

Grounding System Components

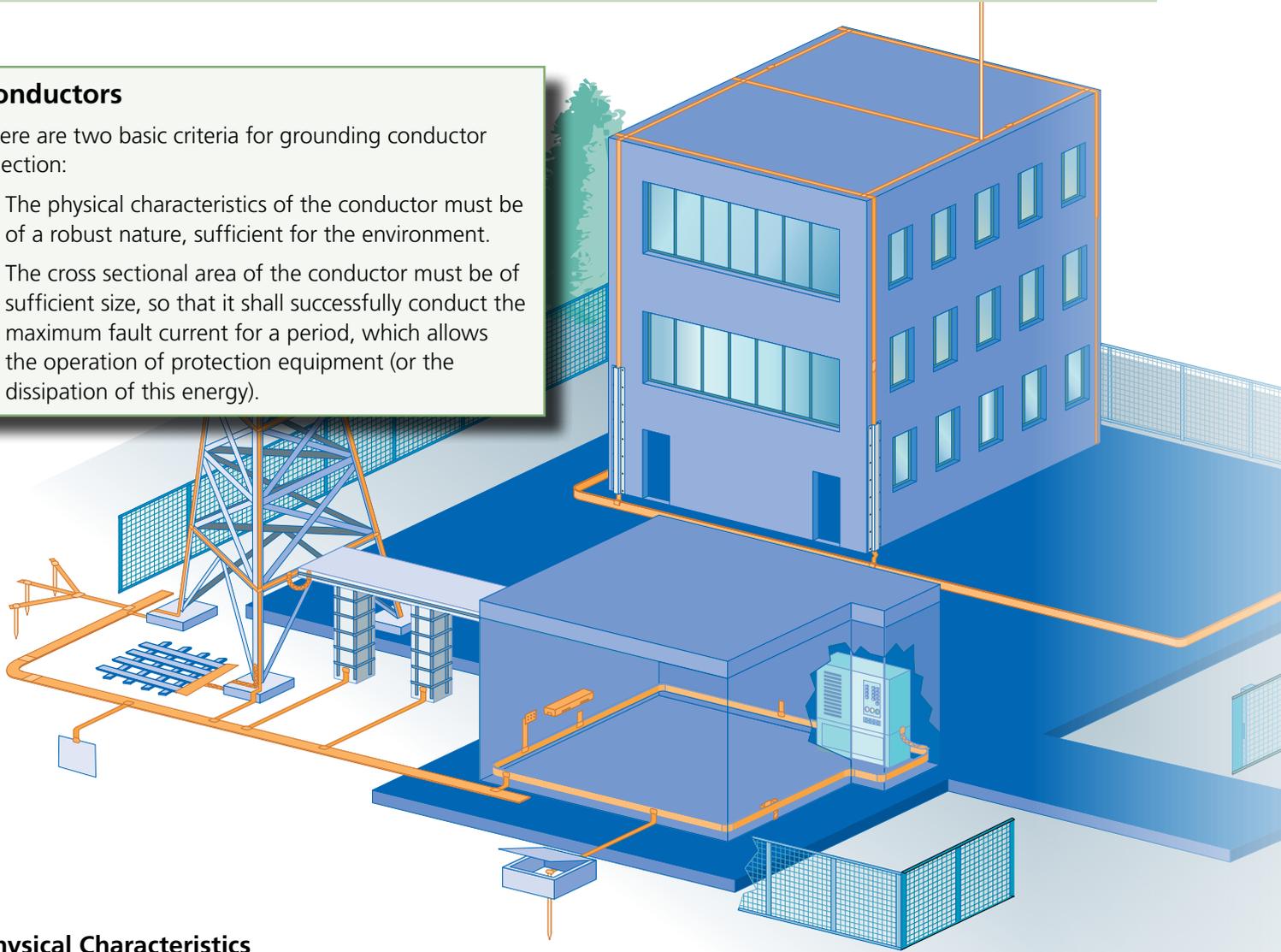


Ground Conductors

Conductors

There are two basic criteria for grounding conductor selection:

1. The physical characteristics of the conductor must be of a robust nature, sufficient for the environment.
2. The cross sectional area of the conductor must be of sufficient size, so that it shall successfully conduct the maximum fault current for a period, which allows the operation of protection equipment (or the dissipation of this energy).



Physical Characteristics

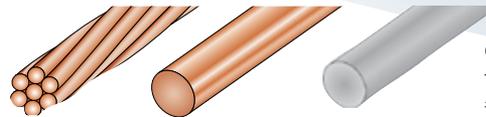
The most common ground conductor is a soft drawn, stranded copper conductor. Flat copper strip / tape is also popular because it offers a large surface area, resulting in lower impedance.

In some circumstances, the maximum fault current for the installation is small. While a conductor of correspondingly small size could be used, a minimum cross section, often set by the governing authority or applicable standards body (to minimize potential damage likely to occur from any future excavation on the site), is applied.

Maximum Fault Current

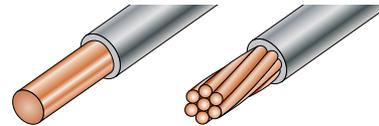
Where higher fault conditions exist, the conductor size is determined by considering the circumstances required to avoid fusing (melting) the conductor. The accepted industry standard is IEEE® 80, Guide for Safety in Substation Grounding.

Bare Copper & Tinned Copper



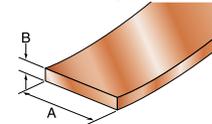
Contact ERICO for available sizes #8 AWG and up.

Insulated Cables



Contact ERICO for available sizes #8 AWG and up.

Flat Strip Ground Conductor



- Pure electrolytic copper
- Low impedance
- Lower impedance than equivalent sized round conductor

Contact ERICO for available sizes minimum thickness of 26 gauge (0.159 in)

Copper-Bonded Steel Conductor

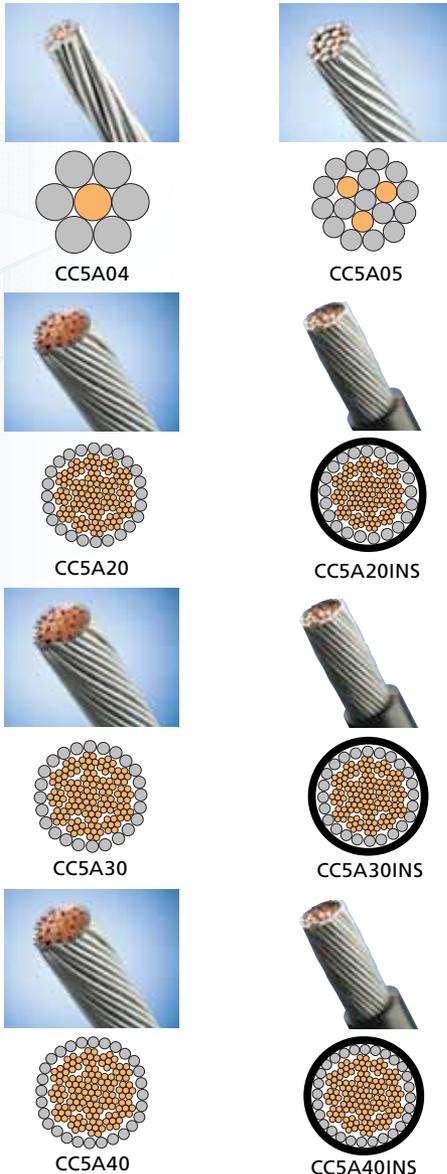


Contact ERICO for more information.

