

**CIRCULAR PVC**

2C + E SWA

 COPPER



**STANDARD** AS/NZS 5000.1

**VOLTAGE** 600/1000V

**CONDUCTOR** Copper 1.5 – 16.0mm2

**INSULATION** PVC, V-90

Red, Black, & Green/Yellow

**SHEATH** PVC, 5V-90

 Orange

**MAX. OPERATING TEMP.** 90 **°**C

## APPLICATION

For mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where mechanical damage may occur.

Suitable for glanding.

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| --- | --- | --- | --- | --- |
| **Item** **Number**  | **Conductor** | **Overall Diameter** | **Approx.****Mass****kg/km** | **Minimum** **Installed**Bending Radius**mm** |
| **mm2** | **(No./mm)** | **Minimum****mm** | **Maximum****mm** |
| DC320A | 1.5 | 7/0.50 | 12.9 | 13. 7 | 365 | 80 |
| DC340A | 2.5 | 7/0.67 | 15.1 | 16.0 | 425 | 85 |
| DC350A | 4 | 7/0.85 | 16.4 | 17.4 | 560 | 95 |
| DC360A | 6 | 7/1.04 | 17.5 | 18.5 | 620 | 100 |
| DC370A | 10 | 7/1.35 | 19.9 | 21.1 | 785 | 110 |
| DC380A | 16 | 7/1.70 | 22.0 | 23.1 | 1260 | 130 |

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| --- | --- | --- |
| **CONDUCTOR** | **CURRENT RATING (a)** | **ELECTRICAL CHARACTERISTICS** |
| **Nominal Area** **mm2** | **Unenclosed In Air**A | **Buried Direct****2ceburiednz**A | **Buried In Ducts** A | **Maximum** **DC Resistance @20°C****Ω/km** | **Maximum AC Resistance @90°C** **Ω/km** | **Equivalent Star Reactance** **Ω/km** | **Single Phase Voltage Drop****@90°C****mV/Am** |
| 1.5 | 18 | 21 | 21 | 13.60 | 17.3 | 0.111 | 34.7 |
| 2.5 | 26 | 30 | 30 | 7.41 | 9.45 | 0.102 | 18.9 |
| 4 | 34 | 39 | 39 | 4.61 | 5.88 | 0.102 | 11.8 |
| 6 | 44 | 50 | 50 | 3.08 | 3.93 | 0.0967 | 7.9 |
| 10 | 60 | 66 | 66 | 1.83 | 2.33 | 0.0906 | 4.7 |
| 16 | 80 | 114 | 86 | 1.15 | 1.47 | 0.0861 | 2.95 |

(a) Based on 40**°**C ambient air temperature and where applicable, burial depth of 0.5m, soil temperature of 25**°**C and soil resistivity of 1.2**°**C.m/W.

The above information is from the following sources: AS/NZS 3008.1.1:2009 (tables 10, 30, 35, 42)

 AS 1125:2001 (table 2.3)

For installation with thermal insulation refer to AS/NZS 3008 for de-rating factors.

Do not put in direct contact with polystyrene, polyurethane or similar thermal insulation materials.

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| **ACTIVE / CONDUCTOR** | **EARTH** | **DIAMETER UNDER ARMOUR** | **ARMOUR WIRE** |
| **Nominal Area.****mm2** | **Number & Diameter****of Wires****No/mm** | **Nominal Diameter****mm** | **Minimum Insulation****Thickness****mm** | **Nom Area.****mm2** | Number & Diameter**of Wires****No/mm** | **Minimum. Insulation****Thickness****mm** | **mm** | **Nominal Diameter****mm** |
| 1.5 | 7/0.50 | 1.5 | 0.6 | 1.5 | 7/0.50 | 0.7 | 9.8 | 0.9 |
| 2.5 | 7/0.67 | 2.0 | 0.7 | 2.5 | 7/0.67 | 0.8 | 9.0 | 0.9 |
| 4 | 7/0.85 | 2.55 | 0.8 | 2.5 | 7/0.67 | 0.8 | 11.4 | 0.9 |
| 6 | 7/1.04 | 3.12 | 0.8 | 2.5 | 7/0.67 | 0.8 | 12.5 | 0.9 |
| 10 | 7/1.35 | 4.05 | 1.0 | 4.0 | 7/0.85 | 1.0 | 14.2 | 1.25 |
| 16 | 7/1.70 | 5.10 | 1.0 | 6.0 | 7/1.04 | 1.0 | 16.3 | 1.25 |

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