Ground Rods and Couplers

Ground Electrodes

Ground Rod Accessories and Application

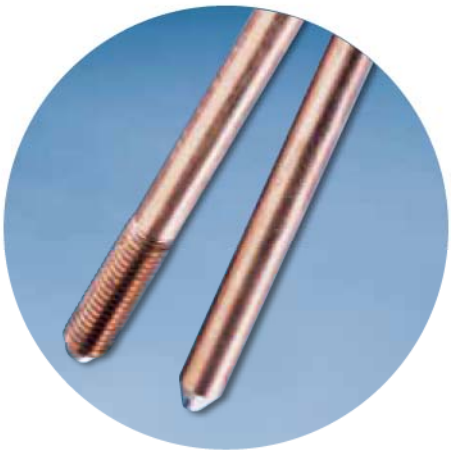
ERICO, a leading manufacturer of UL® listed copper-bonded ground rods, offers a complete range of rods, driving sleeves and studs, rod coupling methods and connections for reliable grounding in nearly any application.

Driving Sleeves

The driving sleeve fits over the pointed ground rod to protect the rod end from "mushrooming" as the ground rod is driven into earth.

Ground Rods

Ground Rod Diameter and Length



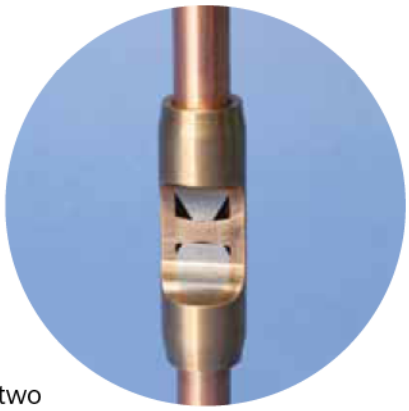
Ground rod diameter must also be considered. Although larger diameter rods are more rigid and less prone to whip or bending, they may have a greater drag than smaller diameter rods when being driven. It must also be noted that increasing the ground rod diameter has relatively small impact on grounding system resistance when compared to length. Standards nominate a minimum diameter or periphery and thickness if not cylindrical, mainly based on mechanical strength.

In general, lightning protection standards recommend copper-bonded electrodes of specified diameter. Standard UL 467 requires a minimum rod length of 8′ with a minimum diameter of 0.50″ and 10 mils of copper.

Other standards may nominate a specific resistance for the installation. If space is limited, the contractor may be required to install electrodes to a depth that achieves the required value.

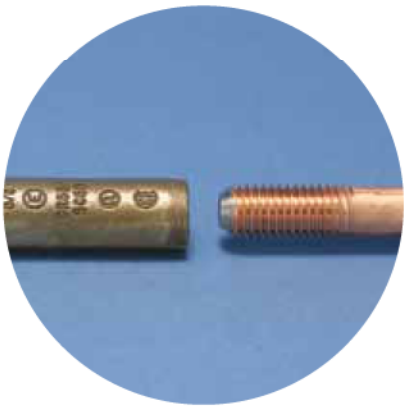
Compression Coupling

Couplings enable ground rods to be driven quickly and easily without the risk of rod separation. They are generally tapered so when the rod is driven into the coupling, the two parts compress to form a conductive connection.



Threaded Coupling

Threaded couplings allow for full contact of the rod point with the butt end of the preceding rod.



Copper-Bonded Ground Rods
Pointed Rods

- 99.9% pure electrolytic copper coating
- Molecular bond to nickel-sealed high strength steel core
- Tensile strength greater than 80,000 PSI on 1/2" & 90,000 PSI on 5/8" and 3/4"
- Minimum copper coating of 10 mils on rods listed to UL® 467
- Legibly marked with manufacturer's ID and catalog designation
- Manufactured to exceed the requirements of ANSI®/NEMA® GR1

Part No.	Nominal Diameter (in)	Length (ft)	Plating Thickness (mils)	Weight per 100 rods (lbs)	Standard Bundle
613840**	3/8	4	10	135	5
613880**	3/8	8	10	270	5
611380	1/2	8	10	553	5
615880	5/8	8	10	680	5
615883	5/8	8	13*	680	5
613480	3/4	8	10	1,000	5
613483	3/4	8	13*	1,000	5
611300	1/2	10	10	738	5
615800	5/8	10	10	844	5
615803	5/8	10	13*	844	5
613400	3/4	10	10	1,240	5
614400	1	10	10	2,204	5
615812	5/8	12	10	1,000	5
613412	3/4	12	10	1,480	5
615815	5/8	15	10	1,275	5
613415	3/4	15	10	1,850	5

* 13 mils of copper meet specifications of RUS.
** Non-UL listed rods.
† Additional lengths available.

