

# Cempex Cables

CU CEMPEX 2X 10+4E

## Contact

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**Nexans Ref.:** DTHP13AA002CXHF

**Country Ref.:** 8147

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, Black, Green/Yellow
Sheath colour	Black
With Green/Yellow core	Yes
With smaller neutral conductor	No

#### Dimensional characteristics

Number of cores	3
Conductor cross-section	10 mm <sup>2</sup>
Earth conductor cross section	4 mm <sup>2</sup>
Nominal overall diameter	14.8 mm
Gland Size (A2 or A2F)	25
Approximate weight	0.391 kg/m
Neutral conductor section (when smaller)	- mm <sup>2</sup>

#### Electrical characteristics

Max. DC resistance of the conductor at 20°C	1.83 Ohm/km
Permissible short circuit current conductor 1s	- kA
Rated Voltage U <sub>o</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 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 <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
10	73	68	58	67	67	34
 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