

# CP34

## Ground Rod Clamp

Ground rod installers must refer to and follow all pertinent national and local laws, standards, codes and regulations.

NFPA 70®, the National Electrical Code® (*Articles 250.52 & 53 specifically*), covers aspects of grounding, grounding electrodes, and their installation.

- Ground Rod Clamp CP34 is suitable for use with plain (*unthreaded*) and sectional (*threaded*) ground rods
- CP34 is UL® 467 listed and suitable for direct burial in earth or concrete

### Typical Installation Method:

**1)** Ground Rods are selected and driven into the earth using a hammer or other manual/powerful ground rod drive tool. The rod is driven to the depth required by codes/standard as specified by the engineer/designer. Use of a Drive Sleeve is recommended to prevent damage to the end of the rod. Use of a Drive Stud and Threaded Coupler will be required for threaded rods.

| Nominal Rod Diameter<br>(in) | ERICO Part Number                    |                  |
|------------------------------|--------------------------------------|------------------|
|                              | Drive Stud                           | Threaded Coupler |
| 1/2 (full)                   | DS12S                                | CR12S            |
| 5/8                          | DS58                                 | CR58             |
| 3/4                          | DS34                                 | CR34             |
| 1                            | DS1                                  | CR100            |
| Rod Diameter                 | ERICO Drive Sleeves for Pointed Rods |                  |
| 1/2 Inch Nominal and Full    | B13714                               |                  |
| 5/8 Inch Nominal (0.563)     | B13716                               |                  |
| 5/8 Inch Full (0.625)        | B13731                               |                  |
| 3/4 Inch Nominal (0.682)     | B13718                               |                  |
| 3/4 Inch Full (0.750)        | B13733                               |                  |
| 1 Inch Nominal (0.914)       | B13722                               |                  |
| 1 Inch Full (1.000)          | B13737                               |                  |



**Threaded Coupler**



**Drive Stud**



**Drive Sleeve**

#### WARNING:

1. nVent products shall be installed and used only as indicated in nVent product instruction sheets and training materials. Instruction sheets are available at [www.nVent.com](http://www.nVent.com) and from your nVent customer service representative.
2. nVent products must never be used for a purpose other than the purpose for which they were designed or in a manner that exceeds specified load ratings.
3. All instructions must be completely followed to ensure proper and safe installation and performance.
4. 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/or death, and void your warranty.

#### SAFETY INSTRUCTIONS:

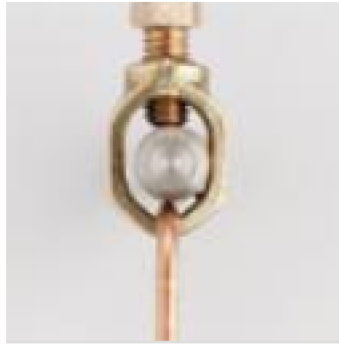
All governing codes and regulations and those required by the job site must be observed. Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.

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NFPA 70® and National Electrical Code (NEC®) are registered trademarks of National Fire Protection Association.

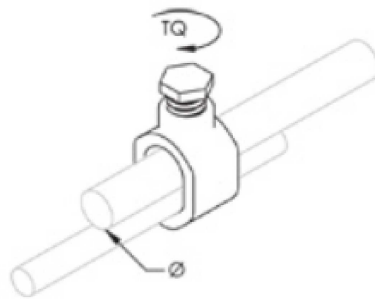
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- 2) a) The CP34 Ground Rod Clamp is suitable for use with  $\frac{1}{2}$ " through  $\frac{3}{4}$ " nominal diameter copper bonded ground rods. Ground rod actual diameters ( $\varnothing$ ) to be 0.50" - 0.68". The CP34 slips over the end of the rod onto the rod body.
- b) The grounding conductor #10 Solid - 1/0 Stranded ( $6\text{ mm}^2$  Solid -  $50\text{ mm}^2$  Stranded) is inserted into the CP34 clamp body on the side opposite the bolt. (See Fig.1)
- Note:** The conductor should extend out of the CP34 body 2"-3" (50.8 - 76.2mm)



**Figure 1**

The hex head of the bolt used with CP34 is 0.500/0.489 inches with 3/8-16 UNC 2A thread. The bolt is tightened to a torque (TQ) of 300 in-lb. Max (33.9 Nm). (See Figure 2)



**Figure 2**