



Uh, oh!  
It's time  
for a change!

## Galvan Couplings Cure Separation Anxiety

**Guaranteed.** If you are having problems with threadless couplings separating from copper-coated ground rods, your first step should be to measure the diameter of the rods. If they are in spec (0.555 to 0.565 inches for a 5/8-inch rod), the problem is the coupling. Galvan's threadless couplings for copper-coated rods will securely connect any manufacturers' ground rods that are made to **ANSI Approved/NEMA GR-1 specs for rod diameter.** (See table on next page.) That's because our couplings are built to spec, too. We guarantee they'll resist a pullout force of no less than 1500 pounds on any rod built to GR-1 standards. They'll pass impact and bend tests, too. Buy Galvan threadless couplings and put worries about ground rod separation to bed.



Galvan Industries, Inc.  
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# Galvan Threadless Couplings for Copper-Coated Rods

Galvan couplings are made to fit the full range of NEMA GR-1 specified rod diameters.



Catalog Number	Rod Size	Specified GR-1 Rod Diameter Range (in.)	Pcs. Per Ctn.	Wt. Per 100	NAED UPC No. 632591-
50-TC*	1/2"	0.500-0.510	25	22	61344-6
60-TC**	5/8"	0.555-0.565	25	25	70724-4
70-TC*	3/4"	0.673-0.683	10	40	61223-4
GRC-100CP***	1"	0.907-0.917	10	90	61498-6

**Notes:** Refer to our catalog, available online, for the appropriate coupling for each Galvan ground rod by part number.

\* UL Listed/For use in the USA and Canada with listed copper-coated rods only.

\*\* UL and RUS Listed/For use with UL Listed copper-coated rods only.

\*\*\* This item copper-plated steel.



## Galvan threadless couplings hold tight when lesser couplings let go.

In the vast majority of coupled rod failures, the problem is not the rod, but couplings that do not meet the ANSI Approved NEMA GR-1 specification. Some manufacturers use a cheaper process called "cold heading" to produce threadless couplings, instead of foundry casting. Cold headed couplings look good, but often do not have the range of tolerances required by GR-1 and cannot meet the standards for pullout, impact or bend testing. Galvan's cast couplings meet the standards.

### Our specifications include the following stringent testing requirements.

- **Impact:** Two 18-inch rod samples shall be coupled and held vertically in a tubular fixture that is at least 0.010 inch greater than the rod diameter. The penetrating end of the bottom ground rod shall be rested on a fixed plate of a weight sufficient to withstand the impact test, and located in a hole at least 4 inches in depth. The coupling shall not rest on or be contained within the tubular fixture or fixture plate. The top ground rod shall be subjected to an impact force of 40 foot-pounds. After 25 impacts, the couplings shall not break, split, or be subjected to damage that impairs performance.
- **Pullout:** The joined coupling/rod assembly must withstand a pullout force of no less than 1500 pounds before separation.
- **Bend:** The coupling/rod assembly shall be subjected to the same bending requirements as an individual ground rod. The test specimen shall be gripped in a suitable rigid clamp or vise, and the ground rod bent by applying a force normal to the ground rod, at a distance of 40 times the rod diameter from the clamping device. The coupling shall be located midway between the clamping device and the point of applied force. The force shall be applied until the ground rod is permanently bent through an angle of 30 degrees. The coupling shall exhibit no sign of cracking or separation from the rod electrode.

Galvan threadless couplings will pass these tests with any manufacturers' ground rods made to NEMA GR-1 standards. For more information or to place an order, contact Galvan or your local Galvan distributor.



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