

AL Cantols

AL CANTOL 95

Contact

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Nexans Ref.: BDBH21AA001CXNA

Country Ref.: 1879

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

CHARACTERISTICS

Construction characteristics

Conductor material	Aluminum
Type of conductor	Circular compacted stranded
Insulation	XLPE
Outer sheath	PVC
Sheath colour	Black
With Green/Yellow core	No
With smaller neutral conductor	No

Dimensional characteristics

Conductor cross-section	95 mm ²
Nominal overall diameter	16.9 mm
Gland Size (A2 or A2F)	25
Approximate weight	0.42 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)	0.32
Permissible short circuit current conductor 1s	- kA
Rated Voltage U _o /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 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 [mm ²]																				
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al						
95	372	288	306	238	281	218	401	401	331	256	305	236	-	-						
	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 [mm ²]																				
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al						
95	328	255	306	238	242	188	335	260	295	229	261	203	-	-						
	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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