



CATHODIC PROTECTION CABLES



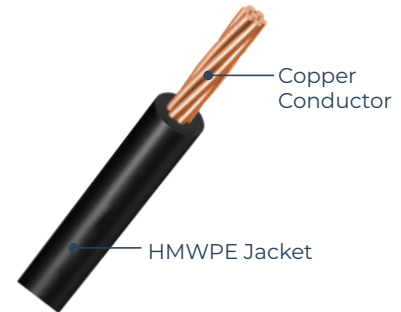
50 YEARS EXPERIENCE IN CATHODIC PROTECTION





■ HMWPE Cable

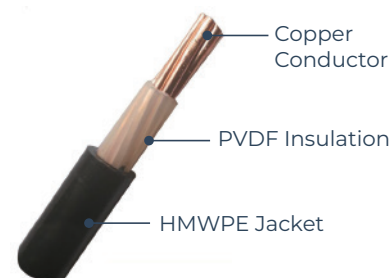
HMWPE cable utilizes stranded copper conductors that are insulated with a high molecular weight polyethylene (HMWPE) compound. It provides strong resistance to abrasion, crushing, chemicals, oil, moisture, and other elements.



Cross Section	Strands	Conductor Dia.	Insulation Thk.	Overall Dia.	D.C. Resistance(20°C)	Current Rating
2.5 mm ²	7	1.70 mm	2.8 mm	7.7 mm	7.41 Ω/km	18 A
4 mm ²	7	2.20 mm	2.8 mm	8.2 mm	4.63 Ω/km	24 A
6 mm ²	7	1.04 mm	2.8 mm	8.8 mm	3.08 Ω/km	30 A
10 mm ²	7	1.35 mm	2.8 mm	9.7 mm	1.83 Ω/km	42 A
16 mm ²	7	1.70 mm	2.8 mm	10.7 mm	1.15 Ω/km	56 A
25 mm ²	7	2.14 mm	2.8 mm	12.1 mm	0.727 Ω/km	73 A
35 mm ²	7	2.52 mm	2.8 mm	13.2 mm	0.524 Ω/km	90 A
50 mm ²	19	1.78 mm	3.18 mm	15.3 mm	0.387 Ω/km	145 A
70 mm ²	19	2.14 mm	3.18 mm	17.1 mm	0.268 Ω/km	185 A

■ PVDF/HMWPE Cable

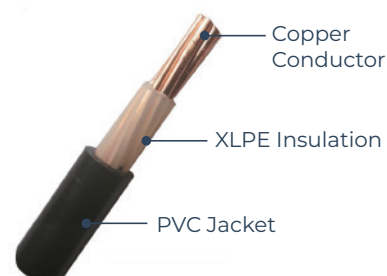
This cable is composed of stranded copper wire covered by two layers of insulation. The outer jacket is made from high molecular weight polyethylene. The inner insulation is composed of PVDF fluorocopolymer. It can be installed directly in native soils or submerged in fresh, brackish or salt waters. The cable is ideal for deep anode bed installations where chlorine and hydrogen gases are generated.



Cross Section	Strands	Conductor Dia.	Insulation Thk.	Overall Dia.	D.C. Resistance(20°C)	Current Rating
6 mm ²	7	1.04 mm	0.65 mm	7.7 mm	3.08 Ω/km	30 A
10 mm ²	7	1.35 mm	0.65 mm	8.7 mm	1.83 Ω/km	42 A
16 mm ²	7	1.70 mm	0.65 mm	9.8 mm	1.15 Ω/km	56 A
25 mm ²	7	2.14 mm	0.65 mm	11.0 mm	0.727 Ω/km	73 A
35 mm ²	7	2.52 mm	0.65 mm	12.1 mm	0.524 Ω/km	90 A
50 mm ²	19	1.78 mm	0.65 mm	12.4 mm	0.387 Ω/km	145 A

■ XLPE/PVC Cable

XLPE/PVC cable is the most common used cable in cathodic protection systems. It is composed of copper core covered with XLPE Insulation layer which has excellent chemical resistance and low temperature tolerance. The jacket layer is made of PVC material which enhance its dielectric strength, waterproofness and flame retardancy .



Cross Section	Strands	Conductor Dia.	Insulation Thk.	Overall Dia.	D.C. Resistance(20°C)	Current Rating
6 mm ²	7	1.04 mm	0.7 mm	7.3 mm	3.08 Ω/km	30 A
10 mm ²	7	1.35 mm	0.7 mm	8.2 mm	1.83 Ω/km	42 A
16 mm ²	7	1.70 mm	0.7 mm	9.3 mm	1.15 Ω/km	56 A
25 mm ²	7	2.14 mm	0.9 mm	11.0 mm	0.727 Ω/km	73 A
35 mm ²	7	2.52 mm	0.9 mm	12.1 mm	0.524 Ω/km	90 A
50 mm ²	7	2.98 mm	1.0 mm	13.1 mm	0.387 Ω/km	145 A
70 mm ²	14	2.58 mm	1.1 mm	15.1 mm	0.268 Ω/km	185 A



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