Threadless Compression Couplers for Copper-Bonded Pointed Rods

- Made of high-strength silicon bronze
- Tapered so when rod is driven into coupling, parts compress to form a conductive connection
- UL & CSA® Listed

Part No.	Nominal Rod Diameter (in)	Unit Weight (lbs)	Unit Weight (kg)	Standard Package
CC12F	1/2 (full)	0.240	0.108	25
CC58	5/8	0.300	0.134	25
CC34	3/4	0.450	0.202	25

Steel Driving Sleeves for Pointed Rods*

- Slides on top of ground rod to prevent mushrooming while driving into ground

Part No.	Ground Rod Size (Unthreaded)	Standard Package
B13714	1/2" Copper-Bonded or Steel rod	1
B13716	5/8" Copper-Bonded rod (.563" diameter)	1
B13731	5/8" Steel rod (.625" diameter)	1
B13718	3/4" Copper-Bonded rod (.682" diameter)	1
B13733	3/4" Steel rod (.750" diameter)	1
B13722	1" Copper-Bonded rod (.914" diameter)	1
B13737	1" Steel rod (1.00" diameter)	1

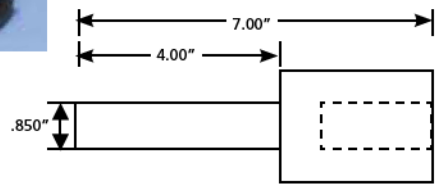
*For unthreaded ground rods only.

Economical Sleeves for 5/8" Copper-Bonded, Pointed Rods

Part No.	Ground Rod Size	Standard Package
EDS58	5/8" Copper-Bonded Rods (.563" diameter)	1

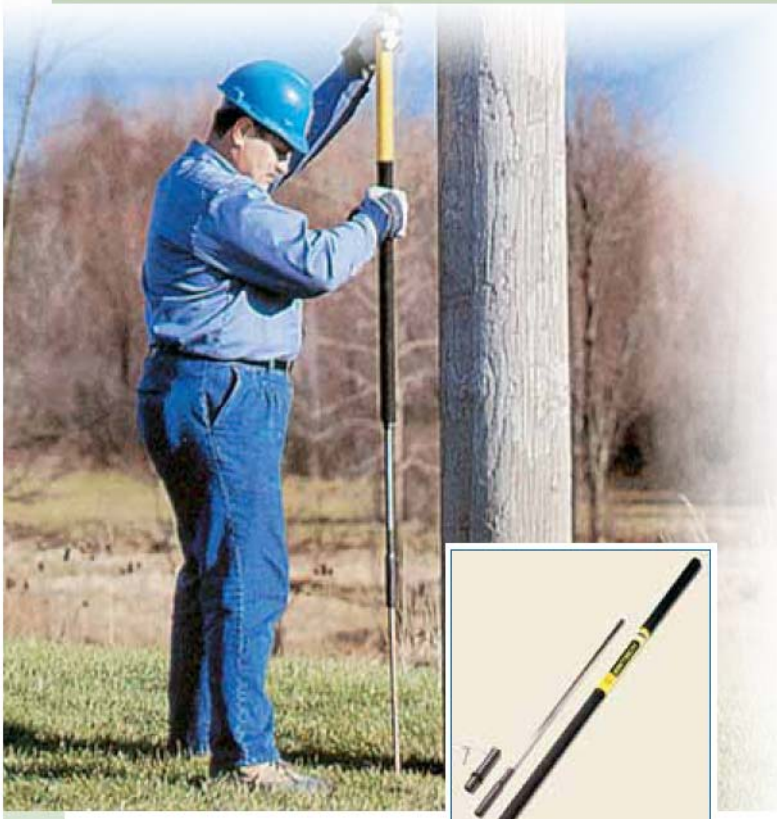
Driving Heads For Copper-Bonded Pointed Rods

