

Chemical Ground Electrode



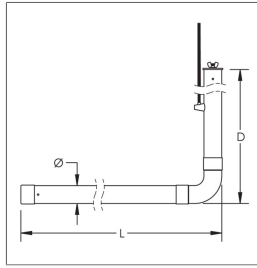
Chemical ground electrodes provide a low impedance ground in locations of high soil resistivity and dry soil conditions. Used in conjunction with a bentonite backfill and nVent ERICO's unique GEM material, the nVent ERICO chemical ground rod electrode systems provide a method to improve soil resistivity 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. Applications include telecommunications, power generation and distribution, commercial and industrial, manufacturing, transportation (rail and aviation), lightning protection, recreational facilities, and defense. The nVent ERICO chemical ground rod electrode systems are most effective when installed as part of a total system that includes high conductivity backfill materials, access/inspection wells, and permanent, reliable nVent ERICO Cadweld connections. They may be installed either vertically or horizontally.

- Contains natural electrolytic salts, which permeate into the surrounding soil to condition the soil and increase its conductivity
- 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" (54 mm) outside diameter copper pipe with 0.083" (2.1 mm) wall
- Available in continuous sections up to 10' (3.05 m) in length; longer rods can be field assembled using 5' (1.52 m) or 10' (3.05 m) 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" (813 mm) deep

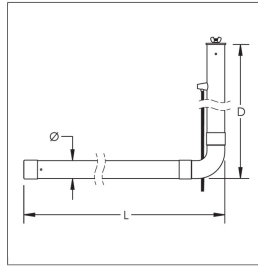
ECR V 10 2Q 4 U B		
ECR	ERICO Chemical Ground Electrode System	
V	Installation	H: Horizontal HE: Horizontal Extended V: Vertical E: Vertical Extended
10	Electrode Length (')	
2Q	Cable Size	1G: #6 Sol, 1L: #4 Str, 1T: #2 Sol, 1V: #2 Str 2C: 1/0 Str, 2G: 2/0 Str, 2K: 3/0 Sol, 2L: 3/0 Str, 2Q: 4/0 Str 2V: 250 kcmil Str, 3D: 350 kcmil Str, 3Q: 500 kcmil Str, 4L: 750 kcmil Str
4	Pigtail Length (')	
U	Pigtail Orientation	U: Up, D: Down
B*	Rod assembly only	Add "B" for rod assembly only. Leave blank for kit.

