



Nexans
Ref.: BDBC26AA001CXNA
Country Ref.: 2038
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Cu conductor, XLPE insulated, Black PVC sheath. 0.6/1 kV. Made to AS/NZS 5000.1

STANDARDS

Product AS/NZS 5000.1

Application

- Industrial and commercial applications (predominantly)
- Some domestic applications
- For use in various situations to supply the main power from the point of supply (either single or three phase application) to buildings, equipment, eg, switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc. Commonly used in Power Authority work.



Conductor flexibility
Class 2



Rated Voltage U₀/U (Um)
0.6/ 1 (1.2) kV



Cable flexibility
Rigid



Max.conductor temp.in service
90 °C



U.V resistance
Yes

CHARACTERISTICS

Construction characteristics

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

Dimensional characteristics

Conductor cross-section	240 mm ²
Nominal overall diameter	25.5 mm
Gland Size (A2 or A2F)	32
Approximate weight	2.5 kg/m
Neutral conductor section (when smaller)	- mm ²
Number of cores	1

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.0754 Ohm/km
Permissible short circuit current conductor 1s	34.3 kA
Rated Voltage U _o /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

CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - SINGLE CONDUCTOR XLPE

Copper/ALuminium conductor - Circular compacted stranded - Insulation XLPE Max. Conductor Temperature 90C

Conductor cross-section [mm ²]																	
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al			
240	684	534	574	449	507	396	674	526	574	446	532	415	-	-			
	Air Spaced from Surface, Unenclosed			Air touching, unenclosed			Air enclosed			Buried direct			Buried in single-way duct			Buried in multi-way duct	
	Cable surrounded by thermal insulation, unenclosed																

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Zealand under Copyright Licence 000926. Please refer to the complete Standard for full details available for purchase from Standards New Zealand at www.standards.co.nz. 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

CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - SINGLE CONDUCTOR XLPE

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

Conductor cross-section [mm ²]																	
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al			
240	616	482	573	448	439	343	560	438	510	397	456	356	-	-			
	Air Spaced from Surface, Unenclosed			Air touching, unenclosed			Air enclosed			Buried direct			Buried in single-way duct			Buried in multi-way duct	
	Cable surrounded by thermal insulation, unenclosed																

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