

CORRFLEX®

Flexible linear anode system



Rugged and easy to install

Corrpro's CorrFlex® anode system brings together the lightweight and high performance characteristics of copper-cored, mixed metal oxide anodes with the rugged, field-tested worthiness of a fabric jacket filled with powdered, calcined petroleum coke. CorrFlex® is factory assembled to the highest quality standards that only Corrpro-certified products can claim.

Corrpro offers a full line of CorrFlex® anode systems that can be custom designed to suit virtually any linear application. CorrFlex® utilizes copper-cored titanium anode wire with mixed metal oxide coating, enhancing conductivity of the anode element. Because the mixed metal oxide anode is surrounded by high carbon content powder backfill, the CorrFlex® anode system can be installed without the need for additional coke backfill. Connections to continuous insulated conductor are made redundantly every 50 feet, further ensuring a minimum voltage drop down the entire anode length. CorrFlex® systems come standard with 40 feet (12.2m) of insulated conductor "pigtailed" at each end to allow for bi-directional power feeds.

The proprietary CorrFlex® manufacturing process assures that the anode assembly is centered in the carbon backfill. The outer jacket of the CorrFlex® package is chlorine/low pH resistant porous fabric that is covered with a protective cross braid for superior abrasion and damage resistance.

CorrFlex® comes in standard 1,640-foot (500m) lengths. Custom lengths can also be made to order. The continuous standard cable is #8 AWG, seven-strand copper cable with chlorine resistant HALAR insulation. The overall nominal diameter of the CorrFlex® system is 1-3/8 inches (35mm).

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Typical Applications

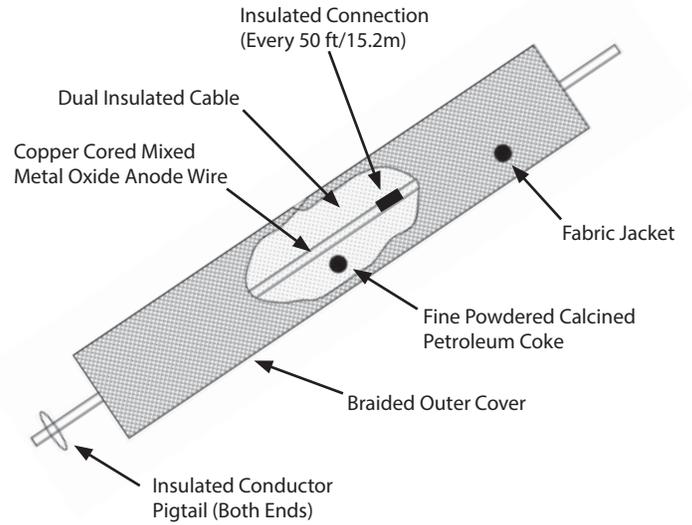
CorrFlex® anode systems perform well in virtually any environment. The anodes can be installed as an integral part of a cathodic protection system for such structures as above-ground storage tanks, pipelines, congested petrochemical facilities and power plants. Trench, hand-digging, placement above sand or gravel backfill, cable plow and directional boring/pulling can be used to install CorrFlex®.

Ordering Procedures

CorrFlex® anode systems are available in various standard output designs, or can be customized to your particular requirements. To order, indicate the CorrFlex® model you desire, length per spool and number of spools required. An example is provided to illustrate the process.

Ordering Procedure Example	
Item	Example
Quantity	2 spools
Anode material	CorrFlex®
Anode type	CFlex-002
Standard system length	1,640 feet (500m)
Conductor size	#8 AWG
Conductor insulation	HALAR
Front "pigtail" length	40 feet (12.2m)
End "pigtail" length	40 feet (12.2m)

Product Data	
Package diameter	1-3/8 in (35mm) nominal
Anode assembly weight	0.74 lb/ft (1.0 kg/m)
Minimum bending radius	19.7 in (500mm)
Fabric jacket	
Abrasion resistance (ASTM D-4157)	219 cycles to failure
Chlorine resistance (internal immersion)	6 mos. - passed
UV resistance (ASTM G-53)	55% tear strength loss



CorrFlex® Maximum Current Output vs. Design Life

Anode Type	Design Life (Years) (milliamperes per lineal foot)				
	10	15	20	25	30
CFLEX-001	155	120	105	90	85
CFLEX-002	305	245	210	185	170

Shipping Weight of all CorrFlex® Products

Approx. 0.84 lb/ft (1.25 kg/m) assuming 1,640' spool/pallet



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866.CORRPRO United States
 800.661.8390 Canada
 44.1642.614106 Europe
 966.3.802.7009 Middle East

www.corrpro.com