

# Cempex Cables

CU CEMPEX 4X 35+10E

## Contact

Sales and Customer Solutions  
sales.nz@nexans.com

**Nexans Ref.:** HTHC18AA004CXEM

**Country Ref.:** 2230

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	35 mm <sup>2</sup>
Earth conductor cross section	10 mm <sup>2</sup>
Nominal overall diameter	26.8 mm
Gland Size (A2 or A2F)	40
Approximate weight	1.74 kg/m
Neutral conductor section (when smaller)	- mm <sup>2</sup>

#### Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.524 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
-------------------	-------

#### 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 [mm <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
35	162	151	125	184	139	76
 Air spaced from surface, unenclosed	 Air touching, unenclosed	 Air enclosed	 Buried direct	 Buried in single-way duct	 Cable surrounded by thermal insulation, unenclosed	

#### Note

Content from AS/NZS 3008.1.2:2010 has been reproduced with the permission from Standards New Zealand under Copyright Licence 000926. Please see the Standard for full details.

# Cempex Cables

CU CEMPEX 4X 35+10E

## Contact

Sales and Customer Solutions  
sales.nz@nexans.com

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