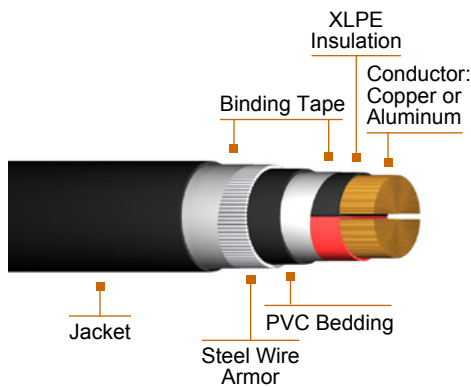


Low Voltage Power Cable

Two Core 600/1000 V Cable with Stranded Conductor, LSOH Jacket



Detail Description or Construction

Two cross-linked polyethylene insulated conductor of stranded copper or 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
						kg / km		
mm ²	mm	mm	mm	mm	mm	Copper	Aluminum	m
16 ¹⁾	0.7	0.8	1.25	1.5	20.4	905	810	500/R
25 ²⁾	0.9	0.8	1.25	1.6	20.4	1245	920	500/R
25 ¹⁾	0.9	0.8	1.25	1.6	24.1	1250	925	500/R
35 ²⁾	0.9	1.0	1.6	1.7	23.3	1715	1265	500/R
35 ¹⁾	0.9	1.0	1.6	1.7	27.7	1720	1270	500/R
50 ²⁾	1.0	1.0	1.6	1.8	25.8	1810	1440	500/R
70 ²⁾	1.1	1.0	1.6	1.9	29.0	2330	1790	500/R
95 ²⁾	1.1	1.2	2.0	2.0	33.1	3160	1960	500/R
120 ²⁾	1.2	1.2	2.0	2.1	36.1	3890	2450	500/R
150 ²⁾	1.4	1.2	2.0	2.2	39.3	4840	3060	500/R
185 ²⁾	1.6	1.4	2.5	2.4	44.7	5940	3700	500/R
240 ²⁾	1.7	1.4	2.5	2.5	49.0	7320	4395	500/R
300 ²⁾	1.8	1.6	2.5	2.6	53.5	8790	5120	500/R
400 ²⁾	2.0	1.6	2.5	2.8	59.0	9810	6110	500/R

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

²⁾ Shaped stranded conductor (class 2)

R = Packing in reel



Low Voltage Power Cable

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Current carrying capacities in amperes for 600/1000 V XLPE insulation,
Two core with reduced neutral conductor, 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		

Nominal Cross-sectional Area of Conductor	Installation Methods of Table A.52-1	
	In air	Direct burial
mm ²		

Copper		
16	107	95
25	138	121
35	171	146
50	209	173
70	269	213
95	328	252
120	382	287
150	441	324
185	506	363
240	599	419
300	693	474

Aluminum		
16	84	73
25	101	93
35	126	112
50	154	132
70	198	163
95	241	193
120	280	220
150	324	249
185	371	279
240	439	322
300	508	364

Note: Ampacity of 2/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. 52-3(52-C2) Column 6 - ground temperature of 20°C per IEC 60364-5-52: 2001, Table A. 52-3(52-C2) Column 7