- For use in power assisted ground rod drivers



Part No.	Ground Rod Size	Standard Package
DH58	5/8" Copper-Bonded Rods (.563" diameter)	1
DH34	3/4" Copper-Bonded Rods (.682" diameter)	1

Ground Rods and Couplers



Ground Rod Driver

- Usable on all types of round ground rods: copper-bonded, galvanized, stainless steel
- 5/8" (14.2 mm) and 3/4" (17.2 mm) inserts are interchangeable with standard driver body
- The driver will not deform the end of the rod, making connection of the ground conductor quick and easy

Part No.	Description	Weight (lbs)
EGRD58	5' Driver body with insert for up to 5/8"ground rods	23
EGRD58 I *	Replacement insert for 5/8" copper-bonded ground rods	6
EGRD34	5' Driver body with insert for up to 3/4" ground rods	23
EGRD34 I *	Replacement insert for 3/4" copper-bonded ground rods and 5/8" galvanized ground rods	6

*Both 5/8" and 3/4" inserts fit standard driver body.

Driving Stud For Threaded Rods

Part No.	Nominal Rod Diameter (in)	Standard Package
DS12S	1/2 (full)	25
DS58	5/8	25
DS34	3/4	25
DS1	1	1

Couplers For Threaded Rods

- High-strength couplings are threaded bronze and chamfered at both ends for easy driving
- Corrosion-resistant couplings ensure permanent, low-resistance copper-to-copper connections
- UL® & CSA® Listed

Part No.	Nominal Rod Diameter (in)	Standard Package
CR12S	1/2 (full)	25
CR58	5/8	25
CR34	3/4	25
CR100	1	1

Copper-Bonded Ground Rods

Sectional, Threaded Rods

- Cold-rolled threads with continuous, unbroken grain flows preserve copper coating and are stronger than cut threads
- Electrolytically copper-bonded steel: copper is molecularly bonded to nickel-sealed, high-strength steel cores
- Minimum copper coating of 10 mils on rods listed to UL® 467
- ERITECH® name, length, diameter and part number is roll-stamped within 12" of chamfered end
- UL logo and control number where applicable stamped on each rod for easy inspection after installation
- Manufactured to exceed the requirements of ANSI®/NEMA® GR1

Part No.	Nominal Diameter (in)	Length (ft)	Plating Thickness (mils)	Weight per 100 rods (lbs)	Standard Bundle
631300	1/2	10	10	688	5
631380	1/2	8	10	540	5
633400	3/4	10	10	1,240	5
633480	3/4	8	10	1,000	5
634400	1	10	10	2,204	5
635800	5/8	10	10	844	5
635830	5/8	3	10	262	5
635840	5/8	4	10	344	5
635850	5/8	5	10	420	5
635860	5/8	6	10	504	5
635880	5/8	8	10	680	5
635883	5/8	8	13*	680	5

* 13 mils of copper meet specifications of RUS

Stainless Steel Ground Rods

- Sectional rods utilize a cut thread for highly corrosive soil

Part No.	Nominal Diameter (in)	Length (ft)	Stainless Steel Type	Rod Type	Standard Bundle
681300	1/2 (full)	10	302 - 304	Pointed	5
683400	3/4 (full)	10	302 - 304	Pointed	5
683450	3/4 (full)	5	302 - 304	Pointed	5
683480	3/4 (full)	8	302 - 304	Pointed	5
685800	5/8 (full)	10	302 - 304	Pointed	5
685880	5/8 (full)	8	302 - 304	Pointed	5
681300S	1/2 (full)	10	302 - 304	Sectional	5
683400S	3/4 (full)	10	302 - 304	Sectional	5
683450S	3/4 (full)	5	302 - 304	Sectional	5
685800S	5/8 (full)	10	302 - 304	Sectional	5
685880S	5/8 (full)	8	302 - 304	Sectional	5

Couplers for Threaded Stainless Steel Ground Rods

Part No.	Nominal Rod Diameter (in)	Stainless Steel Type	Standard Package
CR58SS	5/8 (full)	304	1
CR34SS	3/4 (full)	304	1

Compression Couplers for Threadless Stainless Steel Ground Rods

Part No.	Nominal Rod Diameter (in)	Stainless Steel Type	Standard Package
CC58SS	5/8 (full)	304	1
CC34SS	3/4 (full)	304	1

