

**FLAT TPS**

2C + E

COPPER

Flat_TPS00163



## APPLICATION

Easi-peel sheath for general wiring unenclosed, enclosed in conduit, buried direct or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage.

**STANDARD** AS/NZS 5000.2

**VOLTAGE** 450/750V

**CONDUCTOR** Copper 1 - 16mm2

**INSULATION** PVC, V-90

Red, Black & Green/Yellow

**SHEATH** PVC, 3V-90

White

**MAX. OPERATING TEMP.** 90 **°**C

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item**  **Number** | **Conductor** | | **Overall Diameter** | **Approx.**  **Mass**  **kg/km** | **Minimum**  **Installed**  **Bending Radius**  **mm** |
| **mm2** | **(No./mm)** | **Nominal**  **mm** |
| DC309 | 1 | 1/1.13 | 4.5 x 9.5 | 85 | 55 |
| DC329 | 1.5 | 7/0.50 | 4.7 x 10.2 | 115 | 65 |
| DC339 | 2.5 | 1/1.78 | 5.8 x 12.0 | 140 | 70 |
| DC349 | 2.5 | 7/0.67 | 5.5 x 12.4 | 150 | 75 |
| DC359 | 4 | 7/0.85 | 6.5 x 14.0 | 220 | 85 |
| DC369 | 6 | 7/1.04 | 7.1 x 15.2 | 270 | 95 |
| DC379 | 10 | 7/1.35 | 8.5 x 18.6 | 440 | 115 |
| DC389 | 16 | 7/1.70 | 10.0 x 21.3 | 500 | 130 |

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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CONDUCTOR** | **CURRENT RATING (a)** | | | **ELECTRICAL CHARACTERISTICS** | | | |
| **Nominal Area**  **mm2** | **Unenclosed In Air**    **A** | **Surrounded by thermal insulation**    **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**  **mV/Am** |
| 1 (1/1.13) | 14 | 7 | 17 | 21.2 | 27.0 | 0.119 | 54.1 |
| 1.5 (7/0.50) | 18 | 9 | 21 | 13.6 | 17.3 | 0.111 | 34.7 |
| 2.5 (7/0.67) | 26 | 13 | 30 | 7.41 | 9.45 | 0.102 | 18.9 |
| 2.5 (1/1.78) | 26 | 13 | 30 | 7.28 | 9.45 | 0.102 | 18.9 |
| 4 (7/0.85) | 34 | 17 | 39 | 4.61 | 5.88 | 0.102 | 11.8 |
| 6 (7/1.04) | 44 | 22 | 50 | 3.08 | 3.93 | 0.0967 | 7.85 |
| 10 (7/1.35) | 60 | 30 | 66 | 1.83 | 2.33 | 0.0906 | 4.68 |
| 16 (7/1.70) | 80 | 40 | 114 | 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.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ACTIVE / CONDUCTOR** | | | **EARTH CONDUCTOR** | | |
| **Nominal Area**  **mm2** | **Nominal Diameter**  **mm** | **Min Insulation Thickness**  **mm** | **Nominal Area**  **mm2** | **Number & Diameter of Wires No/mm** | **Min Insulation**  **Thickness**  **mm** |
| 1 (1/1.13) | 1.1 | 0.6 | 1.0 | 7/0.50 | 0.6 |
| 1.5 (7/0.50) | 1.5 | 0.6 | 1.5 | 7/0.50 | 0.6 |
| 2.5 (7/0.67) | 2.0 | 0.7 | 2.5 | 7/0.67 | 0.7 |
| 2.5 (1/1.78) | 1.8 | 0.7 | 2.5 | 7/0.67 | 0.7 |
| 4 (7/0.85) | 2.5 | 0.8 | 2.5 | 7/0.67 | 0.7 |
| 6 (7/1.04) | 3.1 | 0.8 | 2.5 | 7/0.67 | 0.7 |
| 10 (7/1.35) | 3.9 | 1.0 | 4.0 | 7/0.85 | 0.8 |
| 16 (7/1.70) | 4.9 | 1.0 | 6.0 | 7/1.04 | 0.8 |

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