

AL Neutral Screened Cables

AL NSCRN XL 3X120+10P BK 3.2

Contact

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Nexans Ref.: QDZG23PX003CXRJ

Country Ref.: 3164

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

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CHARACTERISTICS

Construction characteristics

Pilot wires	10 mm ²
Type of conductor	Sector-shaped, stranded
Sheath colour	Black
Conductor material	Aluminum
Insulation	XLPE
Screen	Copper wire
Outer sheath	PVC
Core identification	Red, White Blue
With Green/Yellow core	No
With smaller neutral conductor	No

Dimensional characteristics

Number of cores	3
Conductor cross-section	120 mm ²
Nominal overall diameter	39.6 mm
Nominal overall diameter	-
Approximate weight	2.59 kg/m
Neutral conductor section (when smaller)	- mm ²

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) - AL NEUTRAL SCREEN CABLES 3 CORE THREE PHASE

Aluminium conductor 35 and 50 mm² Circular compacted, 70 and 95 mm² Shaped stranded Insulation XLPE Max. Conductor Temperature 90C

Conductor cross-section
[mm²]



Al



Al



Al



Al



Al

120

282

262

211

286

225



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