Galvanized Steel Compression Coupler

Part No.	Rod Diameter (in)	Standard Package
GCC58F	5/8 (full)	25
GCC34	3/4 (.727-.738)	25

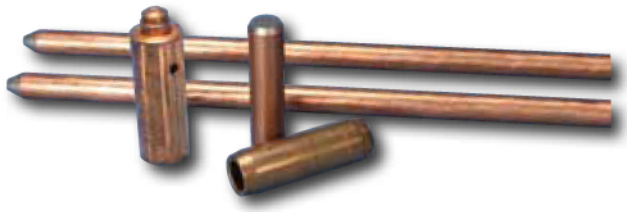
Galvanized Pointed Ground Rods

- Meets ANSI®/NEMA® GR1
- RUS Approved where indicated
- Zinc-coated exteriors are hot-dip galvanized for solid protection against corrosion, in accordance with ASTM® specification A153-78
- Surfaces are rigidly inspected to eliminate seams, slivers and other defects

Part No.	Nominal Diameter (in)	Length (ft)	Weight per 100 rods (lbs)	Standard Bundle
811350	1/2 (full)	5	344	5
811360	1/2 (full)	6	413	5
811380	1/2 (full)	8	550	5
813400*	3/4	10	1,396	5
813460*	3/4	6	858	5
813480•*	3/4	8	1,120	5
814400	1	10	2,716	5
815800*	5/8 (full)	10	1,060	5
815850	5/8 (full)	5	530	5
815860*	5/8 (full)	6	636	5
815880*•	5/8 (full)	8	844	5

* For rods with a UPC label, add "UPC" to end of part number (example: 813400UPC).
• Meets specifications of RUS.

Convenient Ground Electrode (CGE) Kits



- The UL®-Listed, NEC®-Compliant ERITECH CGE kit allows for installation from ground level and is much easier to transport than eight-foot ground rods.
- The ERITECH CGE kits are designed for #6 and #4 solid copper conductor applications.

Article No.	Part No.	KIT INCLUDES: 2 - ERITECH Ground Rods	KIT INCLUDES: ERITECH HAMMERLOCK or Clamp	KIT INCLUDES: ERITECH Drive Sleeve	Wire Sizes	Metric Wire Sizes
155991	CGE51K	615840	EHL58C1K	EDS58	#4 Sol - #6 Sol	10mm² Str - 16mm² Str
155993	CGE5CP	615840	CP58	EDS58	#8 Sol - #2 Str	10mm² Sol - 35mm² Str

Ground Clamps and Connectors

ERITECH® HAMMERLOCK

- Low resistance connection
- Irreversible connection with excellent mechanical strength
- Fast and simple installation
- cULus Listed

Part No.	Ground Rod Size (in)	Conductor Range (AWG)
For Copper-bonded Ground Rods		
EHL12FC2G	1/2 (full)	1/0 stranded – 2/0 stranded
EHL12FC1V	1/2 (full)	4 stranded – 2 stranded
EHL12FC1K	1/2 (full)	6 solid – 4 solid
EHL58C2G	5/8	1/0 stranded – 2/0 stranded
EHL58C1V	5/8	4 stranded – 2 stranded
EHL58C1K	5/8	6 solid – 4 solid
EHL34C2G	3/4	1/0 stranded – 2/0 stranded
EHL34C1V	3/4	4 stranded – 2 stranded
EHL34C1K	3/4	6 solid – 4 solid

Standard Package: 25

Part No.	Ground Rod Size (in)	Conductor Range (AWG)
For Galvalnized Ground Rods		
EHL58G2G	5/8 (full)	1/0 stranded – 2/0 stranded
EHL58G1V	5/8 (full)	4 stranded – 2 stranded
EHL58G1K	5/8 (full)	6 solid – 4 solid
EHL34G1V	3/4	4 stranded – 2 stranded
EHL34SG1V*	3/4	4 stranded – 2 stranded
EHL34G1K	3/4	6 solid – 4 solid
EHL34SG1K*	3/4	6 solid – 4 solid

Standard Package: 25

ERITECH® HAMMERLOCK for 2 Conductors

Part No.	Ground Rod Size (in)	Conductor Range (AWG)
For Copper-bonded Ground Rods		
EHL12FC1K1K*	1/2 in	6 solid – 4 solid
EHL58C1K1K*	5/8 in	6 solid – 4 solid
For Galvalnized Ground Rods		
EHL58G1K1K*	5/8 in	6 solid – 4 solid