Theft Deterrent Composite Cable

Theft deterrent composite cables are bare or insulated concentric stranded conductors that consist of peripheral galvanized steel stranding, which protects and conceals the internal tinned copper strands.

These conductors are ideal for exposed electrical distribution grounding leads where copper theft may occur. These conductors are difficult to cut with hand tools and the outer steel stranding is magnetic, which further deters thieves looking for copper.



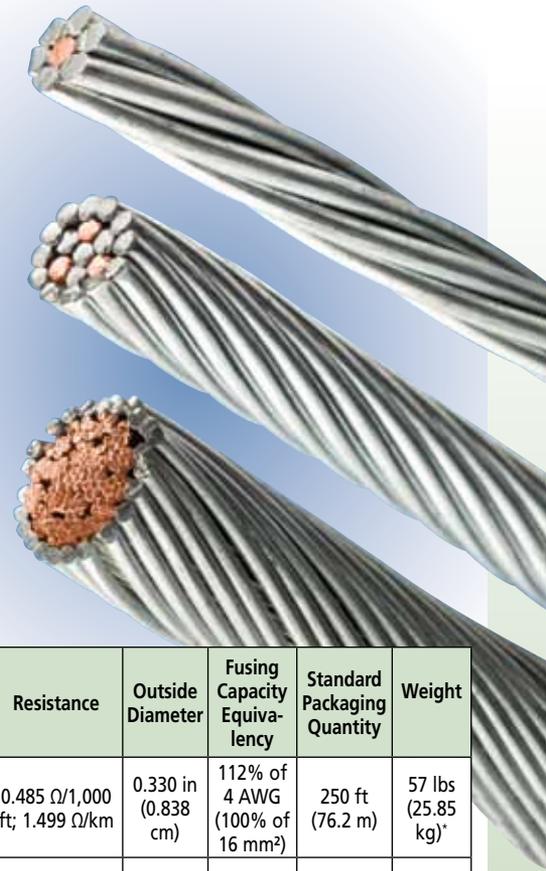
Aluminum Composite Cable Clip



- For use with CC5A04 Theft Deterrent Cable



Part No.	Conductor Range (AWG)	Standard Package
CCL04A	14 solid – 2/0 solid	100



Global Part Number (Reel)	Stranding	Resistance	Outside Diameter	Fusing Capacity Equivalency	Standard Packaging Quantity	Weight
CC5A04	(1) Tinned Copper, (6) Galvanized Steel	0.485 Ω/1,000 ft; 1.499 Ω/km	0.330 in (0.838 cm)	112% of 4 AWG (100% of 16 mm ²)	250 ft (76.2 m)	57 lbs (25.85 kg)*
CC5A05	(3) Tinned Copper, (16) Galvanized Steel	0.457 Ω/1,000 ft; 1.591 Ω/km	0.334 in (0.848 cm)	113% of 4 AWG (100% of 16 mm ²)	250 ft (76.2 m)	58 lbs (26.31 kg)*
CC5A20	(133) Tinned Copper, (21) Galvanized Steel	0.098 Ω/1,000 ft; 0.320 Ω/km	0.526 in (1.336 cm)	100% of 2/0 AWG (> 50 mm ²)	200 ft (61.0 m)	109 lbs (49.44 kg)*
CC5A-20INS	(133) Tinned Copper, (21) Galvanized Steel	0.098 Ω/1,000 ft; 0.320 Ω/km	0.526 in (1.336 cm)	100% of 2/0 AWG (> 50 mm ²)	200 ft (61.0 m)	135 lbs (61.24 kg)*
CC5A30	(133) Tinned Copper, (24) Galvanized Steel	0.076 Ω/1,000 ft; 0.249 Ω/km	0.572 in (1.453 cm)	100% of 3/0 AWG (> 70 mm ²)	200 ft (61.0 m)	135 lbs (61.23 kg)*
CC5A-30INS	(133) Tinned Copper, (24) Galvanized Steel	0.076 Ω/1,000 ft; 0.249 Ω/km	0.572 in (1.453 cm)	100% of 3/0 AWG (> 70 mm ²)	200 ft (61.0 m)	135 lbs (61.23 kg)*
CC5A-30INSK	(133) Tinned Copper, (24) Galvanized Steel	0.076 Ω/1,000 ft; 0.249 Ω/km	0.572 in (1.453 cm)	100% of 3/0 AWG (> 70 mm ²)	1000 ft (304.8 m)	677.2 lbs (367.2 kg)*
CC5A40	(133) Tinned Copper, (28) Galvanized Steel	0.057 Ω/1,000 ft; 0.188 Ω/km	0.656 in (1.666 cm)	100% of 4/0 AWG (> 95 mm ²)	200 ft (61.0 m)	172 lbs (78.02 kg)*
CC5A-40INS	(133) Tinned Copper, (28) Galvanized Steel	0.057 Ω/1,000 ft; 0.188 Ω/km	0.656 in (1.666 cm)	100% of 4/0 AWG (> 95 mm ²)	200 ft (61.0 m)	199 lbs (90.27 kg)*

*Weight does not include reel.

Ground Rods and Couplers



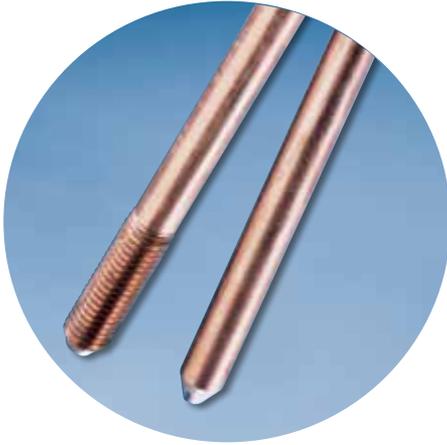
Ground Rods

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.



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.

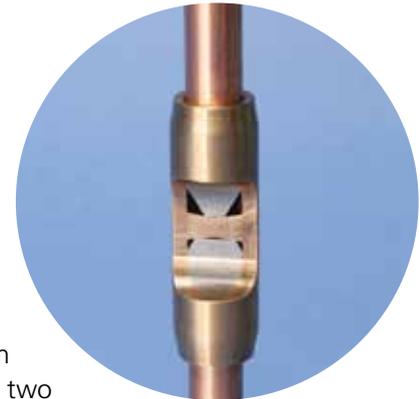
Driving Sleeves

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



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.



