Cempex Cables

CU CEMPEX 4X 50+16E

Contact
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Nexans Ref.: HTHC19AA004CXEM
Country Ref.: 2403

Cu Conductors, XLPE insulation, Laid up, Black PVC sheath, 0.6/1 kV. Made to AS/NZS 5000.1. Circular multicore with integral earth.

DESCRIPTION

Application

- Industrial, commercial and domestic applications.
- For use in various situations to supply the main power from the point of supply to buildings, equipment, sheds, eg, switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc.

STANDARDS

National AS/NZS 5000.1

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	
Type of conductor	Circular compacted stranded
Conductor material	Copper
Insulation	XLPE
Outer sheath	PVC
Conductor flexibility	Class 2
Conductor shape	Circular
Core identification	Red, White, Blue, Black, Green/Yellow
Sheath colour	Black
With Green/Yellow core	Yes
With smaller neutral conductor	No
Dimensional characteristics	
Number of cores	5
Conductor cross-section	50 mm²
Earth conductor cross section	16 mm²
Nominal overall diameter	30.3 mm
Gland Size (A2 or A2F)	40
Approximate weight	2.32 kg/m
Neutral conductor section (when smaller)	- mm²
Electrical characteristics	
Max. DC resistance of the conductor at 20°C	0.387 Ohm/km
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 THREE PHASE (IN AMPS) - 3 -4 CORE PLUS EARTH CU CEMPEX CABLES

Copper Conductor Circular stranded Insulation XLPE Max. Conductor Temperature 90C

Conductor cross-section						
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu
50	198	185	150	218	166	-

Air spaced from surface, unenclosed

Air touching, unenclosed

Air enclosed

Buried direct

Buried in single-way duct

Cable surrounded by thermal insulation, unenclosed

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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