



## POLYMER FLEXIBLE ANODES (MADE IN USA)



CELEBRATED ENTERPRISE IN CATHODIC PROTECTION

**J**  
JENNINGS ANODES

# POLYMER FLEXIBLE ANODES

## DATA SHEET

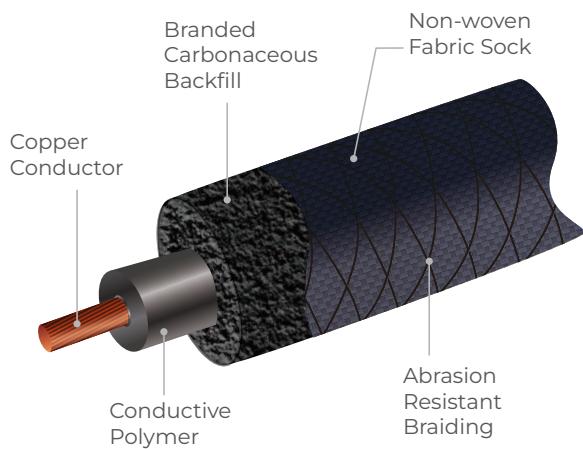


This continuous cable-like anode is an integrated auxiliary anode composed of a copper wire and a conductive polymer sheath. The copper core serves as a low resistance bus bar to deliver the required current over considerable distance without incurring substantial longitudinal voltage drop. And the extruded polymer layer seals the copper wire from chemical attack.

Prepackaged in a porous, non-woven fabric "sock" that contains high conductivity calcined petroleum coke breeze, it enhances the abrasion and damage resistance.

## FEATURES

- Uniform distribution of cathodic protection current over long distances
- Minimal interference to other metal structures
- Solve the shielding problem of complex pipe network Even if the pipeline coating is seriously damaged or the tank bottom is bare, the uniform distribution of current can be guaranteed to achieve cathodic protection
- Easy field installing and splicing
- Long service life



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## APPLICATIONS

Our polymer flexible anode can be easily field cut to appropriate lengths and be installed by laying it in a hand- or machine-dug trench or cable plowing. It is generally located in close proximity to the structure to be protected, and provides uniform cathodic protection current to the entire structure. It is ideal for use 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.

- External surface of buried transmission pipelines
- External bottom of aboveground tanks



## ELECTROCHEMICAL PROPERTIES

Technical Measurement	Performance
Copper Conductor Resistance	0.0015 Ω/m per ASTM B-193
Polymer Volume Resistivity	1.5 Ω.cm per ASTM B-193)
Coke Breeze Resistivity	0.4 Ω.cm per G.L.C.-C-12A @23°C (73°F) , 10 bar (145psi)
Bend Radius	5.9" (150mm)
Operation Temperaturre	-18°C (0°F) min.

## FABRIC JACKET PHYSICAL PROPERTIES

Technical Measurement	Performance
Weight	80 g/m <sup>2</sup>
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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## SPECIFICATION

Item No.	Cable Conductor	Polymer Extrusion	Sock Diameter	Length	Current Output	Design Life
JA-PFLA100-S	#6 AWG (13 mm <sup>2</sup> )	Φ0.51" (Φ13 mm)	Φ1.5" (Φ38 mm)	500 ft. (152 m)	15.8 mA/ft. (52 mA/m)	25 yrs.
JA-PFLA100-M	#6 AWG (13 mm <sup>2</sup> )	Φ0.51" (Φ13 mm)	Φ1.5" (Φ38 mm)	1000 ft. (305 m)	15.8 mA/ft. (52 mA/m)	25 yrs.
JA-PFLA100-L	#6 AWG (13 mm <sup>2</sup> )	Φ0.51" (Φ13 mm)	Φ1.5" (Φ38 mm)	1500 ft. (457 m)	15.8 mA/ft. (52 mA/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 polymer flexible anode is normally packed on wooden reel to ensure easy transportation and handling in the field. Steel reel can be supplied as required.

Item No.	Anode Length ( per reel)	Reel Dimensions (Dia. x D)	Weight		Reel Qty	
			N.W.	G.W.	20ft. container	40ft. container
JA-PFLA100-S	500 ft. (152 m)	Φ36" x 30" (Φ914 x 812 mm)	473 lbs (215 kg)	540 lbs (245 kg)	24	48
JA-PFLA100-M	1000 ft. (305 m)	Φ42" x 40" (Φ1067 x 1016 mm)	947 lbs (430 kg)	1036 lbs (470 kg)	/	/
JA-PFLA100-L	1500 ft. (457 m)	Φ46" x 41" (Φ1168 x 1041 mm)	1421 lbs (645 kg)	1543 lbs (700 kg)	/	/

**Remarks:** Custom packing 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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