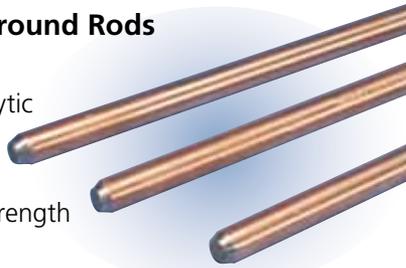
Threaded Coupling

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

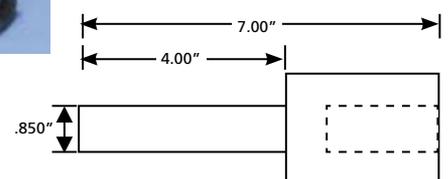


Part No.	Ground Rod Size	Standard Package
EDS58	5/8" Copper-Bonded Rods (.563" diameter)	1

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
DS125	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
CR125	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



Ground Rods and Couplers

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



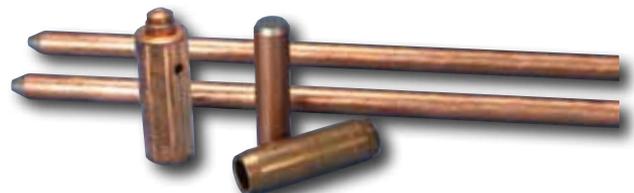
- Meets ANSI®/NEMA® GR1
- RUS Approved where indicated
- Zinc-coated exteriors are hot-dip galvanized for solid protection against corrosion, in accordance with ASTM® specification A153-78
- Surfaces are rigidly inspected to eliminate seams, slivers and other defects

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			Wire Sizes	Metric Wire Sizes
		2 - ERITECH Ground Rods	ERITECH HAMMERLOCK or Clamp	ERITECH Drive Sleeve		
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



ERITECH® HAMMERLOCK for 2 Conductors



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 Galvanized 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
EHL34G1V*	3/4	4 stranded – 2 stranded
EHL34G1K	3/4	6 solid – 4 solid
EHL34G1K*	3/4	6 solid – 4 solid

Standard Package: 25

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 Galvanized 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
HDC58 ^a	5/8	8 solid – 1/0 stranded	50
HDC58R ^a	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

^a 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.

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

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 recommended 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

Direct Burial Ground Clamps



EK16:
Parallel connection

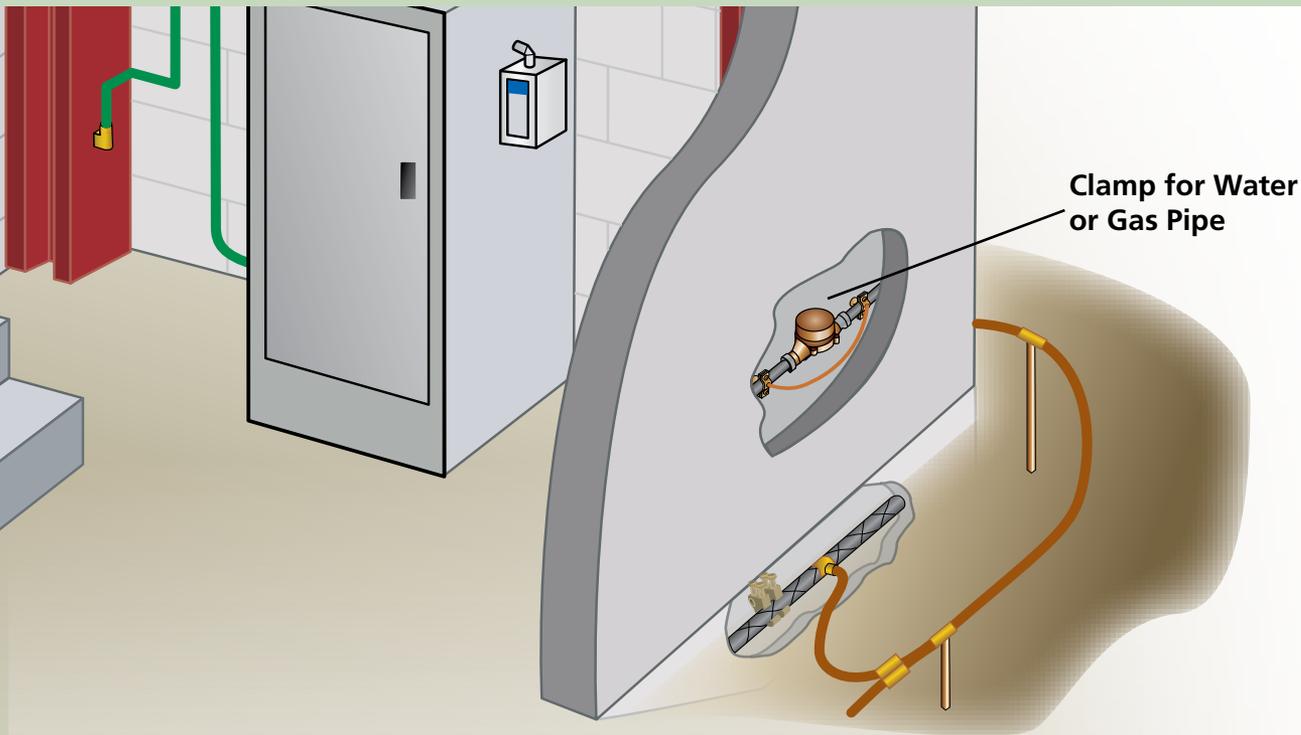


EK17:
Perpendicular connection

- 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 mm ² – 25 mm ²	#4 – #8	10 – 25 mm	50
EK17	10 solid - 2 solid	5.5 mm ² – 25 mm ²	#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



- 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
CWP1JU†	.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



Ground Clamps and Connectors

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

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

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

Ground Clamps and Connectors



Transformer Tank Grounding Connectors



TGC2/0



CC207

- 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



CC207SI

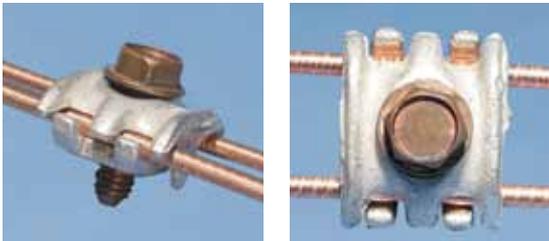


CC207SIJ

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 mm ²	#3 – #6	8 – 18 mm	1
RC100	8 solid – 4/0 stranded	10 – 100 mm ²	#6 – #11	18 – 36 mm	1



Ground Clamps and Connectors



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 - 25mm ² ; (1) 16 - 35 mm ²	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.

