

# Ground Rods

## Features

- Better corrosion resistance than galvanized rods, achieving a life of up to 30 years in most soil types
- Better mechanical characteristics than non-metallic chemical electrodes
- Manufacturing processes use the latest technology, which ensures a uniform application in the copper coating thickness
- Average tensile strength of 80,000 psi and a tolerance of 0.25 mm fold for every 30 cm
- Exceeds the requirements of the standards ANSI®/UL® 467-1997, CSA® and ANSI/NEMA® GR-1
- Standard ground rods are marked with the ⓔ logo, year of manufacture and lot number, as well as the part number



In a grounding system, the ground electrode provides the physical connection to ground and is the preferred method used to dissipate current to the ground. There are 2 basic types of electrodes. The first is a natural kind, which is intrinsically within the installation, including all the metal buried like water pipes, the structure of the building (if it is effectively connected to the ground) and the reinforcing metal for concrete foundations.

The second type of electrode is a manufactured ground rod. These ground rods are installed specifically to improve the performance of the grounding system, which include mesh and mats, metallic plates, bare copper conductor, and rods directly buried in the ground.

The ground rod is the most commonly used type of electrode. ERICO is the world's largest manufacturer of ground rods and offers a complete line of ground rods and accessories to accommodate various types of customer requests. The ground rod consists of a steel core and a copper coating that is applied using an electrolytic process, which guarantees a permanent molecular bond, providing a good dissipation of the current during its life.

Part Number	Diameter		Length (m)	Copper Coating Thickness (mm)
	Nominal Inches	Actual mm		
613400	3/4	17.30	3.0	0.254
613480	3/4	17.30	2.4	0.254
615800MEX01	5/8	14.30	3.0	0.254
615880	5/8	14.30	2.4	0.254
615950	5/8	15.88	1.5	0.254
615900MEX01*	5/8	15.88	3.0	0.254
693400MEX	3/4	19.05	3.0	0.254

\* This ground rod meets the CFE-56100-16 specification.

NOTE: ERICO also manufactures other diameters and lengths by request.



**ERICO®**

# Ground Rods

## SECTIONAL GROUND RODS AND COUPLERS

- Sectional ground rods have the same characteristics as ERICO copper-bonded ground rods, and require a specially designed threaded coupler for superior joining of the rods.
- The steel threading of the ground rod is continuous and assures consistent conductivity and protection of the core of the rod.
- High-strength couplings are threaded bronze and chamfered at both ends for easy driving.
- “CR” type couplers are designed to allow full contact with the end of one rod and another. These are high strength, corrosion resistant couplers that ensure a permanent coupling between copper-to-copper connections.



## SECTIONAL GROUND RODS AND COUPLERS

Part Number	Nominal Diameter x Length	Standard Bundle	Master Bundle	Weight per 100 Pieces (lbs.)
631380	1/2" x 8'	5	100	540
631300	1/2" x 10'	5	100	688
635860	5/8" x 6'	5	100	452
635880	5/8" x 8'	5	100	668
635800	5/8" x 10'	5	100	856
633480	3/4" x 8'	5	50	998
633400	3/4" x 10'	5	50	1232
634400	1" x 10'	3	25	1802

## TYPE “CR” COUPLERS FOR SECTIONAL RODS

Part Number	Ground Rod Size	Standard Package	Weight per 100 Pieces (lbs.)
CR12S	1/2" Full Size	25	17
CR58	5/8" Nominal	25	25
CR34	3/4" Nominal	25	40
CR100	1" Nominal	10	85

## TYPE “DS” DRIVING STUDS FOR SECTIONAL RODS

Part Number	Ground Rod Size	Standard Package	Weight per 100 Pieces (lbs.)
FDS12	1/2" Full Size	25	16
DS58	5/8" Nominal	25	20
DS34	3/4" Nominal	25	32
DS1	1" Nominal	10	66

## TYPE “CC” COMPRESSION COUPLERS FOR COPPER-BONDED GROUND RODS

- The compression coupler is installed easily and quickly without the risk of separating the rod.
- It is made of high resistance silicon bronze.
- The 2 rods are connected at their ends by the compression coupler, forming a conductive connection.

Part Number	Nominal Diameter	Standard Package	Weight per 100 Pieces (lbs.)
CC12F	1/2" Full	25	17
CC58	5/8" Nominal	25	25
CC34	3/4" Nominal	25	40

## GROUND ROD DRIVE SLEEVES

- Used for driving ground rods.
- Applied to the end of the rod to protect it from corrosion by moisture.

Part Number	Nominal Diameter	Standard Package
B13716	5/8"	1
DH34	3/4"	1



Compression coupler – Full view



Compression coupler – Cut away

**WARNING**  
 ERICO products shall be installed and used only as indicated in ERICO's product instruction sheets and training materials. Instruction sheets are available at [www.erico.com](http://www.erico.com) and from your ERICO customer service representative. Improper installation, misuse, misapplication or other failure to completely follow ERICO's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.  
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