

# CU Cantols

## CU CANTOL 150

### Contact

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**Nexans Ref.:** BDBC44AA001CXNA

**Country Ref.:** 4778

Cu 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	Copper
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	150 mm <sup>2</sup>
Nominal overall diameter	20.6 mm
Gland Size (A2 or A2F)	32
Approximate weight	1.55 kg/m
Neutral conductor section (when smaller)	- mm <sup>2</sup>
Number of cores	1

#### Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.124 Ohm/km
Permissible short circuit current conductor 1s	21.5 kA
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	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 <sup>2</sup> ]	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
150	495	385	413	320	362	281	514	514	429	333	391	303	-	-	-
	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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from Standards New Zealand at [www.standards.co.nz](http://www.standards.co.nz). The values 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

### 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 <sup>2</sup> ]																	
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al			
150	443	344	413	320	325	252	428	332	383	296	342	266	-	-			
	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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