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**CATHODIC PROTECTION CABLE**  
**KYNAR / HMWPE**

**DESCRIPTION & FEATURES :**

This specification describes a stranded single conductor sizes 8 AWG thru 1/0 AWG with a dual insulation construction. The inner layer or the primary insulation is composed of KYNAR, a fluoropolymer material that has exceptional chemical resistance in the presents of chlorine, sulfuric acid, and hydrochloric acid. The outer insulating layer is high molecular weight polyethylene (HMWPE) it exhibits superior dielectric and tensile strength and provides mechanical protection, and can withstand considerable abuse during installation.

**APPLICATION :**

KYNAR / HMWPE cables are used as deep anode lead wires where chlorine and hydrogen gases are generated. The cable can be directly installed in fresh, brackish, or salt waters.

**STANDARDS :**

**CONDUCTOR:**

Stranded bare or tinner copper conductor conforms to ASTM Spec B-3 and B-8.

**PRIMARY INSULATION:**

A homogeneous 20 mil wall of natural PVDF fluoropolymer (Kynar) shall be extruded around the conductor.

**JACKET:**

A 65 mil wall of high molecular weight polyethylene (HMWPE) shall be extruded around the primary insulation. The jacket conforms to ASTM Spec D 1248.

For identification purpose the cable shall be surface printed with. "Manufacturer name Conductor size AWG, KYNAR / HMWPE CATHODIC PROTECTION CABLE"

CONDUCTOR				NOMINALS (IN.)				
AWG	Strand	Dia	Cir mils	KYNAR	HMWPE	Dia	Wgt / MFT	DC Ohms
8	7	0.146	16,533	0.020	0.065	0.316	81	0.645
6	7	0.184	26,218	0.020	0.065	0.354	116	0.407
4	7	0.232	41,718	0.020	0.065	0.402	170	0.256
2	7	0.292	66,407	0.020	0.065	0.462	254	0.160