* Empty if none

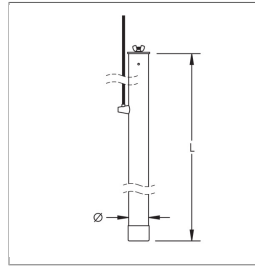
Installation



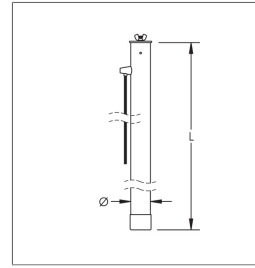
Horizontal with Pigtail Up



Horizontal with Pigtail Down



Vertical with Pigtail Up



Vertical with Pigtail Down

Material: Copper



Part Number	Electrode Length	Pigtail Length	Depth	Conductor Size	Kit
Installation: Horizontal with Pigtail Up					
ECRH081T4UB	2.4 m	1.2 m	813 mm	#2 Solid	No
ECRH081T4U	2.4 m	1.2 m	813 mm	#2 Solid	Yes
ECRH082C4U	2.4 m	1.2 m	813 mm	1/0 Stranded	Yes
ECRH081T5U	2.4 m	1.5 m	813 mm	#2 Solid	Yes
ECRH102Q2U	3.1 m	0.6 m	813 mm	4/0 Stranded	Yes
ECRH101T4UB	3.1 m	1.2 m	813 mm	#2 Solid	No
ECRH101T4U	3.1 m	1.2 m	813 mm	#2 Solid	Yes
ECRH101V4U	3.1 m	1.2 m	813 mm	#2 Stranded	Yes
ECRH102C4U	3.1 m	1.2 m	813 mm	1/0 Stranded	Yes
ECRH102G4U	3.1 m	1.2 m	813 mm	2/0 Stranded	Yes
ECRH102Q4UB	3.1 m	1.2 m	813 mm	4/0 Stranded	No
ECRH102Q4U	3.1 m	1.2 m	813 mm	4/0 Stranded	Yes
ECRH102V4UB	3.1 m	1.2 m	813 mm	250 kcmil Stranded	No
ECRH102V4U	3.1 m	1.2 m	813 mm	250 kcmil Stranded	Yes
ECRH103Q4U	3.1 m	1.2 m	813 mm	500 kcmil Stranded	Yes
ECRH104L4U	3.1 m	1.2 m	813 mm	750 kcmil Stranded	Yes
ECRH101T5U	3.1 m	1.5 m	813 mm	#2 Solid	Yes
ECRH102Q6U	3.1 m	1.8 m	813 mm	4/0 Stranded	Yes
ECRH101T10U	3.1 m	3.1 m	813 mm	#2 Solid	Yes
ECRH101T15U	3.1 m	4.6 m	813 mm	#2 Solid	Yes
ECRH101T20U	3.1 m	6.1 m	813 mm	#2 Solid	Yes
ECRH121T4U	3.7 m	1.2 m	813 mm	#2 Solid	Yes
ECRH122Q4U	3.7 m	1.2 m	813 mm	4/0 Stranded	Yes
ECRH122V4U	3.7 m	1.2 m	813 mm	250 kcmil Stranded	Yes
ECRH122Q5U	3.7 m	1.5 m	813 mm	4/0 Stranded	Yes
ECRH121T6U	3.7 m	1.8 m	813 mm	#2 Solid	Yes
ECRHE151G4U	4.6 m	1.2 m	813 mm	#6 Solid	Yes
ECRHE152Q4U	4.6 m	1.2 m	813 mm	4/0 Stranded	Yes
ECRHE201T4U	6.1 m	1.2 m	813 mm	#2 Solid	Yes
ECRHE202G4U	6.1 m	1.2 m	813 mm	2/0 Stranded	Yes
ECRHE202Q4U	6.1 m	1.2 m	813 mm	4/0 Stranded	Yes
ECRHE201L5U	6.1 m	1.5 m	813 mm	#4 Stranded	Yes
ECRHE202C20U	6.1 m	6.1 m	813 mm	1/0 Stranded	Yes

Part Number	Electrode Length	Pigtail Length	Depth	Conductor Size	Kit
Installation: Horizontal with Pigtail Down					
ECRH081T4D	2.4 m	1.2 m	813 mm	#2 Solid	Yes
ECRH101T3D	3.1 m	0.9 m	813 mm	#2 Solid	Yes
ECRH101T4DB	3.1 m	1.2 m	813 mm	#2 Solid	No
ECRH101T4D	3.1 m	1.2 m	813 mm	#2 Solid	Yes
ECRH101V4D	3.1 m	1.2 m	813 mm	#2 Stranded	Yes
ECRH102C4D	3.1 m	1.2 m	813 mm	1/0 Stranded	Yes
ECRH102G4DB	3.1 m	1.2 m	813 mm	2/0 Stranded	No
ECRH102G4D	3.1 m	1.2 m	813 mm	2/0 Stranded	Yes
ECRH102Q4DB	3.1 m	1.2 m	813 mm	4/0 Stranded	No
ECRH102Q4D	3.1 m	1.2 m	813 mm	4/0 Stranded	Yes
ECRH102V4D	3.1 m	1.2 m	813 mm	250 kcmil Stranded	Yes
ECRH103Q4D	3.1 m	1.2 m	813 mm	500 kcmil Stranded	Yes
ECRH102G5D	3.1 m	1.5 m	813 mm	2/0 Stranded	Yes
ECRH102Q6DB	3.1 m	1.8 m	813 mm	4/0 Stranded	No
ECRH102G10D	3.1 m	3.1 m	813 mm	2/0 Stranded	Yes
ECRH102Q10D	3.1 m	3.1 m	813 mm	4/0 Stranded	Yes
ECRH122C4D	3.7 m	1.2 m	813 mm	1/0 Stranded	Yes
ECRH122G4D	3.7 m	1.2 m	813 mm	2/0 Stranded	Yes
ECRH122Q4DB	3.7 m	1.2 m	813 mm	4/0 Stranded	No
ECRH122Q4D	3.7 m	1.2 m	813 mm	4/0 Stranded	Yes
ECRHE152Q4D	4.6 m	1.2 m	813 mm	4/0 Stranded	Yes
ECRHE201T4D	6.1 m	1.2 m	813 mm	#2 Solid	Yes
ECRHE202G4D	6.1 m	1.2 m	813 mm	2/0 Stranded	Yes
ECRHE202Q4D	6.1 m	1.2 m	813 mm	4/0 Stranded	Yes
ECRHE203D4D	6.1 m	1.2 m	813 mm	350 kcmil Stranded	Yes
Installation: Vertical with Pigtail Up					
ECRV081T4U	2.4 m	1.2 m	-	#2 Solid	Yes
ECRV081V4U	2.4 m	1.2 m	-	#2 Stranded	Yes
ECRV082Q4UB	2.4 m	1.2 m	-	4/0 Stranded	No
ECRV082Q4U	2.4 m	1.2 m	-	4/0 Stranded	Yes
ECRV081T5U	2.4 m	1.5 m	-	#2 Solid	Yes
ECRV081T6U	2.4 m	1.8 m	-	#2 Solid	Yes
ECRV081T20U	2.4 m	6.1 m	-	#2 Solid	Yes
ECRV101T2U	3.1 m	0.6 m	-	#2 Solid	Yes
ECRV102Q3U	3.1 m	0.9 m	-	4/0 Stranded	Yes
ECRV101T4U	3.1 m	1.2 m	-	#2 Solid	Yes
ECRV101V4U	3.1 m	1.2 m	-	#2 Stranded	Yes
ECRV102C4UB	3.1 m	1.2 m	-	1/0 Stranded	No
ECRV102C4U	3.1 m	1.2 m	-	1/0 Stranded	Yes
ECRV102G4UB	3.1 m	1.2 m	-	2/0 Stranded	No
ECRV102G4U	3.1 m	1.2 m	-	2/0 Stranded	Yes
ECRV102L4U	3.1 m	1.2 m	-	3/0 Stranded	Yes
ECRV102Q4UB	3.1 m	1.2 m	-	4/0 Stranded	No
ECRV102Q4U	3.1 m	1.2 m	-	4/0 Stranded	Yes
ECRV102V4U	3.1 m	1.2 m	-	250 kcmil Stranded	Yes
ECRV103Q4U	3.1 m	1.2 m	-	500 kcmil Stranded	Yes
ECRV101T5U	3.1 m	1.5 m	-	#2 Solid	Yes
ECRV102Q5UB	3.1 m	1.5 m	-	4/0 Stranded	No