*Not UL® Listed

Bronze Ground Rod Clamps

- High-strength silicon bronze
- For use with copper-bonded ground rods
- Suitable for direct burial
- UL Listed for direct burial in earth or concrete
- CSA Listed

Part No.	Rod Diameter (in)	Conductor Range (AWG)	Standard Package
Standard Duty			
CP38†	3/8	10 solid – 2 stranded	100
CP58	1/2 - 5/8	10 solid – 2 stranded	50
CP34	1/2 - 3/4	10 solid – 1/0 stranded	50
Heavy Duty			
HDC12	1/2	10 solid – 2 stranded	50
HDC58Δ	5/8	8 solid – 1/0 stranded	50
HDC58RΔ	5/8	8 solid – 1/0 stranded	50
HDC34	3/4	8 solid – 1/0 stranded	25
HDC34SP*	3/4	8 solid – 3/0 stranded	25
HDC1†	1	8 solid – 4/0 stranded	1

Δ HDC58 threads are 1/2"– 13 UNC. HDC58R threads are 7/16" – 14 UNC.
* Not UL Listed
† Not CSA Listed

SP58 Stainless Steel Ground Clamp

- Unique stamped body design will not crack with excessive torque values
- Provides a greater surface area contact to allow improved performance of the connector
- Compatible with copper, copper-bonded, galvanized, stainless steel, rebar and plain steel ground rods and electrodes
- cULus® Listed; RUS Approved

Part No.	Rod Diameter (in)	Conductor Range (AWG)	Minimum Torque	Rebar Size	Standard Package
SP58*	1/2, 5/8	10 solid – 2 stranded	300 in – lbs	#4	50
SP58 B916[Δ]	1/2, 5/8	10 solid – 2 stranded	300 in – lbs	#4	50

* With 9/16" bolt head
Δ UL Listed for direct burial in earth or concrete.

Split Bolts

Silicon Bronze

Tin-Plated Silicon Bronze

- High strength
- Silicon bronze for copper to copper connections.
- Tin plated, high strength copper alloy split bolt with spacer separates dissimilar conductors which allow you to connect: copper to copper; copper to aluminum; aluminum to aluminum. (Oxide inhibitor recommmended when used on aluminum conductor.)
- UL® Listed

Part No.	Conductor Range (AWG)	Standard Package
Silicon Bronze		
ESB8	16 stranded – 8 stranded	100
ESB6	10 solid – 6 stranded	100
ESB4	8 solid – 4 solid	100
ESB2	6 solid – 2 stranded	50
ESB1/0*	4 solid – 1/0 stranded	50
ESB2/0*	2 solid – 2/0 stranded	25
ESB4/0*	1/0 solid – 250 MCM	25
Tin-Plated Silicon Bronze		
ESBP8*	14 stranded – 8 stranded	100
ESBP6*	10 stranded – 6 stranded	100
ESBP4*	8 solid – 3 stranded	100
ESBP2*	8 solid – 2 stranded	100
ESBP1/0*	6 solid – 1/0 stranded	50
ESBP2/0*	8 solid – 2/0 stranded	25
ESBP4/0*	4 stranded – 250 MCM	25
ESBP350*	3/0 stranded – 350 MCM	25

* Not UL Listed

Tinned Bronze Ground Clamps

- Made of high copper-content alloy
- Theft-deterrent appearance
- Stainless steel nuts, bolts and washer included
- For use on 5/8" - 3/4" rods

Part No.	Conductor Range (AWG)	Standard Package
GC064	4 Solid - 2/0 Stranded	50
GC065	2/0 Solid - 250 MCM Stranded	50
GC065TH	2/0 Solid - 250 MCM Stranded	5

