



CABLE HMWPE


REVISION 1

APPLICATION

Surface wiring & buried if protected by clean sand. Suitable for use as anode cable tails, positive feed cable, negative return cable and test cable.

HMWPE CABLE DATA



The cable utilized in cathodic protection systems is a critical component of any cathodic protection system. The industry standard cable for direct burial is a stranded copper conductor covered with an insulation of high molecular weight polyethylene (HMWPE). The thick insulation provides both electric isolation and mechanical protection. During installation, this cable can withstand considerable mechanical abuse without compromising the conductor. The HMWPE insulation is chemically resistant and protects against most organic and inorganic substances.

STANDARDS

Conductor : Stranded copper conductor conforms to ASTM Specification B-8.

Insulation : Insulation is high molecular weight polyethylene conforming to ASTM D-1248, Type 1, Class A, Category 5, Grades E4 & E5. Tensile Strengths J1, J3. Available with high density polyethylene (Types II, III, IV) Class B & C (all colors).

Tests : The completed cable shall be tested in accordance with the requirements of ICEA Pub. No. S-61-402, Part 6.

STANDARD SIZE AND DATA

WIRE SIZE		INSULATION THICKNESS	NOMINAL O.D.	NUMBER OF STRANDS	NOMINAL OD	
AWG	mm ²	Inches	mm	No	Inches	mm
14	2.5	0.11	2.794	7	0.299	7.59
12	4	0.11	2.794	7	0.31	7.87
10	6	0.11	2.794	7	0.34	8.64
8	10	0.11	2.794	7	0.36	9.14
6	16	0.11	2.794	7	0.41	10.41
4	25	0.11	2.794	7	0.46	11.68
2	35	0.11	2.794	7	0.52	13.21
1	45	0.125	3.175	19	0.59	14.99
1/0	50	0.125	3.175	19	0.63	16
2/0	70	0.125	3.175	19	0.67	17.02
4/0	120	0.125	3.175	19	0.78	19.82