Part Number	Electrode Length	Pigtail Length	Depth	Conductor Size	Kit
ECRV102Q5U	3.1 m	1.5 m	-	4/0 Stranded	Yes
ECRV101T6U	3.1 m	1.8 m	-	#2 Solid	Yes
ECRV102G6U	3.1 m	1.8 m	-	2/0 Stranded	Yes
ECRV102Q6U	3.1 m	1.8 m	-	4/0 Stranded	Yes
ECRV102C8U	3.1 m	2.4 m	-	1/0 Stranded	Yes
ECRV102C10U	3.1 m	3.1 m	-	1/0 Stranded	Yes
ECRV102Q10UB	3.1 m	3.1 m	-	4/0 Stranded	No
ECRV102Q10U	3.1 m	3.1 m	-	4/0 Stranded	Yes
ECRV102C15U	3.1 m	4.6 m	-	1/0 Stranded	Yes
ECRV101T16U	3.1 m	4.9 m	-	#2 Solid	Yes
ECRV102Q20U	3.1 m	6.1 m	-	4/0 Stranded	Yes
ECRV121T4UB	3.7 m	1.2 m	-	#2 Solid	No
ECRV121T4U	3.7 m	1.2 m	-	#2 Solid	Yes
ECRV122C4U	3.7 m	1.2 m	-	1/0 Stranded	Yes
ECRV122Q4U	3.7 m	1.2 m	-	4/0 Stranded	Yes
ECRV122V4U	3.7 m	1.2 m	-	250 kcmil Stranded	Yes
ECRV123Q4U	3.7 m	1.2 m	-	500 kcmil Stranded	Yes
ECRV122G6UB	3.7 m	1.8 m	-	2/0 Stranded	No
ECRV122G10U	3.7 m	3.1 m	-	2/0 Stranded	Yes
ECRV122Q10U	3.7 m	3.1 m	-	4/0 Stranded	Yes
ECRE152Q4UB	4.6 m	1.2 m	-	4/0 Stranded	No
ECRE152Q4U	4.6 m	1.2 m	-	4/0 Stranded	Yes
ECRE153Q4U	4.6 m	1.2 m	-	500 kcmil Stranded	Yes
ECRE152Q6U	4.6 m	1.8 m	-	4/0 Stranded	Yes
ECRE152Q10UB	4.6 m	3.1 m	-	4/0 Stranded	No
ECRE152Q10U	4.6 m	3.1 m	-	4/0 Stranded	Yes
ECRE201T4UB	6.1 m	1.2 m	-	#2 Solid	No
ECRE201T4U	6.1 m	1.2 m	-	#2 Solid	Yes
ECRE201V4U	6.1 m	1.2 m	-	#2 Stranded	Yes
ECRE202G4U	6.1 m	1.2 m	-	2/0 Stranded	Yes
ECRE202Q4UB	6.1 m	1.2 m	-	4/0 Stranded	No
ECRE202Q4U	6.1 m	1.2 m	-	4/0 Stranded	Yes
ECRE203Q4U	6.1 m	1.2 m	-	500 kcmil Stranded	Yes
ECRE202V5U	6.1 m	1.5 m	-	250 kcmil Stranded	Yes
ECRE352L1UB	10.7 m	0.3 m	-	3/0 Stranded	No
ECRE402Q4UB	12.2 m	1.2 m	-	4/0 Stranded	No
ECRE402Q4U	12.2 m	1.2 m	-	4/0 Stranded	Yes
Installation: Vertical with Pigtail Down					
ECRV082Q4DB	2.4 m	1.2 m	-	4/0 Stranded	No
ECRV082Q4D	2.4 m	1.2 m	-	4/0 Stranded	Yes
ECRV102Q2D	3.1 m	0.6 m	-	4/0 Stranded	Yes
ECRV101L4D	3.1 m	1.2 m	-	#4 Stranded	Yes
ECRV101T4DB	3.1 m	1.2 m	-	#2 Solid	No
ECRV101T4D	3.1 m	1.2 m	-	#2 Solid	Yes
ECRV101V4D	3.1 m	1.2 m	-	#2 Stranded	Yes
ECRV102C4DB	3.1 m	1.2 m	-	1/0 Stranded	No
ECRV102C4D	3.1 m	1.2 m	-	1/0 Stranded	Yes
ECRV102G4D	3.1 m	1.2 m	-	2/0 Stranded	Yes
ECRV102L4D	3.1 m	1.2 m	-	3/0 Stranded	Yes