Direct Burial Ground Clamps

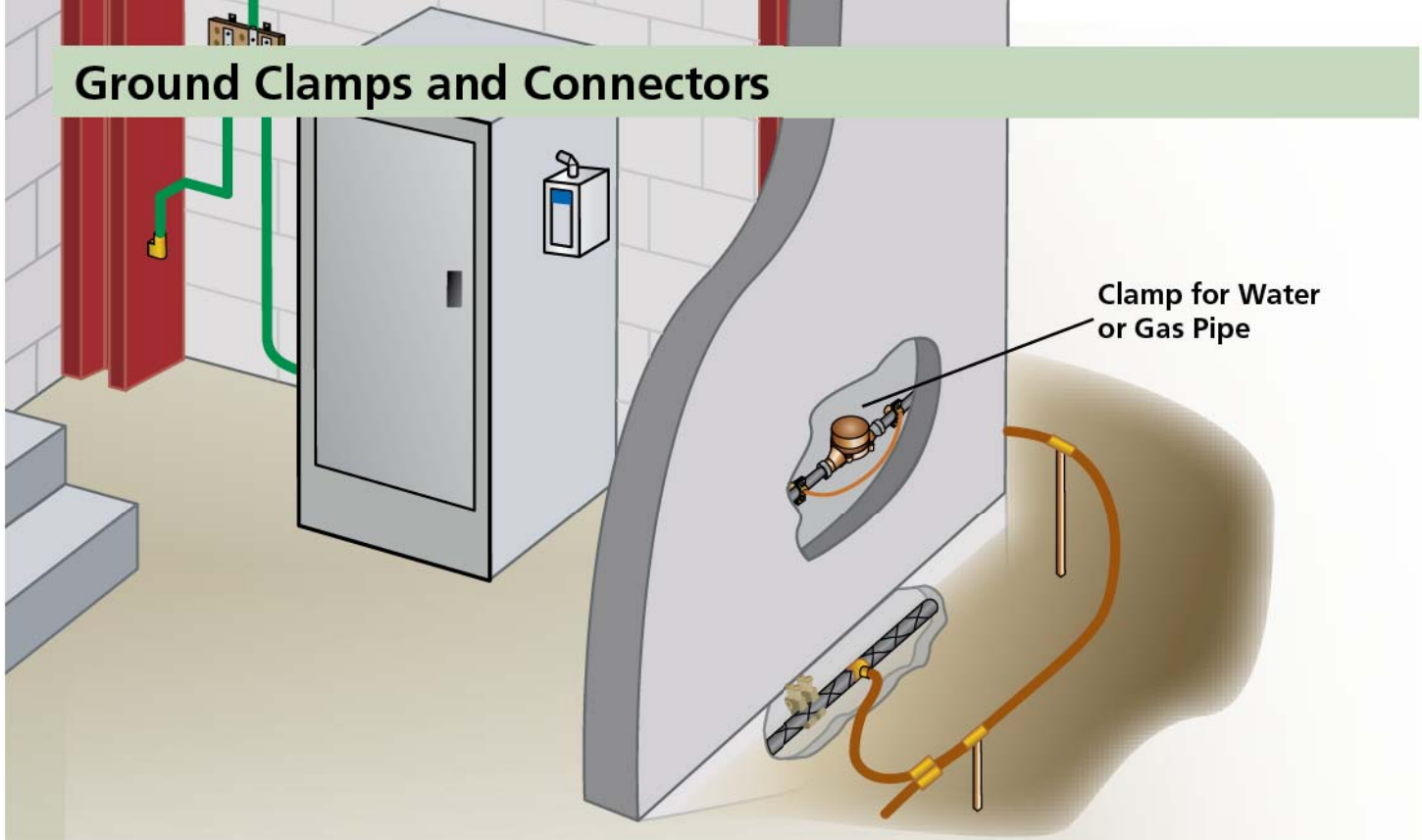
EK16:
Parallel connection

EK17:
Perpendicular connection

- Universal use for rebar, rods or pipes
- Lay-in feature cuts installation time
- Bronze alloy construction with bronze screws
- Approved for direct burial in earth and concrete
- cULus Listed

Part No.	Conductor Range (AWG)	Conductor Range (metric)	Rebar Size (imperial)	Rebar Size (metric)	Standard Package
EK16	10 solid - 2 solid	5.5 mm² – 25 mm²	#4 – #8	10 – 25 mm	50
EK17	10 solid - 2 solid	5.5 mm² – 25 mm²	#4 – #8	10 – 25 mm	50

Ground Clamps and Connectors



Bronze Clamps for Water or Gas Pipe
(including brass hex fittings)

- High-strength silicone bronze
- Used for connecting copper conductors to metallic water pipe, ground rods, or flexible gas pipe (CSST) with brass hex fittings
- Conform to the requirements of the 2009 edition of NFPA® 54, NFGC® (National Fuel Gas Code) and NEC® (National Electric Code) for bonding corrugated stainless steel tubing (CSST) gas piping systems to the grounding conductor of the building's electrical system
- SH version for outdoor applications
- cULus Listed

