

**SDI**

SINGLE CORE COPPER



1CTPS

## 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.

Suitable for glanding.

**STANDARD** AS/NZS 5000.2

**VOLTAGE** 450/750V

**CONDUCTOR** Copper 1 – 25mm²

**INSULATION** PVC, V-90

Black, Red or White

**SHEATH** PVC, 3V-90

White (25mm² White or Black)

**MAX. OPERATING TEMP.** 90oC

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Item Number*** | ***Conductor*** | | ***Overall Diameter*** | | ***Approx. Mass*** | ***Minimum Installed Bending Radius*** |
|  | ***mm2*** | ***(No./mm)*** | ***Minimum (mm)*** | ***Maximum (mm)*** | ***Kg/Km*** | ***mm*** |
| DC109/y | 1 | 1/1.13 | 3.9 | 4.2 | 20 | 20 |
| DC129/y | 1.5 | 7/0.50 | 4.3 | 4.6 | 25 | 20 |
| DC149/y | 2.5 | 7/0.67 | 5.0 | 5.3 | 35 | 25 |
| DC159/y | 4 | 7/0.85 | 5.9 | 6.2 | 55 | 30 |
| DC169/y | 6 | 7/1.04 | 6.4 | 6.8 | 70 | 35 |
| DC179/y | 10 | 7/1.35 | 7.6 | 8.1 | 120 | 40 |
| DC189/y | 16 | 7/1.70 | 8.9 | 9.4 | 180 | 45 |
| DC199/y | 25 | 19/1.35 | 11.0 | 11.5 | 285 | 60 |

y= 1 for Black

y= 2 for Red

y= 3 for White

DODOMINION CABLES – LIGHTING FIJI AND THE PACIFIC A5

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CONDUCTOR** | **CURRENT RATING (a)** | | | **ELECTRICAL CHARACTERISTICS** | | | |
| **Nominal Area**  **mm2** | **Unenclosed In Air**    **A** | **Buried**  **Direct**    **A** | **Buried**  **In Ducts**    **A** | **Maximum DC Resistance @20°C**  **Ω/km** | **Maximum AC Resistance @90°C**  **Ω/km** | **Equivalent Star Reactance**  **(Trefoil)**  **Ω/km** | **3 Phase Voltage Drop**  **(Trefoil)**  **@90°C**  **mV/Am (b)** |
| 1 | 13 | 18 | 18 | 21.2 | 27.0 | 0.168 | 46.8 |
| 1.5 | 16 | 23 | 23 | 13.6 | 17.3 | 0.157 | 30.0 |
| 2.5 | 23 | 32 | 32 | 7.41 | 9.45 | 0.143 | 16.4 |
| 4 | 31 | 41 | 41 | 4.61 | 5.88 | 0.137 | 10.2 |
| 6 | 40 | 52 | 52 | 3.08 | 3.93 | 0.128 | 6.81 |
| 10 | 54 | 69 | 69 | 1.83 | 2.33 | 0.118 | 4.05 |
| 16 | 72 | 122 | 89 | 1.15 | 1.47 | 0.111 | 2.55 |
| 25 | 97 | 158 | 116 | 0.727 | 0.927 | 0.106 | 1.62 |

1. 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.

(b) For single phase voltage drop, multiple by 1.155.

The above information is from the following sources: AS/NZS 3008.1.1:2009 (tables 4, 30, 34, 40)

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.

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

# QUALITY CABLE MANUFACTURES, DISTRIBUTORS AND EXPORTERS

**LOT 3, KINGS ROAD, YALALEVU, BA. P.O. BOX 1562, BA, FIJI.**

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DOMINION CABLES – LIGHTING FIJI AND THE PACIFIC A6



**SDI**

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1CTPS

## 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.

Suitable for glanding.

