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Cu conductor, PVC insulated, PVC sheath. 0.6/1 kV. Made to AS/NZS 5000.1

STANDARDS

Product AS/NZS 5000.1

Application

- Industrial and commercial applications (predominantly)
- Some domestic applications
- For use in various situations to supply the main power from the point of supply (either single or three phase application) to buildings, equipment, eg, switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc. Commonly used in Power Authority work.

CHARACTERISTICS

Construction characteristics

Sheath colour	Red
Conductor material	Copper
Type of conductor	Circular, stranded
Insulation	PVC
Outer sheath	PVC
Conductor flexibility	Class 2
Conductor shape	Circular
Insulation colour	White
With Green/Yellow core	No
With smaller neutral conductor	No

Dimensional characteristics

Conductor cross-section	16 mm ²
Nominal overall diameter	10.0 mm
Gland Size (A2 or A2F)	20
Approximate weight	0.23 kg/m
Neutral conductor section (when smaller)	- mm ²
Number of cores	1

Electrical characteristics

Max. DC resistance of the conductor at 20°C	1.15 Ohm/km
Permissible short circuit current conductor 1s	1.8 kA
Rated Voltage U ₀ /U (U _m)	0.6/ 1 (1.2) kV

Mechanical characteristics

Cable flexibility	Rigid
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Usage characteristics

Max. conductor temperature in service	75 °C
Packaging	-

CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - SINGLE CONDUCTOR PVC

Copper conductor - Circular stranded - Insulation PVC Aluminum conductor - Circular stranded except 240 mm²
Compact circular stranded - Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section															
[mm²]		Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
16		56	-	46	-	47	-	71	-	109	-	98	-	41	
	Air Spaced from Surface, Unenclosed						Air touching, unenclosed							Air enclosed	
	Buried direct						Buried in single-way duct							Buried in multi-way duct	
	Cable surrounded by thermal insulation, unenclosed														

Note

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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

CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - SINGLE CONDUCTOR PVC

Single Conductor PVC (three phase) PVC insulation Unarmoured Sheathed or unsheathed For cables up to and including 0.6/1 kV @ 50 Hz AC.

Conductor cross-section [mm ²]														
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
16	88	-	82	-	71	-	114	-	99	-	86	-	41	
	Air Spaced from Surface, Unenclosed			Air touching, unenclosed			Air enclosed							
	Buried direct			Buried in single-way duct			Buried in multi-way duct							
	Cable surrounded by thermal insulation, unenclosed													

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