Part No.	Water Pipe Size (in)	Conductor Range (AWG)	Hex Nut Size (in)	Standard Package
CWP1J	.5 – 1	10 solid – 2 solid	1 – 1.25	25
CWP2J	1.25 – 2	10 solid – 2 stranded	1.5 – 2.125	12
CWP3J	2.5 – 4	10 solid – 4 stranded	2.5 – 3.125	4
CWP1JSH	.5 – 1	10 solid – 2 solid	1 – 1.25	25
CWP2JSH	1.25 – 2	10 solid – 2 stranded	1.5 – 2.125	12
CWP3JSH	2.5 – 4	10 solid – 4 stranded	2.5 – 3.125	4

Bronze Clamps for Water Pipe

CWP1JU

CWP2JU*

- High-strength silicone bronze
- Used for connecting copper conductors to metallic water pipe or ground rods
- CSA® Listed

Part No.	Water Pipe Size (in)	Conductor Range (AWG)	Standard Package
CWP1JJ†	.5 – 1	10 solid – 4 stranded	100
CWP1JU*	.5 – 1	10 solid – 2 stranded	1
CWP2JU*	1.25 – 2	10 solid – 2 stranded	1
CWP6J	4.25 – 6	10 solid – 4 stranded	1
CWP4J**	2.5 – 4	10 solid – 4 stranded	1

* With copper screw for use in direct burial applications
** UL® Listed
† Not CSA Listed

Zinc Clamp for Water Pipe

- Zinc die cast
- cULus Listed

Part No.	Water Pipe Size (in)	Conductor Range (AWG)	Standard Package
ZWP1J	.5 – 1	10 solid – 6 solid	25

Bronze Pipe Clamp to Rigid Conduit

- For use in grounding rigid conduit systems to metallic water pipe

Part No.	Water Pipe Size (in)	Conductor Range (AWG)	Conduit Size (in)	Standard Package
CWP1JH12	.5 – 1	10 solid – 6 solid	.5	100
CWP1JH34	.5 – 1	10 solid – 2/0 stranded	.75	100
CWP2JH34	1.25 – 2	10 solid – 2/0 stranded	.75	100
CWP4JH34	2.5 – 4	10 solid – 2/0 stranded	.75	50
CWP2JH44	1.25 – 2	10 solid – 3/0 stranded	1	100

Bronze Pipe Clamp to Rigid Conduit

- For use in grounding rigid conduit systems to metallic water pipe

Part No.	Water Pipe Size (in)	Conductor Range (AWG)	Conduit Size (in)	Standard Package
CWP12SHE	.5 – 1	10 solid – 6 solid	.5	100
CWP34SHE	.5 – 1	10 solid – 2/0 stranded	.75	100

Bronze Vise Clamps

VC62

VC220

- Used to splice 2 conductors together

Part No.	Conductor Range (AWG)	Standard Package
VC62	6 solid – 2 solid	25
VC220	2 solid – 2/0 stranded	25

Tinned Bronze Fence Clamps

- Made from high copper-content alloy
- Theft-deterrent appearance
- Stainless steel nuts, bolts and washers included

Part No.	Pipe Size (in)	Conductor Size (AWG)	Conductor Size (mm^2)	Pipe Size (mm)
Single Hole				
FC073	1-1/2	4 Solid - 2/0 Stranded	16 - 70 Stranded	40
FC074	1-1/2	2/0 Solid - 250 MCM Stranded	50 - 120 Stranded	40
FC075	2	4 Solid - 2/0 Stranded	16 - 70 Stranded	50
FC076	2	2/0 Solid - 250 MCM Stranded	50 - 120 Stranded	50
FC078	2-1/2	2/0 Solid - 250 MCM Stranded	16 - 120 Stranded	65
FC079	3	4 Solid - 2/0 Stranded	16 - 70 Stranded	80
FC080	3	2/0 Solid - 250 MCM Stranded	50 - 120 Stranded	80
FC082	3-1/2	4 Solid - 2/0 Stranded	16 - 120 Stranded	90
Dual Hole				
FC076 DH	2	2 x 2/0 Solid - 250 MCM Stranded	50 - 120 Stranded	50
FC078 DH	2-1/2	2 x 2/0 Solid - 250 MCM Stranded	16 - 120 Stranded	65
FC082 DH	3-1/2	2 x 4 Solid - 2/0 Stranded	16 - 120 Stranded	90

