

PVC Armoured Mains Cables

CU ARMAINS 4X 6

Contact

Sales and Customer Solutions
sales.nz@nexans.com

Nexans Ref.: HAMP11AA004CXEM

Country Ref.: 5161

Cu conductors, PVC insulation, Laid up, Extruded bedding, GSW armour, Black PVC sheath. 0.6/1 kV. Made to AS/NZS 5000.1.

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, e.g. switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc.



STANDARDS

National AS/NZS 5000.1

PVC Armoured Mains Cables

CU ARMAINS 4X 6

Contact

Sales and Customer Solutions
sales.nz@nexans.com

CHARACTERISTICS

Construction characteristics

Type of conductor	Circular, stranded
Conductor material	Copper
Insulation	PVC
Material of bedding	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Core identification	Red, White, Blue, Black
With Green/Yellow core	No
With smaller neutral conductor	No

Dimensional characteristics

Number of cores	4
Conductor cross-section	6 mm ²
Earth conductor cross section	2.5 mm ²
Nominal overall diameter	21.1 mm
Gland Size (CW or E1FW)	25
Approximate weight	0.96 kg/m
Neutral conductor section (when smaller)	- mm ²

Electrical characteristics

Permissible short circuit current conductor 1s	0.7 kA
Max. DC resistance of the conductor at 20°C	3.08 Ohm/km
Rated Voltage U ₀ /U (U _m)	0.6/ 1 (1.2) kV

Mechanical characteristics













Cable flexibility	Rigid
-------------------	-------

Usage characteristics

Max. conductor temperature in service	75 °C
---------------------------------------	-------

CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - THREE & FOUR CORE PVC ARMoured

Copper conductor Circular stranded except 25 mm² Shaped stranded Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm ²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu					
6	46	42	38	46	46	22					
	Air Spaced from Surface, Unenclosed		Air touching, unenclosed		Air enclosed		Buried direct		Buried in single-way duct		Cable surrounded by thermal insulation, unenclosed

Note

© Copyright Standards New Zealand 2012.

Content in this table and the typical New Zealand installation conditions are derived from AS/NZS 3008.1.2:2010 and has been reproduced or adapted with permission from Standards New Zealand under Copyright Licence 000926.

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.

Generated 3/11/21 www.nexans.co.nz Page 2 / 3

PVC Armoured Mains Cables

CU ARMAINS 4X 6

Contact

Sales and Customer Solutions
sales.nz@nexans.com

Please refer to the complete Standard for full details available for purchase from Standards New Zealand at www.standards.co.nz.

The values 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