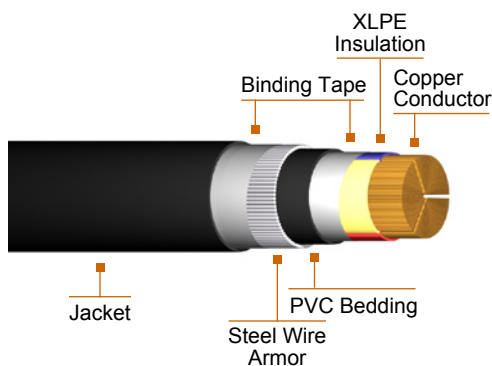


Low Voltage Power Cable

Three Core 600/1000 V Cable with Stranded Copper Conductors, LSOH Jacket



Detail Description or Construction

Three cross-linked polyethylene insulated conductor of stranded copper, with steel wire armor and thermoplastic jacket of LSOH (Low smoke halogen free, flame retardant).

Application

For use in ducts, trays and direct burial in ground. The cable is subject to immerse in water all the time.

Standards / Testing Specifications

- IEC 60502-1.

Marking

0.6/1 KV XLPE/SWA/LSOH A x B SQ.MM.,
PHELPS DODGE

A = Number of cores

B = Size of conductor (SQ.MM.)

Installation

Low voltage power cable can be installed in duct, tray or direct burial. It is recommended that the installation instructions indicated by the Local Electric Code, or any equivalent, be followed, so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation.



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Nominal Cross-sectional Area of Conductor ¹⁾	Thickness of Insulation	Thickness of Extruded Bedding	Nominal Steel Armor Wire Diameter	Thickness of Oversheath	Approximate Overall Diameter	Approximate Cable Weight	Standard Packing
mm ²	mm	mm	mm	mm	mm	kg / km	m
16 ¹⁾	0.7	0.8	1.25	1.6	21.6	1,135	500/R
25 ²⁾	0.9	1.0	1.6	1.7	23.6	1,720	500/R
25 ¹⁾	0.9	1.0	1.6	1.7	26.7	1,720	500/R
35 ²⁾	0.9	1.0	1.6	1.8	25.7	2,110	500/R
35 ¹⁾	0.9	1.0	1.6	1.8	29.4	2,110	500/R
50 ²⁾	1.0	1.0	1.6	1.8	28.5	2,460	500/R
70 ²⁾	1.1	1.0	1.6	1.9	32.2	3,140	500/R
95 ²⁾	1.1	1.2	2.0	2.1	37.0	4,330	500/R
120 ²⁾	1.2	1.2	2.0	2.2	40.4	5,190	500/R
150 ²⁾	1.4	1.4	2.5	2.3	45.5	7,200	500/R
185 ²⁾	1.6	1.4	2.5	2.4	49.8	8,640	500/R
240 ²⁾	1.7	1.4	2.5	2.6	55.1	10,810	500/R
300 ²⁾	1.8	1.6	2.5	2.7	60.2	13,150	500/R
400 ²⁾	2.0	1.6	2.5	2.9	66.6	15,890	500/R

¹⁾ Circular or compacted circular stranded conductors (class2).

²⁾ Shaped stranded conductor (class 2).

R = Packing in reel.



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Current carrying capacities in amperes for 600/1000 V XLPE insulation
Three core cable, in free Air (30°C) and in ground (20°C)

Nominal Cross-sectional Area of Conductor	Installation Methods of Table A.52-1	
	In air	Direct burial
mm ²		
Copper		
16	96	79
25	119	101
35	147	122
50	179	144
70	229	178
95	278	211
120	322	240
150	371	271
185	424	304
240	500	351
300	576	396

Note: Ampacity of 3/C cable, XLPE insulation based on conductor temperature of 90°C and - ambient air temperature of 30°C per IEC 60364-5-52 : 2001, Table A. 52-5(52-C4) Column 6 - ground temperature of 20°C per IEC 60364-5-52 : 2001, Table A. 52-5(52-C4) Column 7.