Ground Clamps and Connectors

Transformer Tank Grounding Connectors

TGC2/0

CC207

CC207SI

CC207SIJ

- Cast of high conductivity bronze and 1/2" – 13 stud
- Fit all EEI-NEMA distribution transformers
- No special tools required — use regular lineman's wrench
- RUS Approved

Part No.	Conductor Range (AWG)	Stud Thread Size	Standard Package
TGC2/0*	10 solid – 2/0 stranded	1/2" – 13	100
CC207	6 solid – 1/0 stranded	1/2" – 13	50
CC207SI	6 solid – 1/0 stranded	1/2" – 13; 1" long	50
CC207SIJ	6 solid – 1/0 stranded	1/2" – 13; with jam nut	50
CC2074/0	2/0 stranded – 4/0 stranded	1/2" – 13	25

* Eye bolt rotates to accommodate cable in either vertical or horizontal direction

Tin-Plated, Silicon Bronze Jumper Clamp

- For use in telecom applications
- UL® Listed

Part No.	Conductor Range (AWG)	Standard Package
KUL	6 solid	100

Copper Lug Mechanical Connector

Part No.	Conductor Range (AWG)	Stud Thread Size	Standard Package
EL4	14 solid – 4 stranded	5/16-24 UNF-2B	100

Heavy Duty Rebar Clamps

- Provides two connection points to concrete encased electrodes (rebar) for states where the Authority Having Jurisdiction (AHJ) requires it.
- Meets 2005 NEC® standard requirement for bonding to rebar into the grounding system
- Has high-strength bronze alloy construction
- Easy to install
- UL Listed

Part No.	Conductor Range (AWG)	Conductor Range (metric)	Rebar Size (imperial)	Rebar Size (metric)	Standard Package
RC70	8 solid – 2/0 stranded	10 – 70 mm²	#3 – #6	8 – 18 mm	1
RC100	8 solid – 4/0 stranded	10 – 100 mm²	#6 – #11	18 – 36 mm	1

Intersystem Bonding Termination Bar (IBTB)

- Interconnects and terminates grounding conductors from electrical power service, telephone, CATV, radio and TV antennas
- Ideal for residential and small commercial applications
- Meets requirements of 2008 NEC Article 250.94
- cULus® Listed

Part No.	Conductor Range	Standard Package
IBTB	(5) 14 Solid - 6 Stranded; (1) 6 Solid - 2 Stranded; (5) 1.5 - 25mm²; (1) 16 - 35 mmm²	10

Lay-In Lug

- Tinned Copper
- Lay-in feature allows for easy positioning
- cULus Listed

Part No.	Conductor Range	Standard Package
EL6CEDB	#14 Solid – #4 Solid	50

Solar Bonding Lug

- Bonds the frames and mounting structures of solar photo voltaic systems in accordance with NEC® requirements
- Copper alloy is corrosion resistant and galvanically compatible with copper grounding conductors and aluminum photo voltaic module frames
- Lay-in feature allows for easy positioning along multiple frames
- cULus Listed

Part No.	Description	Conductor Range (AWG)
EL6CS	Tinned Bronze Lug with #10 Hardware	#14 Sol - #6 Str
EL6CS8	Tinned Bronze Lug with #8 Hardware	#14 Sol - #6 Str
EL6CSNH	Tinned Bronze Lug without Hardware	#14 Sol - #6 Str
EL6CSDB	Direct Burial - Tinned Bronze Lug with #10 Hardware	#14 Sol - #6 Str
EL6CSDB8	Direct Burial - Tinned Bronze Lug with #8 Hardware	#14 Sol - #6 Str
EL6CSDBNH	Direct Burial - Tinned Bronze Lug without Hardware	#14 Sol - #6 Str

Potential Equalization Clamp - PEC100

- High peak current capability - long service life
- Weatherproof enclosure - suitable for direct burial
- ATEX approved

The PEC is an equipotential bonding device that can be used to minimize damage in applications where separated ground systems are required. The PEC is ATEX approved, making the device suitable for use in explosion hazard areas such as the protection of pipeline insulated joints.