Part Number	Electrode Length	Pigtail Length	Depth	Conductor Size	Kit
ECRE102Q4DB	3.1 m	1.2 m	-	4/0 Stranded	No
ECRV102Q4DB	3.1 m	1.2 m	-	4/0 Stranded	No
ECRE102Q4D	3.1 m	1.2 m	-	4/0 Stranded	Yes
ECRV102Q4D	3.1 m	1.2 m	-	4/0 Stranded	Yes
ECRV102V4D	3.1 m	1.2 m	-	250 kcmil Stranded	Yes
ECRV103Q4D	3.1 m	1.2 m	-	500 kcmil Stranded	Yes
ECRV101T6D	3.1 m	1.8 m	-	#2 Solid	Yes
ECRV102C6D	3.1 m	1.8 m	-	1/0 Stranded	Yes
ECRV101V10D	3.1 m	3.1 m	-	#2 Stranded	Yes
ECRV103Q65D	3.1 m	19.8 m	-	500 kcmil Stranded	Yes
ECRV122G4D	3.7 m	1.2 m	-	2/0 Stranded	Yes
ECRV122L4D	3.7 m	1.2 m	-	3/0 Stranded	Yes
ECRV122Q4D	3.7 m	1.2 m	-	4/0 Stranded	Yes
ECRV122V4D	3.7 m	1.2 m	-	250 kcmil Stranded	Yes
ECRV123Q4D	3.7 m	1.2 m	-	500 kcmil Stranded	Yes
ECRE152Q4DB	4.6 m	1.2 m	-	4/0 Stranded	No
ECRE202C4DB	6.1 m	1.2 m	-	1/0 Stranded	No
ECRE202C4D	6.1 m	1.2 m	-	1/0 Stranded	Yes
ECRE202G4D	6.1 m	1.2 m	-	2/0 Stranded	Yes
ECRE202Q4DB	6.1 m	1.2 m	-	4/0 Stranded	No
ECRE202Q4D	6.1 m	1.2 m	-	4/0 Stranded	Yes
ECRE203Q4DB	6.1 m	1.2 m	-	500 kcmil Stranded	No
ECRE201T6DB	6.1 m	1.8 m	-	#2 Solid	No
ECRE202Q10D	6.1 m	3.1 m	-	4/0 Stranded	Yes
ECRE203Q10D	6.1 m	3.1 m	-	500 kcmil Stranded	Yes
ECRE202Q15D	6.1 m	4.6 m	-	4/0 Stranded	Yes
ECRE302Q4DB	9.1 m	1.2 m	-	4/0 Stranded	No
ECRE401T4D	12.2 m	1.2 m	-	#2 Solid	Yes
ECRE402G4D	12.2 m	1.2 m	-	2/0 Stranded	Yes
ECRE402Q4DB	12.2 m	1.2 m	-	4/0 Stranded	No
ECRE402Q4D	12.2 m	1.2 m	-	4/0 Stranded	Yes

Chemical ground rods can be ordered as individual components or as a complete kit. Kits include the chemical electrode (pre-filled with electrolytic salts), GEM, bentonite, and a high-density polyethylene inspection well.

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WARNING

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

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