

nVent ERICO Small Cell Grounding (5G)



CONNECT AND PROTECT



As operators look to increase their LTE/5G networks to meet the rising need of mobile broadband, the deployment of small cells is going to increase. An important step to consider is how to power and ground these small cells. The purpose of this local ground electrode at the small cell is to provide:

- ✓ Public safety
- ✓ A path for surge current dissipations from the power system
- ✓ Suitable AC and telecommunications equipment ground
- ✓ Low impedance ground for noise control
- ✓ Compliance to regulatory requirements
- ✓ Lightning protection ground in very high lightning zones

nVent ERICO offers a range of solutions for grounding and surge protection of power supply to small cells.

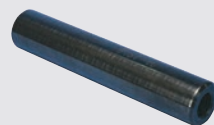
NVENT ERICO COPPER-BONDED GROUND ROD

nVent ERICO is the industry leading **copper-bonded ground rods** manufacturer (Proudly made in the USA*). We have the ground rod solution that you can depend on.

- Available in 3/8" to 1" diameter*
- 99.9% pure electrolytic copper coating - 10 mils minimum
- High carbon steel core and tip
- 80,000 psi minimum tensile strength
- IEEE® Std 80 rated for high-fault current capacity



nVent ERICO recommends the use of a driver sleeve (when using hammer or hammer drill) or ground rod driver to prevent deformations (mushrooming) of the top of the ground electrode.



Part Number: **B13716**
Ground Rod Driver Sleeve

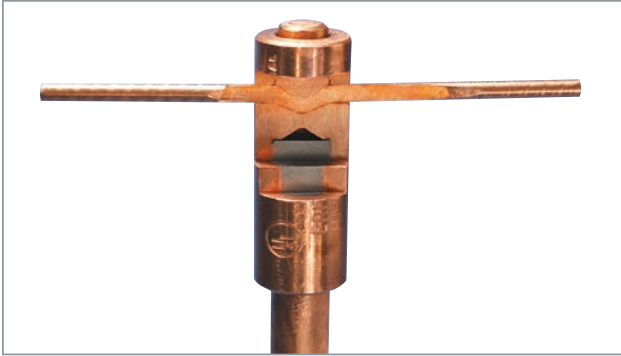


Part Number: **EGRD58**
Ground Rod Driver

NVENT ERICO HAMMERLOCK GROUND CLAMP – INSTALL WITH JUST A HAMMER

Features

- Irreversible connection with excellent mechanical strength
- Low resistance connection
- Provides a visual indication of completed connection
- Allows for “T” or pass-through connections

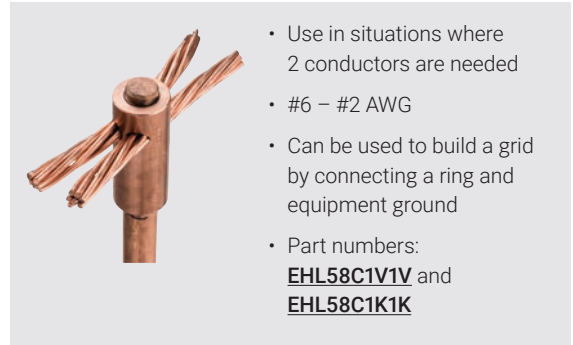


1 HOLE



- Conductor size from #6 solid/stranded to #2 solid
- Parts are UL 467 Listed
- Part numbers:
EHL58C1V and **EHL58C1K**

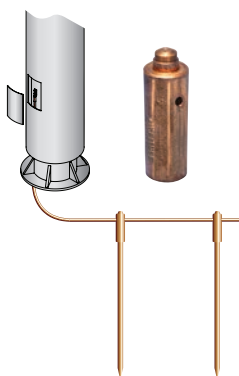
2 HOLE



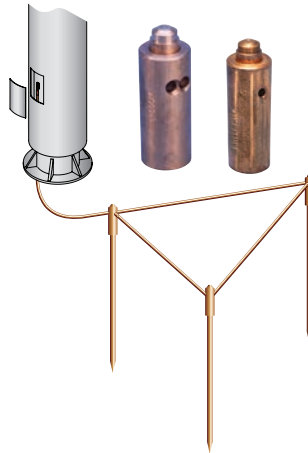
- Use in situations where 2 conductors are needed
- #6 – #2 AWG
- Can be used to build a grid by connecting a ring and equipment ground
- Part numbers:
EHL58C1V1V and **EHL58C1K1K**

NVENT ERICO HAMMERLOCK - METHOD OF GROUNDING

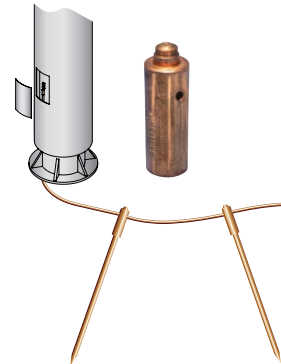
When rapid deployment is needed for a permanent ground connection at Small Cell site and Cadweld is not an option, the Hammerlock on either its 2 versions (1 Hole or 2 Holes) is the best ground clamp you can use.



Two Ground Rods in Line



Three Ground Rods in Triangle



Two Ground Rods Inverted V

NVENT ERICO CADWELD PLUS ONE SHOT AND CADWELD IMPULSE EXOTHERMIC WELDING CONTROL UNIT

Cadweld Plus One Shot produces permanent exothermic connections for cable-to-ground rod applications. These connections will not loosen, corrode or increase in resistance for the life of the installation. The convenient, single-use package makes the connection without a mold or starting material. Welds can be completed up to 15 ft away, using the nVent ERICO Cadweld Plus Impulse Exothermic Welding Control Unit, increasing installation flexibility in hard-to-reach areas. The refractory ceramic body on the Cadweld Plus One Shot is more durable than conventional ceramic and resists breaking.




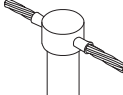
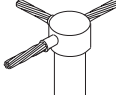
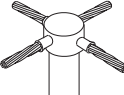
1. After preparing the ground rod and wire, position the Cadweld Plus One Shot and attach the lead to the control unit.



2. Ignite the Cadweld Plus One Shot with the control unit.



3. After one minute, break off the ceramic crucible. It can also be left in place, if desired.

Ground Rod	Concentric Conductor		Metric Cable Conductor Square mm	Cadweld Plus One Shot Part Number			
	Solid	Stranded		Type GR	Type GT	Type NT	Type NX
5/8" (14.2 mm)	6, 8	8	8-10	GR1161GPLUS	GT1161GPLUS	NT1161GPLUS	NX1161GPLUS
	3, 4	4, 6	14-22	GR1161LPLUS	GT1161LPLUS	NT1161LPLUS	NX1161LPLUS
	1, 2	2, 3	30-38	GR1161VPLUS	GT1161VPLUS	NT1161VPLUS	NX1161VPLUS
							



NVENT ERICO CADWELD PLUS IMPULSE

Our latest innovation in ignition systems brings you the highest level of flexibility and ease of use. Order the control unit separately, part number [PLUSCU2L6](#).

nVent ERICO has you covered from the ground, up. Learn more about our products and solutions at our [Grounding and Bonding Hub](#). Ready to specify nVent ERICO ground rods into your next project? [Contact your sales rep](#) for a quote and next steps.



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER