5/6	ETPB*	5" - 6"	4.75" - 6.63"

- Conductor range #6 AWG solid through 250 MCM.
- Features "quick connect", bi-directional design.
- Pressed stud ensures a flush mounting surface.
- Dual UL Listing (UL96 and UL467)
- Suitable for direct burial in earth & concrete.
- Available in Tamper Proof.

\* Electro Tinned Plated Bronze

#### UPC Pipe Clamps

Part No.	Material	Nom. Pipe Size
UPC8C	Tinned Copper	8"
UPC10C	Tinned Copper	10"
UPC12C	Tinned Copper	12"

- Provides bi-directional grounding capabilities.
- Mechanical connector to connect ground conductors #6 thru 250 MCM.
- Suitable for direct burial in earth & concrete.
- Dual UL Listing (UL96 & UL467)
- Available in Tamper Proof.

Some of the connectors on this line card are available with Tamper Proof Hardware.



### Cable to Cable Bonding Connectors



#### 1 Bolt Parallel Connectors

Part No.	Material	Conductor Range
B1BC	Copper	#6 AWG - 250 MCM
TB1BC	ETPB*	#6 AWG - 250 MCM

#### 1 Bolt Bonding Connectors

Part No.	Material	Conductor Range
208	Copper	#6 AWG - 4/0
208T	ETPB*	#6 AWG - 4/0

#### 2 Bolt Parallel Connectors

Part No.	Material	Conductor Range
204	Copper	#6 AWG - 250 MCM
204T	ETPB*	#6 AWG - 250 MCM

#### NOTES:

- Manufactured from high conductivity copper alloy.
- Suitable for direct burial in earth & concrete.
- Available in Tamper Proof.
- \*ETPB - Electro Tin Plated Bronze.

## Cable to Flat Surface Connectors



UL Listed 467  
UL Listed 96

### Cable to Flat Metal Connectors

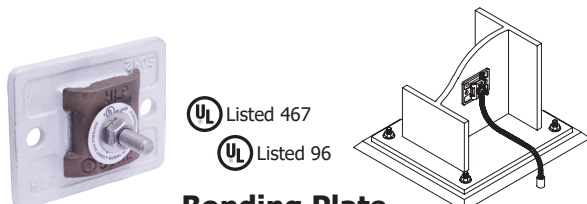
Part No.	Material	Conductor Range
213	Copper	#6 AWG - 4/0
213T	ETPB*	#6 AWG - 4/0



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### Flange Bonding Clamps

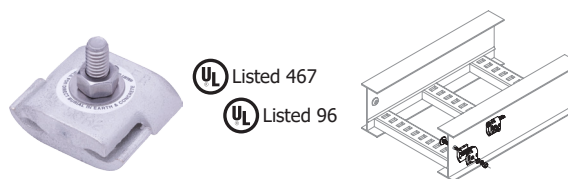
Part No.	Material	Conductor Range
223	Copper	#6 AWG - 500 MCM
223T	ETPB*	#6 AWG - 500 MCM



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### Bonding Plate

Part No.	Material	Conductor Range
217	ETPB*	#6 AWG - 4/0

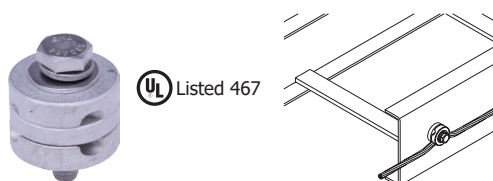


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### Tinned Bronze Cable Tray Clamp

Part No.	Material	Conductor Range
TBCTC	ETPB*	#6 Solid AWG - 250 MCM

- Used for bonding galvanized steel or aluminum cable trays to the grounding electrode system.



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### Tinned Bronze Cable Tray Clamp

Part No.	Material	Conductor Size
CRGC6	ETPB*	#6 AWG
CRGC4	ETPB*	#4 AWG

- Used when welded connections are not feasible.
- Unique design allows clamps to form connections at most any angle.
- Specific uses include fabrication under an existing computer room floor.

