# **Cempex Cables**

**CU CEMPEX 4X 16+6E** 

Contact

General Sales inquiries Phone: 0508 NEXANS sales.nz@nexans.com

Nexans ref.: <u>HTHP15AA004CXEM</u>

Country ref.: 7656

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**

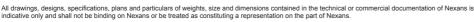
### **Application**

- 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





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### **CHARACTERISTICS**

Construction characteristics	
Type of conductor	Circular compacted stranded
Conductor material	Copper
Insulation	XLPE
Outer sheath	PVC
Sheath colour	Black
With Green/Yellow core	Yes
With smaller neutral conductor	No
Core identification	Red, White, Blue, Black, Green/Yellow
Dimensional characteristics	
Number of cores	5
Conductor cross-section	16 mm²
Earth conductor cross section	6 mm²
Nominal overall diameter	21.5 mm
Gland Size (A2 or A2F)	32
Approximate weight	0.9 kg/m
Electrical characteristics	
Max. DC resistance of the conductor at 20°C	1.15 Ohm/km
Rated Voltage Uo/U (Um)	0.6/ 1 (1.2) kV
Mechanical characteristics	
Cable flexibility	Rigid
Usage characteristics	

# **CORE COLOURS**

No. of Cores	Colour
4	RD, WH, BU, GNYE
5	RD, WH, BU, BK, GNYE

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	⊗	<b>⊗</b>	<b>(a)</b>	<b>****</b>			
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu	
10	73	68	58	67	67	34	
16	97	91	75	118	87	45	
25	131	122	100	153	114	62	
35	162	151	125	184	139	76	
50	198	185	150	218	166	-	
70	252	234	190	269	207	-	
95	311	289	230	323	249	-	
Air spaced from surface, unenclosed	<b>⊗</b> Air	Air touching, unenclosed			closed		
Buried direct	Buried in single-way duct				surrounded by ion, unenclosed		



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• Ambient Air Temperature: 30°C

• Soil Temperature: 15°C

· Soil Thermal Resistivity: 1.2 K.m/W

• Depth of Burial: 0.5 m

