



AC MITIGATION RIBBON

(Gypsum Mix Backfill)



CELEBRATED ENTERPRISE IN CATHODIC PROTECTION

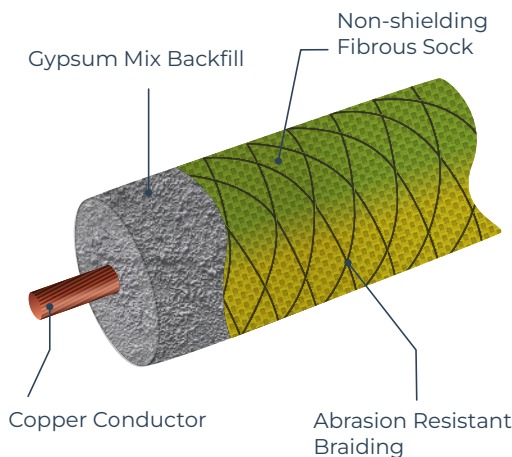


AC MITIGATION RIBBON (GYPSUM MIX BACKFILL)

DATA SHEET

Pipeline corrosion, caused by induced AC current, is attributed to high voltage AC power lines in close proximity to a pipeline system. The corrosion can be extremely aggressive, far exceeding the normal corrosion rate caused by corrosive soils. One of the most popular mitigation solutions is a linear grounding system that is installed in parallel to the pipeline.

Compared with bare copper and zinc ribbon, this long-line "cable" is a superior grounding material that provides an effective electrical path to remove or discharge AC current from the pipeline to the ground. It is comprised of a bare stranded copper conductor encased in low resistance backfill, and then wrapped in a synthetic sock.



■ High-grade Substrate Material

We use the high quality copper conductor to ensure excellent electrical conductivity.

■ Gypsum Mix Grounding Backfill

To achieve the superior performance and low earth contact resistance, our backfill is a compound of naturally occurring, environmentally friendly material, based upon a blend of hydrated gypsum, bentonite and mineral natron. The grounding is enhanced with the Jennings proprietary hydrous phyllosilicate mineral boosting agent.



■ Braid Fabric Jacket

The fabric housing is braided using a high tensile strength heavy duty compact braid assuring product integrity.

Technical Measurement	Performance
Weight	80 g/m ²
Bursting Strength	500N Min. per ISO 3303
Abrasion Resistance	100 Cycles to Failure per ASTM D-4157
Fluid Resistance	PASS, 6-month Immersion Test
Chlorine Resistance	PASS, 6-month Immersion Test
UV Resistance	55% Tear Strength Loss per ASTM G-53: 8 hrs @60°C (140°F) 4 hrs condensation @50 °C (122°F)

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APPLICATIONS

This AC mitigation ribbon can be installed in several ways, including horizontal directional drilling, cable plow and trenching. It is a tough product that can be buried directly in all kind of soil, especially well suited the environment where the resistivity is high or various, and where there are risks for interference with secondary structures.

Our AC mitigation ribbon is commonly applied to pipeline grounding systems or structure that are subject to AC interference.

- Prevent voltage spikes during fault conditions
- Reduce AC-induced corrosion
- Maintain AC step and touch potentials to protect personnel from shock hazards



SPECIFICATION

Item No.	Cable Conductor	Sock Diameter	Length	Weight	Design Life
JA-CU-AWG1-GB	#1/0 AWG (1 or 19 strands)	Φ1.5" (Φ38 mm)	500/1000/1500 ft. (152/305/457 m)	1.3 lbs/ft. (1.8 kg/m)	25 yrs.
JA-CU-AWG2-GB	#2 AWG (1 or 19 strands)	Φ1.5" (Φ38 mm)	500/1000/1500 ft. (152/305/457 m)	1.1 lbs/ft. (1.6 kg/m)	25 yrs.
JA-CU-AWG6-GB	#6 AWG (1 or 19 strands)	Φ1.5" (Φ38 mm)	500/1000/1500 ft. (152/305/457 m)	1.0 lbs/ft. (1.5 kg/m)	25 yrs.

Notes: All dimensions and weights are nominal. The parameter provided is subject to variation in material compositions and Jennings Anodes foundry tolerance.

PACKAGING INFORMATION

Our AC mitigation anode is normally packed on lightweight wooden reel to ensure easy transportation and handling in the field. Steel reel can be supplied as required.

Item No.	Reel Length	Reel Dimensions (Dia. x D)	Weight		Reel Qty	
			N.W.	G.W.	20ft. container	40ft. container
JA-CU-AWG1-GB	1000 ft. (305 m)	Φ42" x 40" (Φ1067 x 1016 mm)	1300 lbs (589 kg)	1505 lbs (683 kg)	24	48
JA-CU-AWG2-GB	1000 ft. (305 m)	Φ42" x 40" (Φ1067 x 1016 mm)	1100 lbs (499 kg)	1390 lbs (630 kg)	24	48
JA-CU-AWG6-GB	1000 ft. (305 m)	Φ42" x 40" (Φ1067 x 1016 mm)	1000 lbs (454 kg)	1260 lbs (708 kg)	24	48

Remarks: Our standard reel length is 1000 ft(305m). Custom reel length is available upon request.



Worldwide Service Network

Our worldwide network of sales and service centers can provide immediate advice and assistance on the complete range of products.

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