



XLPE/PVC INSULATED POWER CABLE



CELEBRATED ENTERPRISE IN CATHODIC PROTECTION

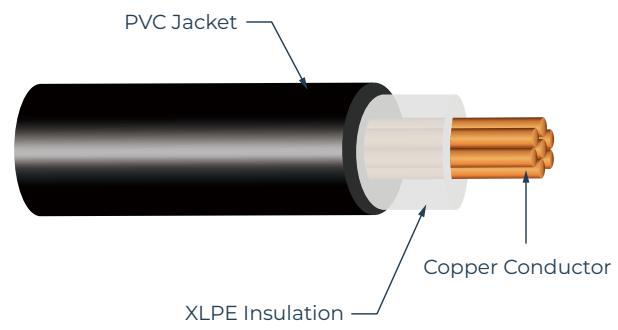
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XLPE/PVC INSULATED POWER CABLE

DATA SHEET



The XLPE/PVC cable, widely employed in cathodic protection systems, is comprised of a copper core, which is covered with an insulation layer made of cross-linked polyethylene (XLPE). This XLPE insulation layer exhibits excellent chemical resistance and low-temperature tolerance. Additionally, the jacket layer is made of PVC material which enhances its dielectric strength, waterproofness and flame retardancy.



TECHNICAL DATA

Technical Measurement	Performance
Rated Voltage Uo/U	0.6/1 kV
Highest System Voltage	1.2 kV
Maximum Conductor Temperature	90 °C (Normal) 130 °C (Emergency)
Minimum Ambient Temperature (After Installation)	0 °C (fixed cable position only)
Maximum Permissible Tensile Load	50 N/mm ²
Short-circuit Temperature	250 °C
Minimum Bending Radius	Single Core: 20×OD Multi Core: 15×OD
Silicone Free	Yes



APPLICATION

Our cable, primarily intended for use as a main power supply, can be installed in a wide range of environments. With XLPE insulation, it boasts flame retardancy and corrosion resistance, making it well-suited for installations rated at 0.6/1 kV. It is an excellent choice for distribution networks, power stations, and substations. Additionally, it is versatile enough for fixed installation in power lines and can be laid in various settings, including industrial areas, indoors, underground, and outdoors.



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SPECIFICATIONS

Cross Section	Strand Qty	Conductor Diameter	Insulation Thickness	Sheath Thickness	Overall Diameter	D.C. Resistance (@ 20°C)	Current Rating	Net Weight
6 mm ²	7	41 mils (1.04 mm)	28 mils (0.7 mm)	55 mils (1.4 mm)	0.06" (7.3 mm)	3.08 Ω/km	30 A	1.04 oz/ft (96 g/m)
10 mm ²	7	53 mils (1.35 mm)	28 mils (0.7 mm)	55 mils (1.4 mm)	0.29" (8.2 mm)	1.83 Ω/km	42 A	1.53 oz/ft (142 g/m)
16 mm ²	7	67 mils (1.7 mm)	28 mils (0.7 mm)	55 mils (1.4 mm)	0.36" (9.3 mm)	1.15 Ω/km	56 A	2.21 oz/ft (205 g/m)
25 mm ²	7	84 mils (2.14 mm)	35 mils (0.9 mm)	55 mils (1.4 mm)	0.43" (11 mm)	0.727 Ω/km	73 A	3.22 oz/ft (303 g/m)
35 mm ²	7	99 mils (2.52 mm)	35 mils (0.9 mm)	55 mils (1.4 mm)	0.48" (12.1 mm)	0.524 Ω/km	90 A	4.29 oz/ft (402 g/m)
50 mm ²	7	117 mils (2.98 mm)	39 mils (1 mm)	55 mils (1.4 mm)	0.51" (13.1 mm)	0.387 Ω/km	145 A	5.87 oz/ft (547 g/m)
70 mm ²	14	102 mils (2.58 mm)	43 mils (1.1 mm)	55 mils (1.4 mm)	0.59" (15.1 mm)	0.268 Ω/km	185 A	8.04 oz/ft (746 g/m)

Notes: All dimensions and weights are nominal. The parameter provided is subject to variation in material compositions and Jennings Anodes foundry tolerance.



Worldwide Service Network

Our worldwide network of sales and service centers can provide immediate advice and assistance on the complete range of products.

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