#### NOTES:

- Manufactured from high conductivity copper alloy.
- Suitable for direct burial in earth & concrete.
- Available in Tamper Proof.
- \*ETPB - Electro Tin Plated Bronze.

## Fence Fabric Bonding Clamps

### Fence Fabric Ground Clamps

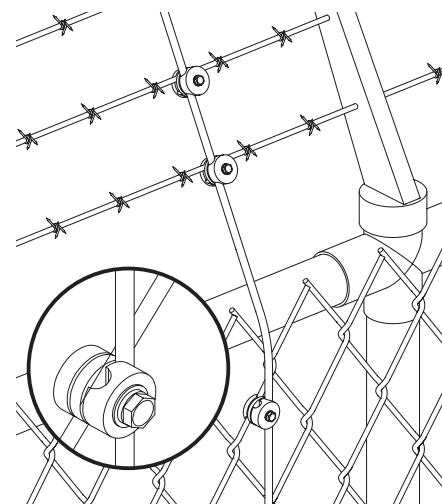
Part No.	Material	Conductor Size
FGC8	ETPB*	#8 AWG
FGC6	ETPB*	#6 AWG
FGC4	ETPB*	#4 AWG
FGC2	ETPB*	#2 AWG
FGC2/0	ETPB*	2/0 AWG
FGC2-4/0**	ETPB*	#2 AWG & 4/0 AWG

\*\*Accepts a #2 AWG and/or 4/0 AWG conductor.

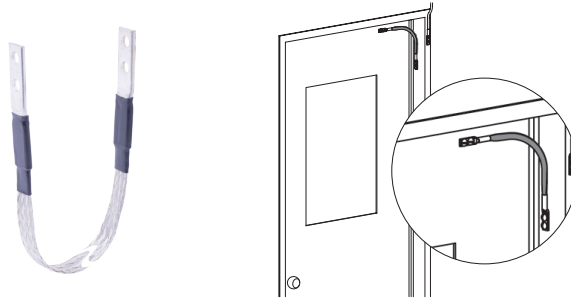
- Unique design allows clamp to form connections at most any angle.
- The conductor maintains a direct path to ground while connected to an object that is parallel, perpendicular or in any degree in between.
- Allows for use with most metallic surfaces including galvanized.
- Available in Tamper Proof.
- \* Electro Tin Plated Brass



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## Bonding Jumpers



### Door Jumpers

Part No.	Material	Width	Thickness	Length	Hole Size
GS12094122A1/4	Tinned Flat Braid Copper	1/2"	.094"	12"	1/4"
GS12094182A1/4	Tinned Flat Braid Copper	1/2"	.094"	18"	1/4"

- Braid is 6 gauge equivalent.
- Spacing between bolt holes is 5/8" on center.
- Dimensions are nominal size.



### One Hole Bonding Jumpers & Kits

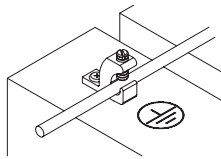
Part No.	Kit	Conductor Type	Length	No. of Holes Per Side	Hole Size
GJ67G1211/4	No	67G	12"	1	1/4"
GJ67G1211/4KIT	Yes	67G	12"	1	1/4"
GJ67G1811/4	No	67G	18"	1	1/4"
GJ67G1811/4KIT	Yes	67G	18"	1	1/4"

- #6 AWG x 7 Strand Green THW insulation.
- Kit includes all necessary hardware.

## Lay-In Lugs



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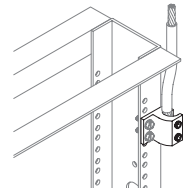
### One-Hole Tinned Copper Lay-In Lug

Part No.	TCLI414DB
Size	1-1/8" x 3/8" x 7/8"
Material	Electro Tin Plated Copper
Accepts Conductors	#4 AWG to #14 AWG
Includes	Slotted Stainless Steel Set Screw
Application	PV Array Frame or Pool Grounding
Features	Corrosion Resistant, UL467 Listed

- Tongue accepts #10 screw.



