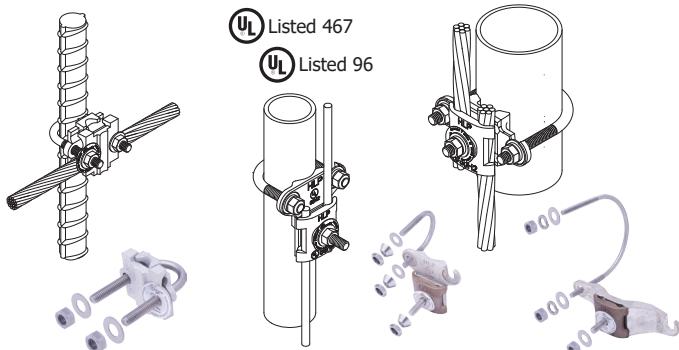


# Bonding & Grounding Mechanical Connectors

## LINE CARD

**HARGER**  
Grounding • Exothermic • Lightning Protection

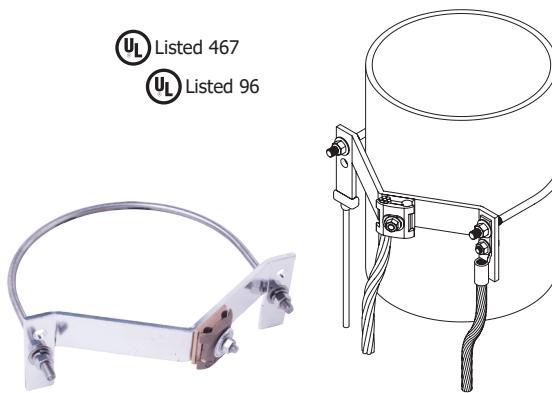
### Mechanical Bonding Clamps



#### 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

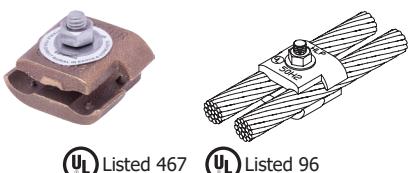
| Part No. | Material      | Nom. Pipe Size |
|----------|---------------|----------------|
| UPC8C    | Tinned Copper | 8"             |
| UPC10C   | Tinned Copper | 10"            |
| UPC12C   | Tinned Copper | 12"            |

- 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.

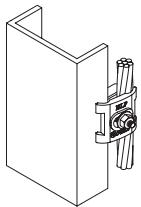
- Available in Tamper Proof.

\*ETPB - Electro Tin Plated Bronze.

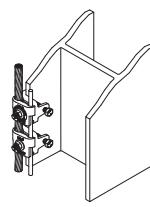
## Cable to Flat Surface Connectors



Listed 467  
 Listed 96



Listed 467  
 Listed 96



### Cable to Flat Metal Connectors

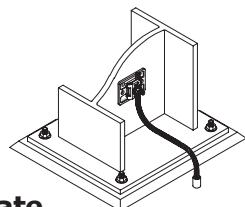
| Part No. | Material | Conductor Range |
|----------|----------|-----------------|
| 213      | Copper   | #6 AWG - 4/0    |
| 213T     | ETPB*    | #6 AWG - 4/0    |