**STANDARD** AS/NZS 5000.1

**VOLTAGE** 600/1000V

**CONDUCTOR** Copper 1 – 630mm²

**INSULATION** PVC, V-90

Black, Red or White

**SHEATH** PVC, 5V-90

Orange

**MAX. OPERATING TEMP.** 90oC

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Item Number*** | ***Conductor*** | | ***Overall Diameter*** | | ***Approx. Mass*** | ***Minimum Installed Bending Radius*** |
|  | ***mm2*** | ***(No./mm)*** | ***Minimum (mm)*** | ***Maximum (mm)*** | ***Kg/Km*** | ***mm*** |
| DC109/y | 1 | 1/1.13 | 5.6 | 6.0 | 50 | 35 |
| DC129/y | 1.5 | 7/0.50 | 5.9 | 6.4 | 60 | 40 |
| DC149/y | 2.5 | 7/0.67 | 6.4 | 6.8 | 80 | 40 |
| DC159/y | 4 | 7/0.85 | 7.3 | 7.8 | 110 | 50 |
| DC169/y | 6 | 7/1.04 | 7.8 | 8.3 | 140 | 50 |
| DC179/y | 10 | 7/1.35 | 8.7 | 9.2 | 170 | 55 |
| DC189/y | 16 | 7/1.70 | 9.7 | 10.3 | 230 | 60 |
| DC199/y | 25 | 19/1.35 | 11.9 | 12.5 | 370 | 75 |
| DC1109/y | 35 | 19/1.53 | 12.9 | 13.4 | 450 | 80 |
| DC1119/y | 50 | 19/1.78 | 14.5 | 15.1 | 600 | 90 |
| DC1129/y | 70 | 19/2.14 | 16.3 | 16.9 | 800 | 100 |
| DC1139/y | 95 | 37/1.78 | 18.7 | 19.3 | 1100 | 115 |
| DC1149/y | 120 | 37/2.03 | 20.2 | 21.5 | 1300 | 120 |
| DC1159/y | 150 | 37/2.25 | 22.4 | 23.7 | 1600 | 130 |
| DC1169/y | 185 | 37/2.52 | 24.8 | 26.3 | 2060 | 145 |
| DC1179/y | 240 | 61/2.25 | 28.1 | 29.7 | 2550 | 165 |
| DC1189/y | 300 | 61/2.52 | 31.1 | 32.8 | 3150 | 180 |
| DC1199/y | 400 | 61/2.85 | 34.7 | 36.5 | 4300 | 200 |
| DC11109/y | 500 | 61/3.20 | 38.4 | 40.4 | 5300 | 220 |
| DC1119/y | 630 | 90/3.00 | 42.6 | 44.8 | 6710 | 250 |

y= 1 for Black

y= 2 for Red

y= 3 for White

DOMINION CABLES – LIGHTING FIJI AND THE PACIFIC A7

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CONDUCTOR** | **CURRENT RATING (a)** | | | **ELECTRICAL CHARACTERISTICS** | | | |
| **Nominal Area**  **mm2** | **Unenclosed In Air**    **A** | **Buried**  **Direct**    **A** | **Buried**  **In Ducts**    **A** | **Maximum DC Resistance @20°C**  **Ω/km** | **Maximum AC Resistance @90°C**  **Ω/km** | **Equivalent Star Reactance**  **(Trefoil)**  **Ω/km** | **3 Phase Voltage Drop**  **(Trefoil)**  **@90°C**  **mV/Am (b)** |
| 1 | 13 | 18 | 18 | 21.2 | 27.0 | 0.168 | 46.8 |
| 1.5 | 16 | 23 | 23 | 13.6 | 17.3 | 0.157 | 30.0 |
| 2.5 | 23 | 32 | 32 | 7.41 | 9.45 | 0.143 | 16.4 |
| 4 | 31 | 41 | 41 | 4.61 | 5.88 | 0.137 | 10.2 |
| 6 | 40 | 52 | 52 | 3.08 | 3.93 | 0.128 | 6.81 |
| 10 | 54 | 69 | 69 | 1.83 | 2.33 | 0.118 | 4.05 |
| 16 | 72 | 122 | 89 | 1.15 | 1.47 | 0.111 | 2.55 |
| 25 | 97 | 158 | 116 | 0.727 | 0.927 | 0.106 | 1.62 |
| 35 | 119 | 190 | 139 | 0.524 | 0.668 | 0.101 | 1.17 |
| 50 | 146 | 225 | 168 | 0.387 | 0.494 | 0.0962 | 0.872 |
| 70 | 184 | 277 | 206 | 0.268 | 0.342 | 0.0917 | 0.615 |
| 95 | 230 | 332 | 252 | 0.193 | 0.247 | 0.0904 | 0.457 |
| 120 | 267 | 378 | 287 | 0.153 | 0.197 | 0.087 | 0.373 |
| 150 | 308 | 424 | 329 | 0.124 | 0.160 | 0.0868 | 0.316 |
| 185 | 358 | 480 | 373 | 0.0991 | 0.129 | 0.0862 | 0.269 |
| 240 | 428 | 556 | 438 | 0.0754 | 0.0991 | 0.0847 | 0.227 |
| 300 | 495 | 628 | 496 | 0.0601 | 0.0803 | 0.0839 | 0.202 |
| 400 | 577 | 713 | 575 | 0.0470 | 0.0646 | 0.0829 | 0.183 |
| 500 | 668 | 805 | 649 | 0.0366 | 0.0525 | 0.082 | 0.170 |
| 630 | 770 | 904 | 750 | 0.0283 | 0.0432 | 0.080 | 0.159 |

(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

(b) For single phase voltage drop, multiply by 1.155.

The above information is from the following sources: AS/NZS 3008.1.1:2009 (tables 4, 30, 34, 40)

AS 1125:2001 (table 2.3)

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

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