



### PRO-TRACE 1.5# Magnesium Grounding Anode

Grounding anodes should be installed at all dead ends of the tracer wire system to complete the electrical circuit needed to enhance signal for locating purposes. All dead ends need to be grounded for locating purposes regardless of the tracer wire spec installed. All dead ends not brought to surface will be connected to an anode (or grounding device). When splicing the lead wire to dead end of your tracer wire use the PRO-TRACE #TLC-20 wire nut included with your anode to keep corrosion out.

### Placement & Arrangement of Grounding Anode

The arrangement of the anodes are then planned to provide an even distribution of current over the whole structure. Separate grounds are required to prevent the tracer wire from being looped.

### Incorporating Anode into Existing Tracer Wire Systems

This grounding anode may be spliced into existing tracer wire systems to improve signal and ability to locate. Refer to placement and arrangement section above.

### Application Notes

Anodes on transmission or gathering pipe systems are easier to design than on a distribution system as there are far fewer 'TeEs' and branched pipes. Disconnect the anode if applying the signal at a position where one is connected. The disconnected anode makes a very good ground connection for the second lead of the transmitter than the stakes that come with pipe and cable locator units.

### Cathodic Protection of Tracer Wire

Magnesium grounding anodes naturally aid in prolonging the life of your tracer wire system since anodes are "sacrificial" to prevent corrosion. In directional drilling installations, it is common for tracer wire to experience abrasion to the jacket which can sometimes expose the wire under the jacket. When this happens, the anode kicks in to sacrifice itself over time to prevent corrosion to the exposed tracer wire conductor.



### PRO-TRACE 1.5# MAGNESIUM GROUNDING ANODE [12 AWG]

For Tracer Wire Systems

PART #: PTANODE12

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	CAD GENERATED DRAWING. DO NOT MANUALLY UPDATE	
		NOT CRITICAL	APPROVALS	DATE
			DRAWN	L. H. 11/08/10
			CHECKED	R. G. 11/11/10
NEXT ASSY	USED ON	MATERIAL --	RESP ENG	
		FINISH --	MFG ENG	
APPLICATION		DO NOT SCALE DRAWING		
			QUAL ENG	

REV.	5	REV. Date.:	10/25/17
SIZE	A	DWG. NO.	PTANODE14
SCALE		CAD FILE:	PTANODE14
		SHEET	1 OF 1