AL Cantols

AL CANTOL 240

Contact
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Nexans Ref.: BDBH26AA001CXNA
Country Ref.: 2974

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

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CHARACTERISTICS

Construction characteristics	
Conductor material	Aluminum
Type of conductor	Circular compacted stranded
Insulation	XLPE
Outer sheath	PVC
Sheath colour	
With Green/Yellow core	No
With smaller neutral conductor	No
Dimensional characteristics	
Conductor cross-section	240 mm²
Nominal overall diameter	25.5 mm
Gland Size (A2 or A2F)	32
Approximate weight	0.97 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)	0.125
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

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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
240	684	534	574	449	507	396	674	674	574	446	532	415	-	


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
240	616	482	573	448	439	343	560	438	510	397	456	356	-	


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Cable surrounded by thermal insulation, unenclosed