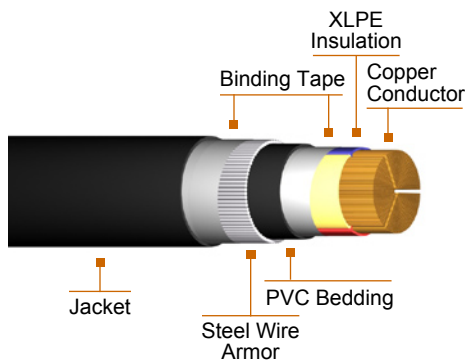


## Low Voltage Power Cable

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



### Detail Description or Construction

Three cross-linked polyethylene insulated conductor of stranded copper, 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

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

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

<sup>1)</sup> Circular or compacted circular stranded conductor (class2).

<sup>2)</sup> Shaped stranded conductor (class 2)

R = Packing in reel



## Low Voltage Power Cable

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

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 <sup>2</sup>		
	<b>Copper</b>	
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