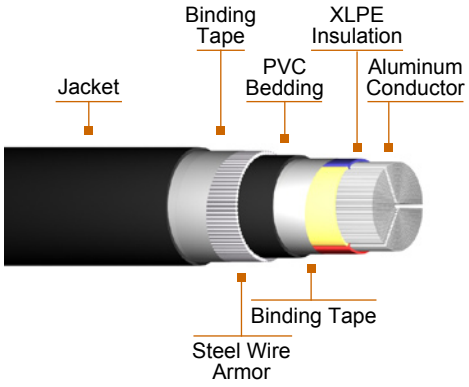
PDTL Low Voltage Power Cable

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



Detail Description or Construction

Three cross-linked polyethylene insulated conductor of stranded aluminum, 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
25[2)]	0.9	1	1.6	1.7	23.6	1,230	500/R
25[1)]	0.9	1	1.6	1.7	26.7	1,230	500/R
35[2)]	0.9	1	1.6	1.8	25.7	1,420	500/R
35[1)]	0.9	1	1.6	1.8	29.4	1,420	500/R
50[2)]	1.0	1	1.6	1.8	28.5	1,560	500/R
70[2)]	1.1	1	1.6	1.9	32.2	1,820	500/R
95[2)]	1.1	1.2	2	2.1	37.0	2,510	500/R
120[2)]	1.2	1.2	2	2.2	40.4	2,880	500/R
150[2)]	1.4	1.4	2.5	2.3	45.5	3,680	500/R
185[2)]	1.6	1.4	2.5	2.4	49.8	4,340	500/R
240[2)]	1.7	1.4	2.5	2.6	55.1	5,200	500/R
300[2)]	1.8	1.6	2.5	2.7	60.2	6,130	500/R
400[2)]	2.0	1.6	2.5	2.9	66.6	7,090	500/R

[1)] Circular or compacted circular stranded conductor (class 2)
[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 (30ºC) and in ground (20ºC)

Nominal Cross-sectional Area of Conductor	Installation Methods of Table A.52-1	
mm^2	In air	Direct burial
Aluminum		
16	76	61
25	90	78
35	112	94
50	136	112
70	174	138
95	211	164
120	245	186
150	283	210
185	323	236
240	382	272
300	440	308

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