# AL Cantol

**AL CANTOL 800**

Contact
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**Nexans Ref.:** BDBH33AA001CXNA
**Country Ref.:** 4864

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

| Conductor flexibility | Rated Voltage Uo/U (Um) | Cable flexibility | Max.conductor temp.in service | U.V resistance |
|---|---|---|---|---|
| **Class 2** | **0.6/ 1 (1.2) kV** | **Rigid** | **90 °C** | **Yes** |

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** | |
| Conductor material | Aluminum |
| 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 | 800 mm² |
| Nominal overall diameter | 44.7 mm |
| Gland Size (A2 or A2F) | 63S |
| Approximate weight | 3.01 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) | 0.0367 |
| 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 |
| U.V resistance | Yes |


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## 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 |
| 800 | - | 1037 | - | 964 | - | - | - | 825 | - | - | - | 706 | - | |

 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


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