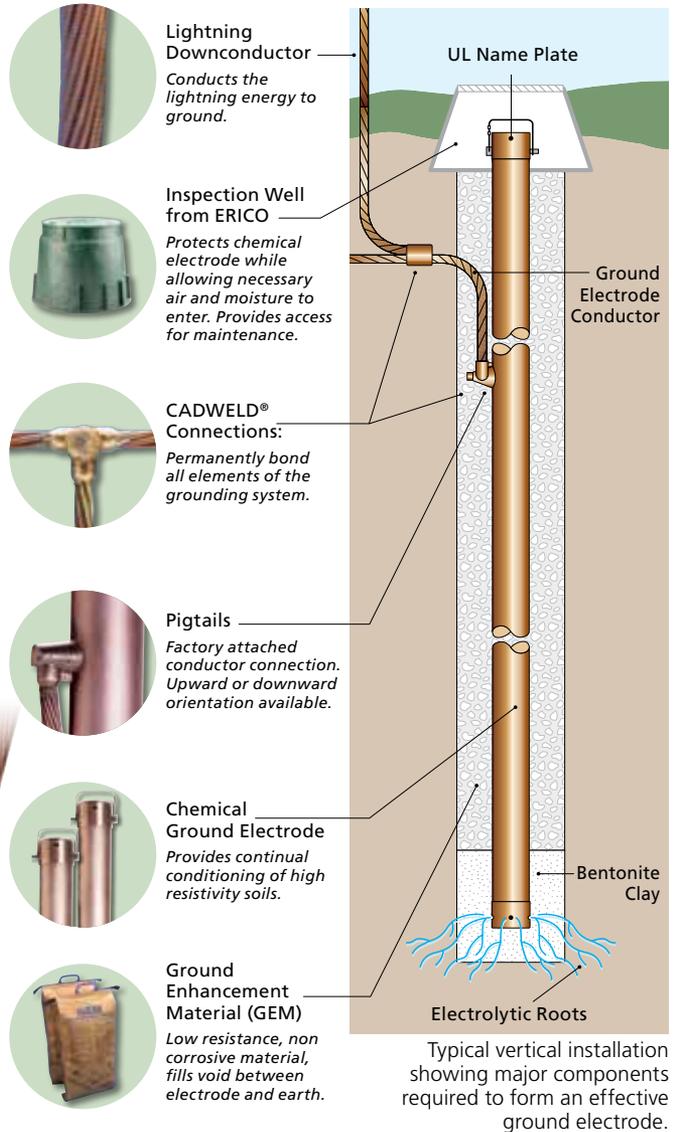
Chemical Ground Electrodes

Chemical ground electrodes, part of the ERITECH® line of Facility Electrical Protection products from ERICO, provide a low impedance ground in locations of high soil resistivity and dry soil conditions. Used in conjunction with a bentonite backfill and ERICO's unique GEM material, the ERITECH brand of chemical ground electrode system provides a method to improve soil resistivity directly surrounding the electrode, and can replace multiple conventional ground rods. It maintains a low ground resistance, maintenance-free installation that dissipates lightning energy and other dangerous electrical fault currents, even in sandy or rocky soil conditions. The chemical ground electrode is useful for providing an effective earth in poor soil conditions where space for electrodes is limited. Market applications include telecommunications, power generation and distribution, commercial and industrial, manufacturing, transportation (rail and aviation), lightning protection, recreational facilities, and defense.

ERITECH brand of chemical ground electrodes are most effective when installed as part of a total system that includes high conductivity backfill materials, access/inspection wells, and permanent, reliable CADWELD® connections. They may be installed either vertically or horizontally.

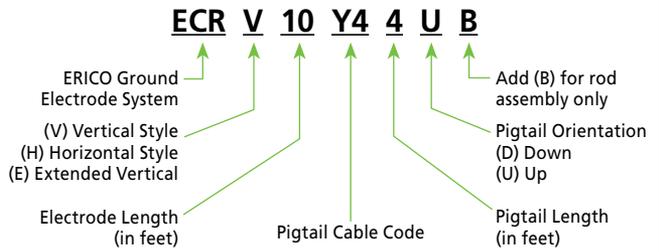
Features

- Contain natural electrolytic salts, which permeate into the surrounding soil to condition the soil and increase its conductivity
- Low impedance to effectively dissipate lightning and electrical fault currents
- Easy connection to ground electrode conductor using the factory provided pigtail (up or down orientation)
- Provides decades of reliable services due to rugged construction, and high quality metals with a 30-year minimum service life
- 2-1/8" outside diameter, Type K copper pipe, 0.083" wall contains natural electrolytic salts that permeate into the surrounding soil, improving electrode to soil connection
- Available in continuous sections up to 10 feet in length; longer rods can be field assembled using 5- or 10-foot extensions
- Optional factory attached radial strips are available to reduce impedance to high-frequency lightning energy and to control the direction of the dissipation
- L-shaped rods are available for horizontal installation applications where it is impractical to auger deep vertical holes
- Access segment on horizontal (L-shaped) chemical ground electrodes is 32" deep
- Over 100 configurations available



Typical vertical installation showing major components required to form an effective ground electrode.

Reference Part Number Code



Chemical ground rods can be ordered as individual components or as a complete kit. Kits include the chemical electrode (pre-filled with electrolytic salts), Bentonite, GEM backfill, and an access well. To order the chemical electrode only, add "B" to the end of the part number.



Chemical Ground Electrodes

Part No.	Height (in)	Length (ft)	Conductor Size (AWG)	Cable Code	Pigtail Length (ft)
Horizontal Installation					
ECRH081T4D	32	8	#2 Solid, Tinned	1T	4
ECRH081T4U	32	8	#2 Solid, Tinned	1T	4
ECRH081T4UB*	32	8	#2 Solid, Tinned	1T	4
ECRH082C4U	32	8	1/0 Stranded	2C	4
ECRH101T4D	32	10	#2 Solid, Tinned	1T	4
ECRH102C4U	32	10	1/0 Stranded	2C	4
ECRH102Q4D	32	10	4/0 Stranded	2Q	4
ECRH102Q4DB*	32	10	4/0 Stranded	2Q	4
ECRH102G4U	32	10	2/0 Stranded	2G	4
ECRH102G4D	32	10	2/0 Stranded	2G	4
ECRH102Q4U	32	10	4/0 Stranded	2Q	4
ECRH101T4U	32	10	#2 Solid, Tinned	1T	4
ECRHE152Q4D	32	15	4/0 Stranded	2Q	4
ECRHE202Q4U	32	20	4/0 Stranded	2Q	4
Vertical Installation					
ECRV102L4U	10	-	3/0 Stranded	2L	4
ECRV102Q3U	10	-	4/0 Stranded	2Q	3
ECRV102C4U	10	-	1/0 Stranded	2C	4
ECRV102Q10U	10	-	4/0 Stranded	2Q	10
ECRV102V4D	10	-	250 MCM Stranded	2V	4
ECRV101T4D	10	-	#2 Solid, Tinned	1T	4
ECRV101V10D	10	-	#2 Stranded	1V	10
ECRV102Q5U	10	-	4/0 Stranded	2Q	5
ECRV102Q4UB*	10	-	4/0 Stranded	2Q	4
ECRV102Q5UB*	10	-	4/0 Stranded	2Q	5
ECRV103Q4D	10	-	500 MCM Stranded	3Q	4
ECRV102G4U	10	-	2/0 Stranded	2G	4
ECRV101T4U	10	-	#2 Solid, Tinned	1T	4
ECRV102G4D	10	-	2/0 Stranded	2G	4
ECRV102Q4D	10	-	4/0 Stranded	2Q	4
ECRV102Q4DB*	10	-	4/0 Stranded	2Q	4
ECRV102Q4U	10	-	4/0 Stranded	2Q	4
ECRV121T4U	12	-	#2 Solid, Tinned	1T	4
ECRV122Q4U	12	-	4/0 Stranded	2Q	4
ECRE152Q4U	15	-	4/0 Stranded	2Q	4
ECRE201T4U	20	-	#2 Solid, Tinned	1T	4
ECRE202G4U	20	-	2/0 Stranded	2G	4
ECRE202Q4U	20	-	4/0 Stranded	2Q	4
ECRE402Q4U	40	-	4/0 Stranded	2Q	4
ECRE401T4D	40	-	#2 Solid, Tinned	1T	4

- * Includes rod assembly only.
- * All chemical ground rod kits contain the following components, except part numbers ending in "B".
- * Contact ERICO for additional configurations.

