

# XLPE Cable, PVC sheathed, Single Core Copper SDI

XLP 1X16 PC XLPPVC 1000M

**Nexans Ref.:** BDBP15A9001CXNA

**EAN 13:** 9319215478438

16mm<sup>2</sup> XLPE / PVC SDI Black 1000m

## DESCRIPTION

- Single core, 0.6/1kV X-90 insulated,
- PVC sheathed to AS/NZS 5000.1,
- Copper 90°C.

Mains; Submains



## STANDARDS

**National** AS/NZS 1125; AS/  
NZS 5000.1



Conductor flexibility  
**Class 2**



Rated Voltage U<sub>0</sub>/U (U<sub>m</sub>)  
**0.6/1 kV**



Cable flexibility  
**Rigid**

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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## CHARACTERISTICS

### Construction characteristics

Colour	Black
Conductor flexibility	Class 2
Conductor material	Copper
Conductor shape	Circular
Insulation	X-90
Outer sheath	PVC
Type of conductor	Stranded copper
With Green/Yellow core	No
With smaller neutral conductor	No

### Dimensional characteristics

Approximate weight	21.0 kg/100m
Cable length	1000 m
Conductor cross-section	16 mm <sup>2</sup>
Neutral conductor section (when smaller)	- mm <sup>2</sup>
Nominal insulation thickness	0.8 mm
Nominal outer sheath thickness	1.4 mm
Nominal overall diameter	9.3 mm
Number of cores	1

### Electrical characteristics


















Conductor AC resistance at 50 Hz	0.236 Ohm/km
Inductive reactance at 50Hz - flat touching	0.102 Ohm/km
Inductive reactance at 50Hz - trefoil	0.087 Ohm/km
Insulation resistance at 20°C	370 MOhm.km
Max. DC resistance of the conductor at 20°C	1.15 Ohm/km
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0.6/1 kV

### Mechanical characteristics

Cable flexibility	Rigid
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## XLPE/PVC SINGLE CORE - CURRENT CARRYING CAPACITY TABLE SINGLE PHASE (IN AMPS)

Copper Conductor Insulation XLPE Maximum Conductor Temperature 90C

Conductor cross-section [mm²]																		
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al		
16	112	87	108	84	86	67	84	65	67	52	43	33	139	107	100	78	112	87
 Unenclosed spaced			 Unenclosed spaced from surface					 Unenclosed touching										
 Enclosed conduit in air			 Thermal insulation, partially surrounded by thermal insulation					 Thermal insulation, completely surrounded by thermal insulation										
 Buried direct			 Underground ducts A - Underground Wiring Enclosure					 Underground ducts B - Individual Wiring Enclosure										



















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Generated 9/03/22 www.olex.com.au Page 2 / 3

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## XLPE/PVC SINGLE CORE - CURRENT CARRYING CAPACITY TABLE THREE PHASE (IN AMPS)

Copper Conductor Insulation XLPE Maximum Conductor Temperature 90C

Conductor cross-section [mm <sup>2</sup> ]																		
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
16	108	84	92	71	86	67	72	56	58	45	43	33	117	91	86	66	101	79
 Unenclosed spaced			 Unenclosed spaced from surface			 Unenclosed touching												
 Enclosed conduit in air			 Thermal insulation, partially surrounded by thermal insulation			 Thermal insulation, completely surrounded by thermal insulation												
 Buried direct			 Underground ducts A - Underground Wiring Enclosure			 Underground ducts B - Individual Wiring Enclosure												