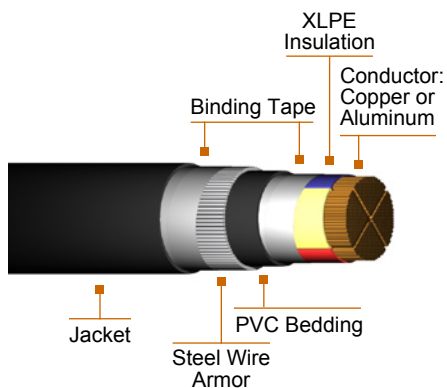


Low Voltage Power Cable

Four Core 600/1000 V Cable with Stranded Conductor, PVC Jacket



Detail Description or Construction

Four cross-linked polyethylene insulated conductor of stranded copper or aluminum, with steel wire armor and thermoplastic jacket of PVC (Polyvinyl Chloride).

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/PVC 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.



Low Voltage Power Cable

Four Core 600/1000 V Cable with Stranded Conductor, PVC Jacket

Nominal Cross-Sectional Area of Conductor ¹⁾	Thickness of Insulation	Thickness of Extruded Bedding	Nominal Steel Armor Wire Diameter	Thickness of Oversheath	Approx. Overall Diameter	Cable Weight		Standard Packing
						kg / km		
mm ²	mm	mm	mm	mm	mm	Copper	Aluminum	m
16 ¹⁾	0.7	0.8	1.25	1.6	23.4	1320	-	500/R
25 ²⁾	0.9	1.0	1.6	1.7	26.1	1840	1200	500/R
25 ¹⁾	0.9	1.0	1.6	1.7	28.9	1850	1210	500/R
35 ²⁾	0.9	1.0	1.6	1.8	28.6	2310	1420	500/R
35 ¹⁾	0.9	1.0	1.6	1.8	31.9	2320	1430	500/R
50 ²⁾	1.0	1.0	1.6	1.9	32.0	2970	1770	500/R
70 ²⁾	1.1	1.2	2.0	2.1	37.7	4240	2500	500/R
95 ²⁾	1.1	1.2	2.0	2.2	41.7	5400	2980	500/R
120 ²⁾	1.2	1.4	2.5	2.3	47.1	7000	3950	500/R
150 ²⁾	1.4	1.4	2.5	2.4	51.4	8350	4600	500/R
185 ²⁾	1.6	1.4	2.5	2.6	56.6	10130	5430	500/R
240 ²⁾	1.7	1.6	2.5	2.7	63.0	12840	6660	500/R
300 ²⁾	1.8	1.6	2.5	2.9	68.8	15530	7770	500/R
400 ²⁾	2.0	1.8	3.15	3.2	78.1	19950	10380	500/R

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

²⁾ Shaped stranded conductor (class 2)

R = Packing in reel



Low Voltage Power Cable

Four Core 600/1000 V Cable with Stranded Conductor, PVC Jacket

Current carrying capacities in amperes for 600/1000 V Four cores, XLPE insulation four 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

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