Kit Components

Part No.	Description
GEM25A	25 lb (11.36 kg) bag of GEM – Ground Enhancement Material
BENTFILL	50 lb (22.68 kg) bag of Bentonite backfill
T416B	High-density polyethylene inspection well for no traffic areas

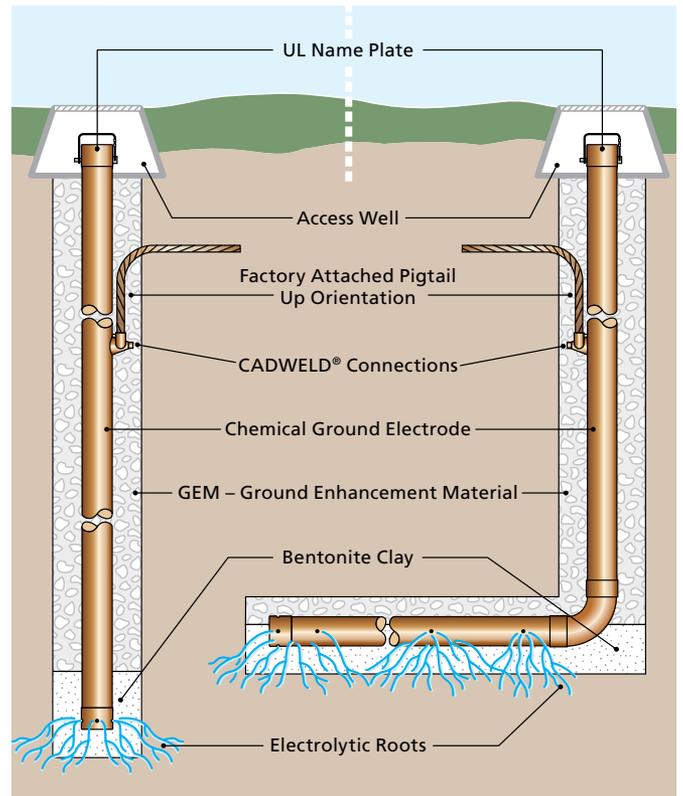
Copper Pigtail Cable Codes

Conductor Code	Conductor Size (AWG)	Conductor Code	Conductor Size (AWG)
1T	#2 Solid Tinned	2Q	4/0 Stranded
2C	1/0 Stranded	2V	250 MCM Stranded
2G	2/0 Stranded	3Q	500 MCM Stranded

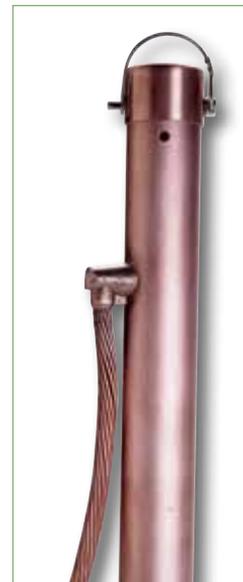
Salt Mix

Part No.	Description
ECRCHM15LB	Chemical Ground Rod Salt Mix, 15-lb package (6.8 kg)

Vertical Installation Horizontal Installation



Chemical Ground Electrodes can be installed either vertically or horizontally. Chemical electrodes are available in a range of standard and custom configurations. They can be purchased individually or part of a complete kit.



Vertical Installation



Chemical Ground Electrodes can be extended using threaded couplers.

Ground Enhancement Material



Ground Enhancement Material (GEM)

Developed in 1992, Ground Enhancement Material (GEM) is a superior conductive material that solves your toughest grounding problems. It is the ideal material to use in areas of poor conductivity, such as rocky ground, mountain tops and sandy soil. GEM is also the answer in situations where ground rods can't be driven or where limited land area makes adequate grounding difficult with conventional methods. Only rarely do grounding system designers and contractors get to work on a site with good grounding conditions. Even under ideal circumstances, soil structure can vary and make it difficult to achieve uniform, low levels of resistivity across a wide area. Under almost all soil conditions, the use of a ground enhancement material will improve grounding effectiveness. Some are permanent and require no maintenance. When selecting a ground enhancement material be sure it is compatible with the ground rod, conductor and connection material.

To improve the conductivity of a grounding system, ERICO recommends using Ground Enhancement Material (GEM).

GEM is a low-resistance, non-corrosive, carbon dust based material that helps improve grounding effectiveness, especially in areas of poor conductivity. GEM contains cement, which hardens when set to provide a permanent, maintenance-free, low-resistant grounding system that never leaches or washes away. GEM does not adversely affect soil and will not leach ions or contaminate ground water. It meets all EPA requirements for landfill (USA). A Material Safety Data Sheet (MSDS) is available on request.



Features and Benefits

GEM helps reduce earthing resistance and maintains low resistance permanently. GEM helps provide conductivity for the life of the grounding system.

GEM is *effective*

- Dramatically reduces earth resistance and impedance measurements
- Maintains constant resistance for the life of the system once in its set form
- Performs in all soil conditions even during dry spells

GEM is *easy to use*

- Easy-to-handle 25 lb (11.36 kg) bags or 25 lb bucket (GEM25ABKT)
- Requires one person to install
- Can be easily mixed into a slurry
- Solidifies into a conductive cement in three days
- May reduce the size of the grounding system where conventional methods are unsatisfactory
- Reduces vandalism (ground rods cannot be easily removed when set in concrete)

GEM is *permanent*

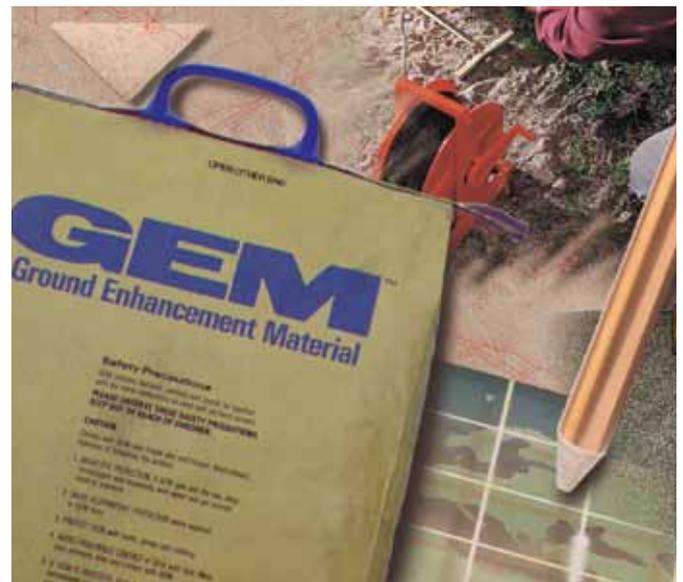
- Does not dissolve, decompose or leach out with time
- Does not require periodic charging treatments or replacements
- Does not require maintenance
- Does not require the continuous presence of water to maintain its conductivity



ERICO provides 25 lbs of Ground Enhancement Material (GEM) in a convenient, easy to handle bucket container. Just pour the required amount of clean-potable water into the bucket and mix to create a slurry form. Then proceed to pour the slurry mixture into the hole or trench.

Part Number	Description
GEM25A	25-lb. (11.36 kg) bag with handles
GEM25ABKT	25-lb. (11.36 kg) plastic bucket with locking lid

For more information, contact your local ERICO sales representative for a quote. You can reference the GEM part numbers.



