

CerAnode A/C Linear Grounding System

The CerAnode A/C Linear Grounding System is designed to provide optimized current distribution for pipeline grounding applications by creating a preferred low resistance path to ground for A/C voltage instead of using the pipeline which will increase corrosion rates. CerAnode has a history of manufacturing QUALITY into its products. From the materials used to the connection design, close attention is given to the construction detail of each grounding product produced. CerAnode's A/C Linear Grounding system used in conjunction with good installation practices combine to make an efficient and effective grounding system.

The CerAnode A/C Linear Grounding System provides flexibility to the design engineer. Since CerAnode assembles and builds all the key components, the product specification can easily be customized to your particular application. Parameters such as conductor diameter, length, cable size and insulation type can be specified and manufactured quickly.

The type of materials selected to manufacture the grounding assembly have withstood the test of time to assure a high level of product confidence. The header cable is standard HMWPE (High Molecular Weight Polyethylene) or Fluoro (fluoropolymer) HMWPE cathodic protection cable as specified. These cables have been recognized as standard in the CP industry for many years.

FACTORY IN-HOUSE JACKET – ACL-CS (A/C Linear Grounding System in Coke Sock)

The CerAnode A/C Linear Grounding System is purchased prepackaged in a porous sock with Loresco® PowerFill™ Carbon Backfill. The copper conductor core is firmly positioned in the sock to protect the structure for many decades.

CerAnode's sock material is natural cotton which when filled with moisture is 100% invisible to the anode. All materials employed are GREEN in that they are environmentally safe, being inert, benign or biodegradable. The grounding sock decomposes leaving a conductive horizontal column at the position where it was buried allowing currents to pass freely to the soil.

The A/C Linear Grounding sock is manufactured with outer reinforced braiding giving added tensile strength and protection against abrasion and is clearly color identified.

Competitor's materials are synthetic which does not absorb moisture and can only conduct thru the pores of the fabric, in comparison to the naturally absorbent cotton. The purpose of the cotton sock is to get the anode system into the ground, after which it disappears and is totally invisible to allow current to efficiently pass to the ground. We believe this to be a superior material to contain the grounding system.



Figure 1 – ACL-CS showing braiding

EASY INSTALLATION

For Trenching Applications – Using standard trenching equipment, a 4-6 inch (10-15 cm) wide trench is prepared several diameters away from the pipe or as designed, on the pipe center line. The A/C Linear Grounding Assembly is then unrolled into the trench. At this point, 4-6 inch (10-15 cm) of the native earth is placed over the sock and the lead wires are now routed to the junction box. Finally, the remaining native earth is returned to the trench.

Alternatively, additional coke can be placed into the trench and the linear grounding assembly laid on top, followed by more coke. At this point, 4-6 inch (10-15 cm) of the native earth is placed over the sock and the lead wires are now routed to the junction box. Finally, the remaining native earth is returned to the trench.

For Directional Boring Applications - The main design consideration for directional boring is the cable tensile strength. The cable should be sized to accommodate the product weight and the environment the grounding system is being pulled through. Care should be taken to avoid putting excessive strain on the cable leads to prevent stretching and breakage.

Sufficient water is to be used during installation so that less resistance occurs when being pulling through the earth.

As with any configuration, the linear grounding system is not suitable for pulling through rocky terrain. Pulling through perforated pipe is suggested. An alternative method for rocky environments is pulling a temporary pipe into the bore with the linear grounding system inside, and then removing the temporary pipe, leaving the linear grounding system in place.

An ISO 9001:2015 Registered Company

Eagle Registrations Inc
Reg No. 5684

APS-Materials, Inc. and The CerAnode Division is ISO 9001:2015 Registered, which assures the industrial community that our products are engineered and manufactured under a world standard International Quality System.

STORAGE

Must be kept in a Dry Condition, out of the weather elements and under cover.

CerAnode 7 Year Anode Warranty

"CerAnode Technologies of APS-Materials, Inc., will give you a new grounding system if our grounding system should stop functioning within 7 years when installed professionally and operated according to the grounding specifications and/or instructions."

(The above replacement policy does not include the costs associated with recovery of questionable materials, damage to the client's facility or the installation cost of the CerAnode supplied replacement materials. Does not cover Acts of God.)

All CerAnode products other than anodes are covered under a 1-year warranty. *CerAnode of APS-Materials, Inc. is a Manufacturer and Seller and is hereto referred to as Seller. No warranty of merchantability or other warranty, expressed or implied, is made by Seller except that the seller warrants the goods to be free of defects in workmanship. All information and suggestions appearing in this document or any of the Seller's product literature, quotations or product descriptions is believed to be reliable. However, it is the user's responsibility to determine the suitability of the products for his own use. Since the actual use by others is beyond the Seller's control, no guarantee, expressed or implied other than the initial paragraph above, is made by Seller to the effects of such use or the results to be obtained, nor does Seller assume any liability arising out of use of the products by others. Nor is the information in Seller's quotations or product descriptions to be construed as absolutely complete as additional information may be necessary or desirable when particular or exceptional conditions/circumstances exist or because of applicable laws or government regulations. Seller will not be liable for any action or result, claim or loss from same when goods manufactured by the Seller are made in accordance with specifications, drawings or samples supplied by the Buyer. Nothing contained in Seller's quotations or product descriptions is to be construed as permission or as a recommendation to infringe any patent. Since Seller's goods are generic in nature and can be used for many different applications and actual use by others are beyond Sellers control, the Seller will not be liable for any action or result, claim or loss when goods are used for applications where patents may be in effect.*

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