

CU Distribution Cables

CU DISTRN-USC XL 2X 16^

Contact

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Nexans Ref.: DEVP15VT002CXHF

Country Ref.: 6988

Cu conductors, XLPE insulation, Black PVC sheath. Vector Specification.

DESCRIPTION

Application

- Industrial, commercial and domestic applications.
- Recommended for distribution systems.



STANDARDS

National Customer specification



Conductor flexibility
Class 2



Rated Voltage Uo/U (Um)
0.6/1 (1.2) kV



Cable flexibility
Rigid



Max. conductor temp. in service
90 °C



U.V resistance
Yes

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The Nexans logo, featuring a stylized red 'N' followed by the word 'nexans' in a black, lowercase, sans-serif font.

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CHARACTERISTICS

Construction characteristics

Conductor material	Copper
Type of conductor	Circular, stranded
Insulation	XLPE
Outer sheath	PVC
Conductor flexibility	Class 2
Conductor shape	Circular
Core identification	Red,Black
Sheath colour	Black
With Green/Yellow core	No
With smaller neutral conductor	No

Dimensional characteristics

Number of cores	2
Conductor cross-section	16 mm ²
Nominal overall diameter	19.1 mm
Approximate weight	0.37 kg/m
Neutral conductor section (when smaller)	- mm ²

Electrical characteristics

Conductor AC resistance at 50 Hz	- Ohm/km
Inductive reactance at 50Hz	- Ohm/km
Insulation resistance at 20°C	- MOhm.km
Max. DC resistance of the conductor at 20°C	1.15 Ohm/km
Rated Voltage U ₀ /U (U _m)	0.6/ 1 (1.2) kV

Mechanical characteristics

Cable flexibility	Rigid
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Usage characteristics

Max. conductor temperature in service	90 °C
U.V resistance	Yes

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CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - COPPER DISTRIBUTION, TWO CORE

Copper conductor Circular stranded Insulation XLPE Max. Conductor Temperature 90C

Conductor cross-section [mm²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
16	114	107	90	141	105	54
 Air spaced from surface, unenclosed	 Air touching, unenclosed		 Air enclosed			
 Buried direct	 Buried in single-way duct		 Cable surrounded by thermal insulation, unenclosed			

Note

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The values are for typical New Zealand installation conditions of:

- Ambient Air Temperature: 30°C
- Soil Temperature: 15°C
- Soil Thermal Resistivity: 1.2 K.m/W
- Depth of Burial: 0.5 m