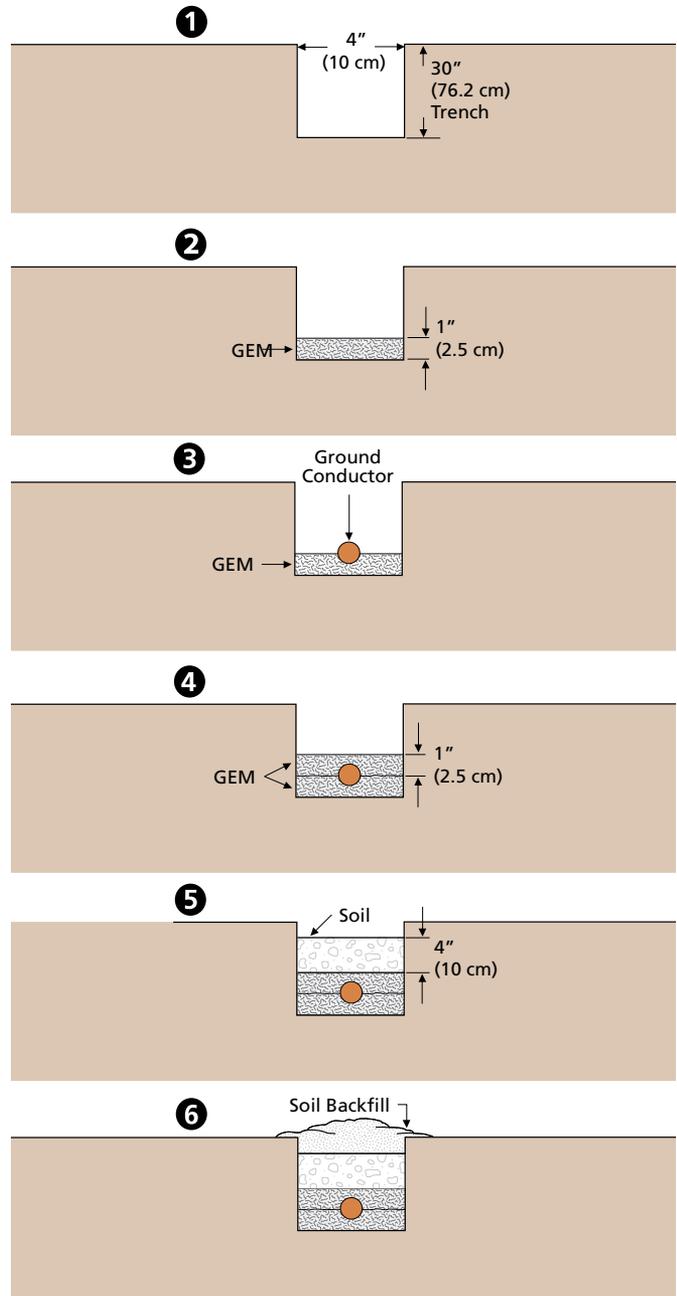
Ground Enhancement Material

Trench Installation:

1. Premix GEM into a slurry form. Use 1.5 to 2 gallons (5.7 to 7.6 liters) of clean-potable water per bag or bucket of GEM. To mix GEM into a slurry form, use a standard cement mixer or mix in a mixing box, wheelbarrow, etc. Use 1.5 to 2 gallons (5.7 to 7.6 liters) of clean-potable water per bag of GEM. Do not mix GEM with salt water.
2. Spread out enough GEM to uniformly cover bottom of trench—about 1 inch (2.5 cm) deep. (See Table)
3. Place conductor on top of GEM. (See Note 1)
4. Spread more GEM on top of conductor to completely cover conductor – about 1 inch (2.5 cm) deep. Allow GEM to harden. Wait 30 minutes to one hour before filling the trench with soil backfill.
5. Carefully cover the GEM with soil to a depth of about 4 inches (10 cm), making sure not to expose the conductor.
6. Tamp down the soil, then fill in the trench.

Note 1: Wait for the GEM to harden, about 15 to 20 minutes, before placing the conductor on top of the GEM. You must apply 4 inches (10 cm) of insulating material to the conductors and ground rods exiting the GEM, starting 2 inches (5 cm) inside the GEM.

Note 2: Excess standing water must be removed from trench.



Estimated linear feet of ground conductor covering with each bag of GEM.

Trench Width In (Cm)	Total Thickness of GEM							
	1 in (2.54 cm)		2 in (5.08 cm)		3 in (7.62 cm)		4 in (10.16 cm)	
4 (10.0)	14.0 ft	35.6 cm	7 ft	17.8 cm	4.7 ft	12 cm	3.5 ft	8.8 cm
6 (15.2)	9.3 ft	23.6 cm	4.7 ft	12 cm	3.1 ft	7.8 cm	2.3 ft	5.8 cm
8 (20.3)	7.0 ft	17.8 cm	3.5 ft	8.8 cm	2.3 ft	5.8 cm	1.8 ft	4.6 cm
10 (25.4)	5.6 ft	14.2 cm	2.8 ft	7.0 cm	1.9 ft	4.8 cm	1.4 ft	3.6 cm
12 (30.5)	4.7 ft	12 cm	2.3 ft	5.8 cm	1.6 ft	4 cm	1.2 ft	3 cm

A 25-pound bag of GEM will cover 7 linear feet (2.1 m) of conductor length for a 4-inch-wide (10 cm), 2-inch-thick (5 cm) covering 1 inch (2.5 cm) below and 1 inch (2.5 cm) above conductor, based on a density of 63.5 lb/cu. ft.

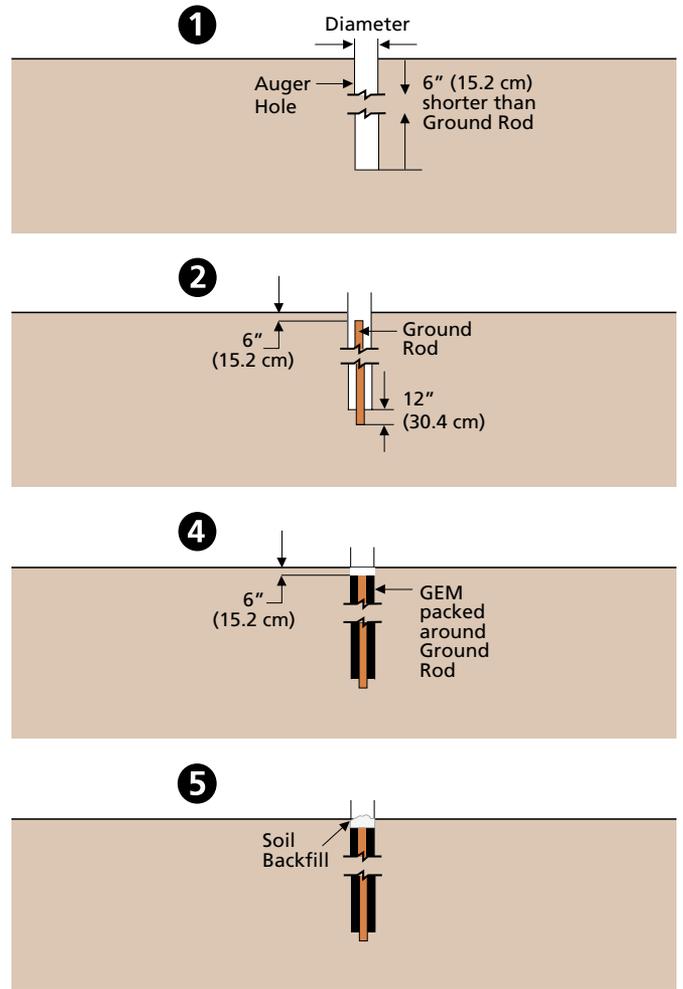


Ground Rod Backfill Installation:

1. Auger a 3-inch (7.5 cm) or larger diameter hole to a depth of 6 inches (15 cm) shorter than the length of the ground rod.
2. Place ground rod into augered hole and drive 1 foot (30 cm) (if possible) into bottom of the hole. The top of the ground rod will be approximately 6 inches (15 cm) below grade. At this time, make any connections to ground rod using CADWELD® connections. (See Note 1)
3. Premix GEM into a slurry form. Use 1.5 to 2 gallons (5.7 to 7.6 liters) of clean-potable water per bag or bucket of GEM.
4. Pour the appropriate amount of GEM (see table) around the ground rod. To ensure the GEM material completely fills the hole, tamp around the ground rod with a pole. Wait 30 minutes to 1 hour before filling the hole with soil backfill.
5. Fill remainder of augered hole with soil removed during augering. For various augered-hole diameters and depths, see the table below.

