# AL Neutral Screened Cables single core

**AL NSCRN XL 1X 185^ BK 3.2**

Contact
Sales and Customer Solutions
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**Nexans Ref.:** BDGH25PX001CXRD
**Country Ref.:** 5150

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

## DESCRIPTION

### Application

- Industrial, commerical 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

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

Cable flexibility
**Rigid**

Max.conductor temp.in service
**90 °C**

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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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 |
| Core identification | Red |
| With Green/Yellow core | No |
| With smaller neutral conductor | No |
| **Dimensional characteristics** | |
| Conductor cross-section | 185 mm² |
| Nominal overall diameter | 31.4 mm |
| Nominal overall diameter | - |
| Approximate weight | 2.08 kg/m |
| Neutral conductor section (when smaller) | - mm² |
| 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 Uo/U (Um) | 0.6/ 1 (1.2) kV |
| **Mechanical characteristics** | |
| Cable flexibility | Rigid |
| **Usage characteristics** | |
| Max. conductor temperature in service | 90 °C |

## 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] | Al | Al | Al | Al | Al |
| 185 | 436 | 406 | 322 | 433 | 345 |

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


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