

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

CHARACTERISTICS

Construction characteristics

Type of conductor	Circular compacted stranded
Conductor material	Copper
Insulation	XLPE
Outer sheath	PVC
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 mm ²
Earth conductor cross section	16 mm ²
Nominal overall diameter	30.3 mm
Gland Size (A2 or A2F)	40
Approximate weight	2.32 kg/m
Neutral conductor section (when smaller)	- mm ²

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.387 Ohm/km
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 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 [mm ²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
50	198	185	150	218	166	-

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