Note 1: 4 inches (10 cm) of insulating material should be applied to the conductors and ground rods exiting the GEM, starting 2 inches (5 cm) inside the GEM.

Note 2: Excess standing water must be removed from the hole.



Estimated bags of GEM for backfilling around ground rods to a density of 63.5 lb/ft³

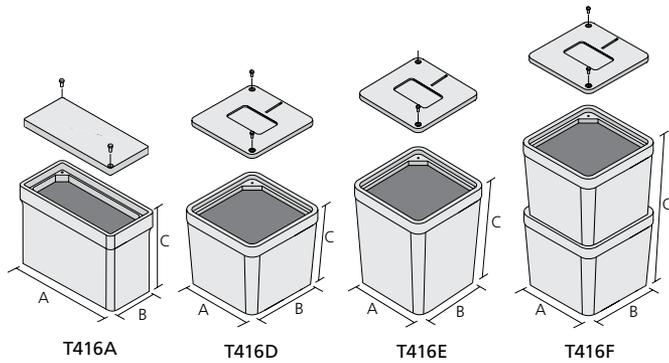
Diameter of Hole In (Cm)	Depth of Hole*						
	6 ft (1.83 m)	7 ft (2.13 m)	8 ft (2.44 m)	9 ft (2.74 m)	17 ft (5.18 m)	19 ft (5.79 m)	20 ft (6.10 m)
3 (7.6)	2 bags	2 bags	2 bags	2 bags	4 bags	4 bags	4 bags
4 (10)	2 bags	3 bags	3 bags	3 bags	6 bags	7 bags	7 bags
5 (12.7)	3 bags	4 bags	4 bags	5 bags	9 bags	10 bags	10 bags
6 (15.2)	5 bags	5 bags	6 bags	7 bags	13 bags	14 bags	15 bags
7 (17.8)	6 bags	7 bags	8 bags	9 bags	17 bags	19 bags	20 bags
8 (20.3)	8 bags	9 bags	11 bags	12 bags	22 bags	25 bags	26 bags
9 (22.8)	10 bags	12 bags	13 bags	15 bags	28 bags	31 bags	32 bags
10 (25.4)	12 bags	14 bags	16 bags	18 bags	34 bags	38 bags	40 bags

* 8-foot (2.44 m) minimum rod length required to be in contact with the soil (or GEM), per NEC® 250-83-C.

Note: To mix GEM into a slurry form, use a standard cement mixer or mix in a mixing box, wheelbarrow, etc. Use 1.5 to 2 gallons (5.7 to 7.6 liters) of clean-potable water per bag of GEM. Do not mix GEM with salt water. For storage and safety precautions, see product packaging.

Grounding Accessories

Light Weight Polymer Concrete Inspection Wells



Part No.	A (in)	B (in)	C (in)	Cover Weight (lbs)	Weight of Box Base with Inserts (lbs)
T416A	21.5	14	18	35	36
T416D	12.875	12.875	12	11	15
T416E	12	12	18	11	17
T416F	12.875	12.875	23	11	30

Product specifications subject to change without notice.



High Density Polyethylene Inspection Wells (HDPE)



Part No.	Diameter at grade level (in)	Outside Diameter (in)	Depth (in)	Cover Weight (lbs)	Weight of Box Base with Inserts (lbs)
T416B	9.125	13	10.25	1.5	3
Stainless steel lock bolt (3/8" - 16 x 1-3/4"); boxes and covers nest in 3.25" increments; 2 knockouts per box (3.5" x 1.5"); color: green					
T416BH	9.125	13	10.25	1.5	3
Includes 4 additional 1/2" bolts on cover. Stainless steel lock bolt (3/8" - 16 x 1-3/4"); boxes and covers nest in 3.25" increments; 2 knockouts per box (3.5" x 1.5"); color: green					
T416C	11	24.5	18.25	4.2	13.4
Pipe slot (2 places); color: black T416CKEY: Key for T416C Inspection Well					

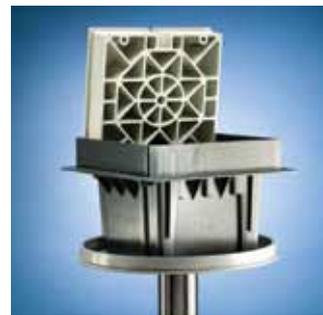


Plastic Inspection Wells



PIT03

PIT05

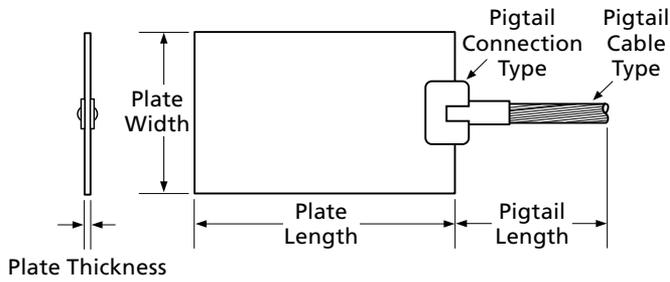


WGRS200

IP900C

Part No.	Dimensions (in) length x width x depth	Weight of Box Base with Inserts (lbs)
PIT03	9.84 x 7.87 x 8.46	3
Includes locking pin and key		
PIT05	9.76 x 9.76 x 8.27	5
UV-stabilized against degradation by sunlight; non-brittle to prevent cold weather damage		
WGRS200	-	9.5
Double flange earth seal with PIT05		
IP900C	12.8 x 12.8 x 5.71	60
Concrete Inspection Pit		





Terminated Pigtails

Part Number: GPE C E A H 024 1L 024 (T)

- Ground Plate Electrode Material → **G**
- Pigtail Connection Type → **P**
- Plate Thickness Code (Stock Tolerance) → **E**
- Plate Width Code → **A**
- Plate Length Code (inches) (3 digits required) → **H024**
- Pigtail Cable Type (ERICO Cable Code) → **1L**
- Pigtail Length (inches) → **024**
- T = Tinned → **(T)**

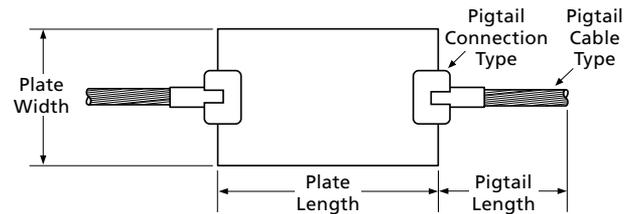
Example: GPECEAH0241L024

CADWELD® Cable Codes – Bare, Concentric Stranded Copper Conductor

2Q	4/0 Stranded	1Y	#1 Stranded	1H	#6 Stranded
2L	3/0 Stranded	1V	#2 Stranded	1E	#8 Stranded
2G	2/0 Stranded	1Q	#3 Stranded	1B	#10 Stranded
2C	1/0 Stranded	1L	#4 Stranded		

CADWELD Cable Codes – Bare, Solid Copper Conductor

2P	4/0 Solid	1X	#1 Solid	1G	#6 Solid
2K	3/0 Solid	1T	#2 Solid	1D	#8 Solid
2F	2/0 Solid	1P	#3 Solid	1A	#10 Solid
2B	1/0 Solid	1K	#4 Solid		