UL Listed 486



### Two-Hole Aluminum Lay-In Lug

Part No.	LI2/0142
Size	1-5/8" x 1-1/2"
Material	Electro Tin Plated Aluminum (6061-T6)
Accepts Conductors	2/0 to #14 AWG
Includes	(2) 3/8" x 1" Hex Head Socket Set Screws
Requires	3/16" Hex Key (not included)
Application	Rack or cabinet grounding
Features	Dual Rated AL/CU, UL486 Listed

- Meets ANSI/TIA-607-B two-hole mounting recommendations.
- Parallel mounting direction allows for better cable management.
- Mounting holes for 1/4" or #12 hardware.

## Round Member Grounding Clamps



### Water Pipe Ground Clamps

Part No.	Ground Rod or Pipe Size	Conductor Range
BGC4	1/2" - 1"	#10 - #2 AWG
BGC41.25-2	1-1/4" - 2"	#10 - #2 AWG
BGC42.5-4	2-1/2" - 4"	#10 - #2 AWG

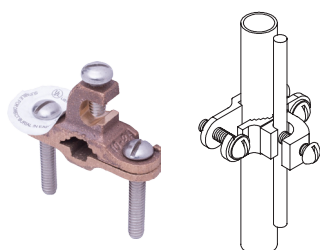


### Conduit Bonding Clamps

Part No.	Material	Conduit Range	Conductor Range
BGC4SCS	Bronze	1/2" - 3/4"	#10 - #2 AWG
TBGC4SCS	ETPB*	1/2" - 3/4"	#10 - #2 AWG
TBGC4SCSSS**	ETPB*	1/2" - 3/4"	#10 - #2 AWG

\*ETPB - Electro Tin Plated Bronze.

\*\*Includes stainless steel hardware. Rated for direct burial.



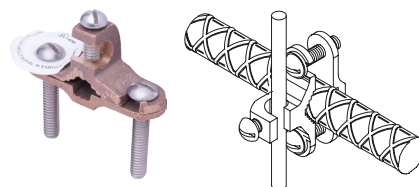
RB12A

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### Rebar & Water Pipe Clamps

Part No.	Rebar Range	Pipe Range	Conductor Range
RB12A	3/8" - 1"	1/2" x 1"	10 Sol. - 2 Str.
RB12B	3/8" - 1"	1/2" x 1"	10 Sol. - 2 Str.

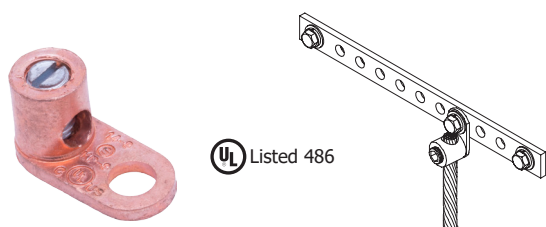
- Suitable for direct burial in earth & concrete.
- RB12A is for parallel mounted conductors.
- RB12B is for perpendicular mounted conductors.
- UL Listed



RB12B

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## Copper Bonding Terminal Lugs



### Copper Terminal Lugs

Part No.	Wire Range		Bolt Hole Size	Ampere Rating
	Maximum	Minimum		
GEL1	8 Str.	14 Sol.	#8	35
GEL2	4 Str.	14 Sol.	1/4"	70
GEL3	1/0 Str.	8 Sol.	5/16"	125
GEL4	250 MCM	6 Sol.	3/8"	250



### Copper Offset Terminal Lugs

Part No.	Wire Range		Bolt Hole Size	Ampere Rating
	Maximum	Minimum		
GEOL1	10 Str.	14 Str.	#8	25
GEOL2	6 Str.	14 Str.	#8	50
GEOL3	2 Str.	8 Str.	1/4"	70
GEOL4	1/0 Str.	8 Str.	1/4"	125
GEOL5	4/0 Str.	2 Str.	3/8"	225
GEOL500MCM	500 MCM	1/0 Str.	1/2"	400

