

AL Neutral Screened Cables single core

AL NSCRN XL 1X 120^A BK 3.2

Contact

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Nexans Ref.: BDGH43PX001CXRD

Country Ref.: 6550

Al conductors, XLPE insulation, Laid up, Cu neutral screen, Black PVC sheath. 0.6/1 kV. Made to AS/NZS 4961.

DESCRIPTION

Application

- Industrial, commercial and domestic applications.
- For use in various situations to supply the main power from the point of supply to buildings, equipment shed, e.g. switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc.



STANDARDS

National AS/NZS 4961



Conductor flexibility
Class 2



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



Cable flexibility
Rigid



Max. conductor temp. in service
90 °C

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CHARACTERISTICS

Construction characteristics

Pilot wires	None
Type of conductor	Circular compacted
Sheath colour	Black
Conductor material	Aluminum
Insulation	XLPE
Screen	Copper wire
Outer sheath	PVC
Conductor flexibility	Class 2
Conductor shape	Circular
Core identification	Red
With Green/Yellow core	No
With smaller neutral conductor	No

Dimensional characteristics

Conductor cross-section	120 mm ²
Nominal overall diameter	26.2 mm
Nominal overall diameter	-
Approximate weight	1.41 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)	0.253
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(IN AMPS) - SINGLE CORE AL NEUTRAL SCREEN SINGLE PHASE

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

Conductor cross-section [mm²]	 AI	 AI	 AI	 AI	 AI
120	329	307	244	341	264
 Air Spaced from Surface, Unenclosed	 Air touching, unenclosed	 Air enclosed			
 Buried direct	 Buried in single-way duct				

Note

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The values in this table 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