

**FLAT TPS**

TWIN CORE COPPER FIRE ALARM





## APPLICATION

Easi-peel sheath for general wiring, unenclosed, 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

**SHEATH** PVC, 3V-90

Red Sheath for Fire Alarm

**MAX. OPERATING TEMP.** 90 **°**C

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Item** **Number**  | **Insulation****Colour** | **Conductor** | **Overall Diameter** | **Approx.****Mass****kg/km** | **Minimum** **Installed****Bending Radius****mm** |
| **mm2** | **(No./mm)** | **Nominal****mm** |
| DC209 F/A | Red+Black | 1 | 32/0.20 | 4.3 x 6.7 | 60 | 40 |
|  |  |  |  |  |  |  |
| DC229 F/A | Red+Black | 1.5 | 7/0.50 | 4.7 x 7.4 | 80 | 50 |
|  |  |  |  |  |  |  |
| DC249 F/A | Red+Black | 2.5 | 7/0.67 | 5.5 x 9.0 | 100 | 55 |
|  |  |  |  |  |  |  |
| DC259 F/A | Red+Black | 4 | 7/0.85 | 6.5 x 10.6 | 140 | 65 |
|  |  |  |  |  |  |  |
| DC269 F/A | Red+Black | 6 | 7/1.04 | 7.0 x 11.7 | 200 | 75 |
|  |  |  |  |  |  |  |
| DC279 F/A | Red+Black | 10 | 7/1.35 | 8.5 x 14.4 | 400 | 90 |
|  |  |  |  |  |  |  |
| DC289 F/A | Red+Black | 16 | 7/1.70 | 9.7 x 16.7 | 600 | 100 |

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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****@90°C****mV/Am** |
| 1 (32/0.20) | 14 | 7 | 17 | 19.5 | 27.0 | 0.119 | 54.1 |
| 1.5 (7/0.50) | 18 | 9 | 22 | 13.6 | 17.3 | 0.111 | 34.7 |
| 2.5 (7/0.67) | 26 | 13 | 31 | 7.41 | 9.45 | 0.102 | 18.9 |
| 2.5 (1/1.78) | 26 | 13 | 31 | 7.28 | 9.45 | 0.102 | 18.9 |
| 4 | 34 | 17 | 40 | 4.61 | 5.88 | 0.102 | 11.8 |
| 6 | 44 | 22 | 51 | 3.08 | 3.93 | 0.0967 | 7.85 |
| 10 | 60 | 30 | 68 | 1.83 | 2.33 | 0.0906 | 4.68 |
| 16 | 80 | 40 | 88 | 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, 2.4)

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.

***DOMINION WIRE & CABLES LTD.***

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