

# The MITIGATOR®

Engineered AC Mitigation System



Visit our website to read the independent report of tests demonstrating the MITIGATOR's performance vs. bare copper and zinc ribbon anode.

The MITIGATOR is the industry's only engineered mitigation system to combat the corrosive effects of alternating current (AC) on pipelines, combining performance with greater ease of installation and lower cost. The MITIGATOR provides superior performance over bare copper and zinc for AC grounding and mitigation. Based on MATCOR's SPL™-Anode manufacturing technology, the MITIGATOR is a packaged grounding system that combines the best of copper grounding with low resistance, corrosion-inhibiting backfill.

### PRODUCT DETAILS

The MITIGATOR utilizes a multi-strand copper cable, encased in low resistance backfill with corrosion inhibitors, and then encased in a tough fabric sleeve wrapped with MATCOR braiding for greater strength. The MITIGATOR is provided in standard 500 and 1,000 ft. lengths.

See the specification chart for additional information.



### BENEFITS

- Complete, low electrical resistance package; ready to install
- 433% more surface area than bare 2/0 copper
- Performs better than bare copper: report available
- 19 stranding for better flexibility
- Better conductor than zinc; will not passivate
- Corrosion inhibitors for increased life of system
- Excellent earth contact
- Easy to splice
- Machine made in MATCOR's USA manufacturing facility, ISO 9001:2015 certified

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## COMPONENTS

The MITIGATOR is a ready to install AC mitigation product that includes:

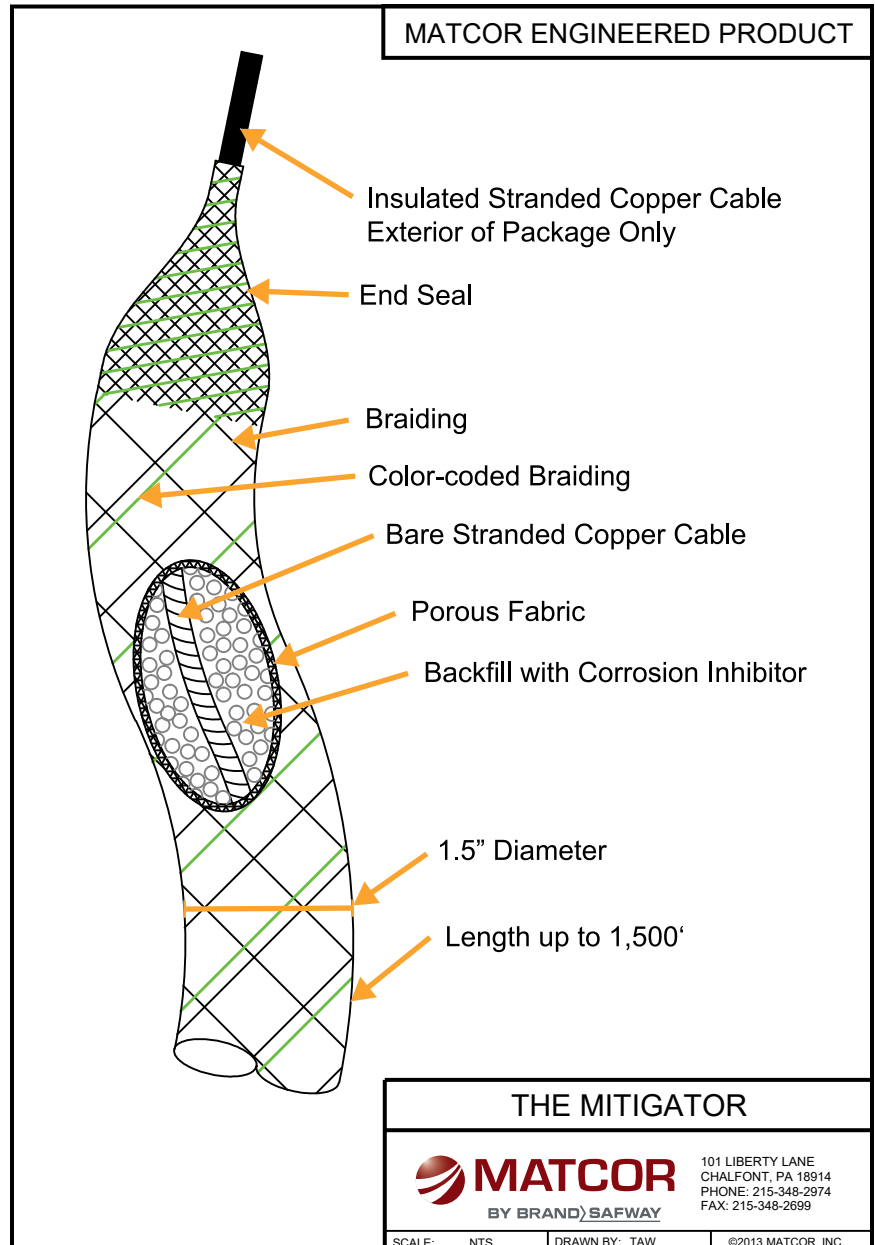
- Continuous stranded copper conductor for the length ordered
- Low resistance, machine compacted backfill with copper corrosion inhibitors
- Durable, non-degrading fabric wrap
- Color-coded outer braiding for easy identification of the MITIGATOR grounding system
- Shipped on a reel for easy installation

## DESIGN

The MITIGATOR can be easily customized for your continuous grounding system requirements. For most applications, standard AWG No. 2 internal copper cable is sufficient. When packaged in MATCOR's backfill and housing, cable performance is greatly enhanced.



Contact MATCOR engineering for additional help or for total project design. If the previous use has been zinc ribbon, see the specification chart for MITIGATOR replacement sizes.



**CONTACT A CORROSION EXPERT**

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### INSTALLATION

The MITIGATOR can be installed several ways, including horizontal directional drilling (HDD), cable plow and trenching. This is a tough product that can be buried directly in the soil without additional special backfill. When installing the MITIGATOR via HDD, MATCOR recommends using the AWG No. 1/0 continuous copper cable for greater strength.

### SPECIFYING AND ORDERING

Simply specify the length and internal copper cable size when you order the MATCOR MITIGATOR.

Also available from MATCOR are solid-state decouplers, connecting cables, junction boxes, reference electrodes and test stations.

MATCOR engineering is ready to assist with your design and product selections.

### SPECIFICATIONS

<b>Diameter</b>	1.5 inches (38.1 mm)
<b>Weight</b>	1.1 lbs/linear foot(0.50 kg)
<b>Internal Copper Conductor Continuous copper cable</b>	AWG No. 2 <i>Replaces Plus Zinc ribbon</i> AWG No. 1/0 <i>Replaces Super Zinc ribbon</i> AWG No. 6 <i>Replaces standard zinc ribbon</i>
<b>Standard Reel Sizes</b>	500 & 1,000 feet (152.4 M & 304.8 M)
<b>Resistance to earth of 500 ft. segment</b>	0.10 ohms/1,000 ohm-cm soil
<b>Outer fabric wrap</b>	Sealed, porous, non-degrading acid reducing fabric
<b>Heavy Duty Braiding</b>	Machine applied assures compact & durable product, color coded for easy identification
<b>Backfill</b>	Special backfill with copper corrosion inhibitors for long life



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