Through Pigtail

Copper Ground Plates with Terminated, Welded Pigtails



Material	
A	Steel (HRS M1020)
B	Stainless Steel (SS304)
C	Copper (C11000)
D	Galvanized Steel

Pigtail Connection Type	
C	Continuous (2 x "LJ" ERICO Conn.)
E	End ("LJ" ERICO Conn. Style)
N	No Pigtail

Plate Width Code			
A	1"	J	18"
B	2"	K	24"
C	3"	L	30"
D	4"	M	36"
E	5"	N	42"
F	6"	P	48"
G	9"	Q	17"
H	12"	R	10"

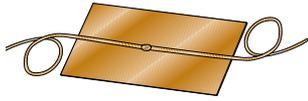
Plate Thickness Code	
A	1/32" (Min. for Lightning – Cu)
B	1/16" (Min. for Power – Cu)
C	3/32"
D	1/8"
E	1/4" (Min. for Power – Stl.)
F	3/8"
G	1/2"
H	1/64" (26 Gauge)
J	3/16"

Part No.	Thickness (in)	Width (in)	Length (in)	Cable Code	Cable Size	Pigtail Length (in)
GPECEAH0241L024	1/32	12	24	1L	#4 Stranded	24
GPECEAH0241T024	1/32	12	24	1T	#2 Solid	24
GPECEAH0242Q024	1/32	12	24	2Q	4/0 Stranded	24
GPECEAJ0181G024	1/32	18	18	1G	#6 Solid	24
GPECEAJ0182Q024	1/32	18	18	2Q	4/0 Stranded	24
GPECEAJ0241G024	1/32	18	24	1G	#6 Solid	24
GPECEAK0241G024	1/32	24	24	1G	#6 Solid	24
GPECEAK0241H024	1/32	24	24	1H	#6 Stranded	24
GPECEAK0241T024	1/32	24	24	1T	#2 Solid	24
GPECEAK0241V024	1/32	24	24	1V	#2 Stranded	24
GPECEAK0241Y024	1/32	24	24	1Y	#1 Stranded	24
GPECEAK0242G024	1/32	24	24	2G	2/0 Stranded	24
GPECEAK0242Q024	1/32	24	24	2Q	4/0 Stranded	24
GPECEAK0242V024	1/32	24	24	2V	250 MCM Stranded	24
GPECEAM0362Q024	1/32	36	36	2Q	4/0 Stranded	24
GPECEAP0481H024	1/32	48	48	1H	#6 Stranded	24
GPECEBH0121V024	1/16	12	12	1V	#2 Stranded	24
GPECEBH0122G024	1/16	12	12	2G	2/0 Stranded	24
GPECEBH0241K024	1/16	12	24	1K	#4 Solid	24
GPECEBH0242G024	1/16	12	24	2G	2/0 Stranded	24
GPECEBH0242L024	1/16	12	24	2L	3/0 Stranded	24
GPECEEK0242Q060	1/4	24	24	2Q	4/0 Stranded	60
GPECEEK0361T024	1/4	24	36	1T	#2 Solid	24

Contact ERICO for additional product configurations.

Ground Plates

Copper Ground Plates with Welded, Through Pigtails



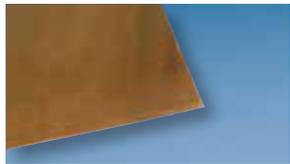
Part No.	Thickness (in)	Width (in)	Length (in)	Cable Code	Cable Size	Pigtail Length (in)
GPECCA0242Q024	1/32	12	24	2Q	4/0 Stranded	24
GPECCAJ0181V024	1/32	18	18	1V	#2 Stranded	24
GPECCA0242Q024	1/32	18	24	2Q	4/0 Stranded	24
GPECCA0361L024	1/32	18	36	1L	#4 Stranded	24
GPECCA0241L024	1/32	24	24	1L	#4 Stranded	24
GPECCA0241T024	1/32	24	24	1T	#2 Solid	24
GPECCAM0362C024	1/32	36	36	2C	1/0 Stranded	24
GPECCAM0362Q024	1/32	36	36	2Q	4/0 Stranded	24
GPECCBH0122Q024	1/16	12	12	2Q	4/0 Stranded	24
GPECCBH0242G024	1/16	12	24	2G	2/0 Stranded	24
GPECCBK0242C036	1/4	24	24	2C	1/0 Stranded	36

Copper Ground Plate with Bent Corners and Welded Pigtail



Part No.	Thickness (in)	Width (in)	Length (in)	Cable Code	Cable Size	Pigtail Length (ft)
GPECEHX1	.064	17	17	1G	#6 Solid	10

Copper Ground Plates Without Pigtailed



Part No.	Thickness (in)	Width (in)	Length (in)
GPECNAK024	1/32		24
GPECNDF006	1/8		6
GPECNEB024	1/4		24
GPECNEK024	1/4		24
GPECNEM040	1/4		36

Copper Ground Plates with Cable Attachments



LPC750
LPC751
LPC752



LPC753
LPC754
LPC755

- Copper ground plates made from 20 gauge thick, high conductivity copper sheet
- Cable attachment (LPC535L) securely fastened to plate

Part No.	Thickness (gauge)	Width (in)	Length (in)	Number of Cable Attachments
LPC750	20	12	24	2
LPC751	20	18	18	2
LPC752	20	36	36	2
LPC753	20	12	24	1
LPC754	20	18	18	1
LPC755	20	36	36	1

Copper Utility Pole Bottom Plates



EGP100

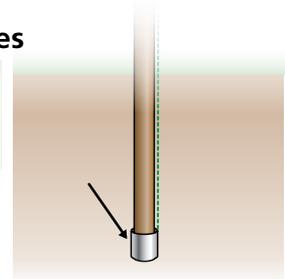


EGP100HL

Part No.	Description	Thickness (in)	Diameter (in)	Conductor Size Range
EGP100	Utility Pole-Bottom Plate with Lug*	.025	7.5	#14 Solid – #4 Stranded
EGP100HL	Utility Pole-Bottom Plate with ERITECH® HAMMERLOCK Connector	.025	7.5	#14 Solid – #4 Stranded

* RUS Approved

Copper Utility Ground Plates



Part No.	Description	Thickness (in)	Width (in)	Length (in)
UGP719	Utility Ground Plate with SRGC46 Connector*	1/16	7.5	19.25
UGP719BP5	Utility Ground Plate with Connector, quantity of 5 per package	1/16	7.5	19.25
UGP719SBP5	Utility Ground Plate with ESB2 Split Bolt	1/16	7.5	19.25
UGP738	Utility Ground Plate with SRGC46 Connector*	1/16	7.5	38.5
UGP738P5	Utility Ground Plate with SRGC46 Connector, quantity of 5*	1/16	7.5	38.5
UGP738SBP5	Utility Ground Plate with ESB2 Split Bolt	1/16	7.5	38.5

* SRGC46 Connector (for Signal Reference Grids) can be used for #4 solid – #6 stranded AWG.

Steel Ground Plates



- CSA Listed for Canada and US

Part No.	Description	Thickness (in)	Width (in)	Length (in)
EGGP	Galvanized Steel Ground Plate, without Connector	1/4	10	16
EGGPC	Galvanized Steel Ground Plate, with HDC58 Connector	1/4	10	16