### Flange Bonding Clamps

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



Listed 467  
 Listed 96

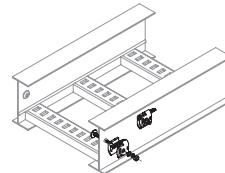


### Bonding Plate

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



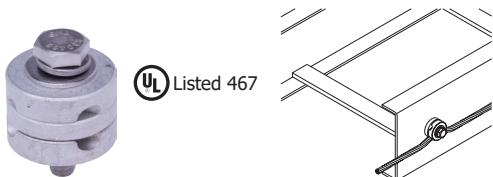
Listed 467  
 Listed 96



### 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.



### 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.

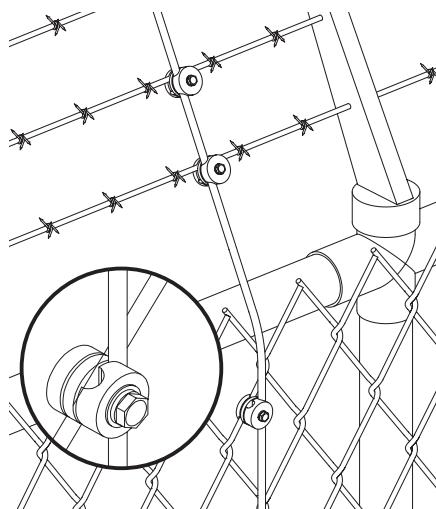
## Fence Fabric Bonding Clamps

### 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 |



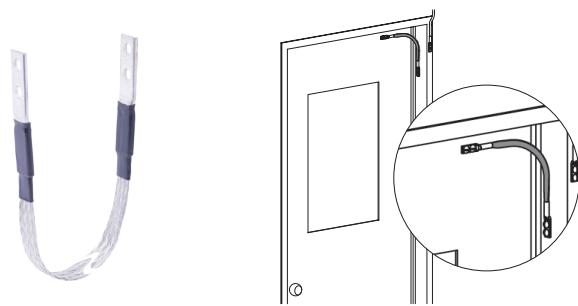
Listed 467



\*\*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

## 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

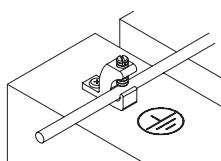
| Part No.       | Kit | Conductor Type | Length | No. of Holes Per Side | Hole Size |
|----------------|-----|----------------|--------|-----------------------|-----------|
| GJ67G1211/4    | No  | 67G            | 12"    | 1                     | 1/4"      |
| GJ67G1211/4KIT | Yes | 67G           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



UL Listed 467



UL Listed 486

### 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.

### 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    |

UL Listed 467

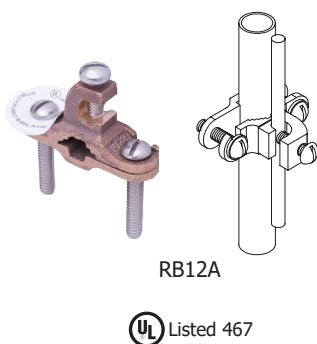


**Conduit Bonding Clamps**

| 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.

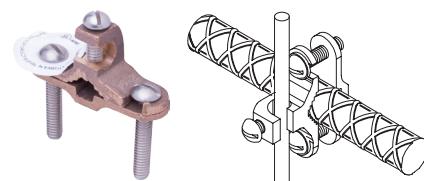


RB12A  
UL Listed 467

**Rebar & Water Pipe Clamps**

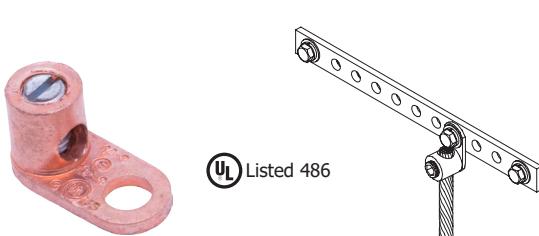
| Part No. | Rebar Range | Pipe Range | Conductor Range  |
|----------|-------------|------------|------------------|
| RB12A    | 3/8" - 1"   | 1/2" x 1"  | 10 Sol. - 2 Str. |
| RB12B    | 3/8" - 1"   | 1/2" x 1"  | 10 Sol. - 2 Str. |

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



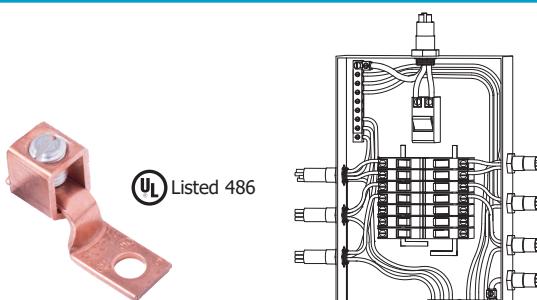
RB12B  
UL Listed 467

## Copper Bonding Terminal Lugs



**Copper Terminal Lugs**

| Part No. | Wire Range Maximum | Wire Range Minimum | Bolt Hole Size | Ampere Rating |
|----------|--------------------|--------------------|----------------|---------------|
| 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 Maximum | Wire Range Minimum | Bolt Hole Size | Ampere Rating |
|------------|--------------------|--------------------|----------------|---------------|
| 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           |

