

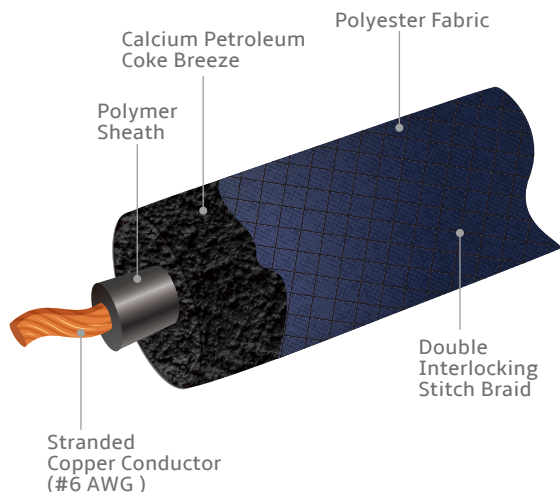


POLYMER FLEXIBLE ANODES

PRODUCT DATA SHEET

Polymer Flexible Anodes

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.



Quality Copper Conductor

Our power cable delivers the required current over considerable distance without incurring substantial longitudinal voltage drop. The choice of the cable can be made from HMWPE, XLPE/PVC, Kynar/HMWPE or as per specification.

Evenly Backfill Filling

High performance calcined petroleum coke breeze is tightly pre-packaged and evenly distributed all around the anode, serving as the active matrix in which the electrochemical reactions take place.

- Carbon Content: 98.5% Min.
- Ash: 0.6%
- Moisture: 0.05%
- Volatiles: Nil(950°C)
- Resistivity: 0.1 $\Omega \cdot \text{cm}$ [per G.L.C.-C-12A, 10 bar (145psi) @23°C (73°F)]

Reel Packing

Our polymer linear anode can be packed on wooden or steel reel as required. It is normally installed right from the factory provided reel into the trench for easy transportation.



Acid-resistant Braid Fabric Jacket

The anode is prepackaged with porous, non-woven synthetic sleeve. This tough sleeve is sewn using a poly two or four-thread double interlocking stitch, which prevents the seam from separating during installation, or when stored in high temperature conditions.

- Bursting Strength: 500 N [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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PRACTICAL APPLICATION

The anode 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.



SPECIFICATIONS

Item No.	Polymer Extrusion	Cable Conductor	Sock Diameter	Reel Length	Current Output	Lifetime
YX-POL-FLA100-S	Φ 13mm(Φ 0.51")	#6 AWG (HMWPE)	Φ 38mm (Φ 1.5")	152m (500 ft.)	52mA/m (15.8mA/ft.)	25 yrs.
YX-POL-FLA100-M	Φ 13mm(Φ 0.51")	#6 AWG (HMWPE)	Φ 38mm (Φ 1.5")	305m (1000 ft.)	52mA/m (15.8mA/ft.)	25 yrs.
YX-POL-FLA100-L	Φ 13mm(Φ 0.51")	#6 AWG (HMWPE)	Φ 38mm (Φ 1.5")	457m (1500 ft.)	52mA/m (15.8mA/ft.)	25 yrs.





Industrial Corrosion Control Solutions Provider

Established in 2003, YUXI has over a 20-year heritage of innovation in corrosion control science and technology. We're a spirited team of ambitious thinkers and pioneer sheeps with a common goal in mind: protect our clients' assets from corrosion with cost-saving measures.

We have the most comprehensive catalog of cathodic protection materials including anodes, transformer rectifiers, backfills, coatings, etc. Our anodes and supplies are manufactured to strict quality standards through an ISO 9001 quality management system and are guaranteed to offer excellent performance in the industry.



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