

Nexans Ref.: BDBH25AA001CXNA

Country Ref.: 3244

Al conductor, XLPE insulated, Black PVC sheath. 0.6/1 kV. Made to AS/NZS 5000.1

DESCRIPTION

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.



STANDARDS

National AS/NZS 5000.1

CHARACTERISTICS

Construction characteristics

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

Dimensional characteristics

Conductor cross-section	185 mm ²
Nominal overall diameter	22.8 mm
Gland Size (A2 or A2F)	32
Approximate weight	0.76 kg/m
Neutral conductor section (when smaller)	- mm ²
Number of cores	1

Electrical characteristics

Max. DC resistance of the conductor at 20°C (Ohm/km)	0.164
Permissible short circuit current conductor 1s	- kA
Rated Voltage U ₀ /U (Um)	0.6/ 1 (1.2) kV

Mechanical characteristics

Cable flexibility	Rigid
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Usage characteristics

Max. conductor temperature in service	90 °C
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CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - SINGLE CONDUCTOR XLPE

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

Conductor cross-section [mm²]														
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
185	574	447	480	374	426	331	581	581	495	384	453	352	-	
	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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- 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 [mm²]														
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
185	515	402	479	373	369	287	484	377	442	343	388	303	-	
	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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