



Cathodic Protection Cable Data Sheet Cu/XLPE/PVC

GENERAL

This specification covers the minimum requirements for the materials and dimensions of cables intended for DC services in cathodic protection systems.

INSULATIONS

Polyvinyl Chloride (PVC)	Insulation and sheath compound based on Polyvinyl chloride or copolymer of Vinylchloride and vinyl acetate conforming to ASTM specification D 2219 (as Insulation) and D 1047 (as Jacketing)
Cross-Linked Polyethylene	Insulation compound based on chemically cross-linked polyethylene conforming to ASTM specification D 2655. The base polymer of this insulation consists substantially of polyethylene copolymer.
(XLPE)	Insulation and sheath compound based on thermoplastic polyethylene conforming to ASTM specification D 1315 (as Insulation) and D 2308 (as Jacketing).
High Molecular Weight Polyethylene	Insulation compound based on especially chemical-resistant modified Polyvinylidene fluoride to ASTM specification D 3144.

CONDUCTOR

STANDARD				IPS-M-TP-750: Cathodic Protection Cables				
Size (mm ²)				NO. standard * diameter N.d _{mm}	Sheath thickness mm	Insu. Thick. (mm)	App. Over. Dia. (mm)	App. Weight Kg/Km
1	×	4		7 × 0.85	1.4	0.7	6.8	80
		6		7 × 1.04	1.4	0.7	7.3	105
		10		7 × 1.35	1.4	0.7	8.3	145
		16		7 × 1.70	1.4	0.7	9.3	210
		25	☑	7 × 2.14	1.4	0.9	11.0	310
		35		7 × 2.52	1.4	0.9	12.2	410
		50	☑	19 × 1.78	1.4	1.0	13.7	530
		70		19 × 2.17	1.4	1.1	16.1	770
		95		19 × 2.52	1.5	1.1	17.8	1010
		120	☑	37 × 2.03	1.5	1.2	19.8	1270
		150		37 × 2.25	1.6	1.4	21.8	1550
		185	☑	37 × 2.52	1.6	1.6	24.2	1940
		240		37 × 2.88	1.7	1.7	27.4	2510
		300		61 × 2.52	1.8	1.8	30	3110



شرکت مهندسی فرا صنعت بان

Fara Sanat Ban Eng. Co.

ARMOURED	Aluminum Wire Anode (AWA)	No
	Steel Wire Anode (SWA)	No
CONDUCTOR	Material	Purity copper
	Shape	Stranded
	Characteristics	Soft & Annealed
INSPECTION & TEST	Dimension and Construction	✓
	Dielectric strength of conductor	✓
	Electrical resistance of conductor	✓
	Insulation resistance	✓
	Voltage test	✓
PACKING	Wooden drum	✓
	Anti-damage wooden boarding	✓
	Shrinkage of top & end of cable	✓