

# PVC CABLES 450/750V

## 01. SDI SINGLE CORE COPPER



Easy-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              | : 450/750 V                        |
| CONDUCTOR            | : Copper 1-16 mm <sup>2</sup>      |
| INSULATION           | : PVC, V-90<br>Black, Red or White |
| SHEATH               | : PVC, 3V -90<br>White             |
| MAX. OPERATING TEMP. | : 90°C                             |

| Conductor       |          | Overall Diameter |          | Approx.<br>Mass<br>(kg/km) |
|-----------------|----------|------------------|----------|----------------------------|
| mm <sup>2</sup> | (No./mm) | Min (mm)         | Max (mm) |                            |
| 1               | 1/1.13   | 3.9              | 4.2      | 50                         |
| 1.5             | 7/0.50   | 4.3              | 4.6      | 60                         |
| 2.5             | 7/0.67   | 5.0              | 5.3      | 80                         |
| 4               | 7/0.85   | 5.9              | 6.2      | 110                        |
| 6               | 7/1.04   | 6.4              | 6.8      | 140                        |
| 10              | 7/1.35   | 7.6              | 8.1      | 170                        |
| 16              | 7/1.70   | 8.9              | 9.4      | 230                        |

# PVC CABLES 450/750V

## 02. FLAT TPS TWIN CORE COPPER



Easy-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              | : 450/750 V                               |
| CONDUCTOR            | : Copper 1-16 mm <sup>2</sup>             |
| INSULATION           | : PVC, V-90<br>Red & Black or Red & White |
| SHEATH               | : PVC, 3V -90<br>White                    |
| MAX. OPERATING TEMP. | : 90°C                                    |

| Insulation Colour | Conductor       |          | Overall Diameter Nominal (mm) | Approx. Mass (kg/km) |
|-------------------|-----------------|----------|-------------------------------|----------------------|
|                   | mm <sup>2</sup> | (No./mm) |                               |                      |
| Red+White         | 1               | 1/1.13   | 4.3X6.5                       | 60                   |
| Red+White         | 1.5             | 7/0.50   | 4.9X7.6                       | 80                   |
| Red+White         | 2.5             | 7/0.67   | 5.5X9.0                       | 100                  |
| Red+White         | 2.5             | 1/1.78   | 5.4X8.6                       | 95                   |
| Red+White         | 4               | 7/0.85   | 6.5X10.6                      | 140                  |
| Red+Black         | 10              | 7/1.35   | 8.5X14.4                      | 400                  |
| Red+Black         | 16              | 7/1.70   | 9.7X16.7                      | 600                  |

# PVC CABLES 450/750V

## 03. FLAT TPS 2 CORE + EARTH COPPER



Easy-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              | 450/750 V                                |
| CONDUCTOR            | Copper 1-16 mm <sup>2</sup>              |
| INSULATION           | PVC, V-90<br>Red, Black & Green / Yellow |
| SHEATH               | PVC, 3V -90<br>White                     |
| MAX. OPERATING TEMP. | 90°C                                     |

| Conductor       |          | Overall Diameter<br>Nominal (mm) | Approx.<br>Mass (kg/km) |
|-----------------|----------|----------------------------------|-------------------------|
| mm <sup>2</sup> | (No./mm) |                                  |                         |
| 1               | 1/1.13   | 4.8X9.7                          | 85                      |
| 1.5             | 7/0.50   | 4.7X10.2                         | 115                     |
| 2.5             | 1/1.78   | 5.7X12.4                         | 140                     |
| 2.5             | 7/0.67   | 5.5X12.4                         | 150                     |
| 4               | 7/0.85   | 6.5X14.0                         | 220                     |
| 6               | 7/1.04   | 7.1X15.2                         | 270                     |
| 10              | 7/1.35   | 8.5X18.6                         | 440                     |
| 16              | 7/1.70   | 10.0X21.3                        | 500                     |

# PVC CABLES 600/1000 V

## 04. BUILDING WIRE SINGLE CORE COPPER



For separate earth conductors, For switchboard and control panel wiring.  
For fixed wiring within other enclosures or apparatus where the cable is not accessible without the use of tools.

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| STANDARD             | AS/NZS 5000.1                                            |
| VOLTAGE              | 600/1000 V                                               |
| CONDUCTOR            | Copper 1-500 mm <sup>2</sup>                             |
| INSULATION           | PVC, V-90<br>Black, Blue, Red, White<br>or Green/ Yellow |
| MAX. OPERATING TEMP. | 90°C                                                     |

| Conductor       |          | Overall Diameter |          | Approx.<br>Mass<br>(kg/km) |
|-----------------|----------|------------------|----------|----------------------------|
| mm <sup>2</sup> | (No./mm) | Min (mm)         | Max (mm) |                            |
| 1               | 1/1.13   | 2.7              | 2.9      | 20                         |
| 1.5             | 7/0.50   | 3.1              | 3.3      | 25                         |
| 2.5             | 1/1.78   | 3.4              | 3.6      | 35                         |
| 2.5             | 7/0.67   | 3.6              | 3.8      | 35                         |
| 4               | 7/0.85   | 4.5              | 4.8      | 55                         |
| 6               | 7/1.04   | 5.1              | 5.4      | 70                         |
| 10              | 7/1.35   | 6.0              | 6.3      | 120                        |
| 16              | 7/1.70   | 7.1              | 7.4      | 180                        |
| 25              | 19/1.35  | 9.1              | 9.5      | 285                        |
| 35              | 19/1.53  | 10.1             | 10.4     | 370                        |
| 50              | 19/1.78  | 11.6             | 12.0     | 515                        |
| 70              | 19/2.14  | 13.4             | 13.8     | 730                        |
| 95              | 19/2.52  | 15.6             | 16.0     | 980                        |
| 120             | 37/2.03  | 17.4             | 17.8     | 1250                       |
| 150             | 37/2.25  | 19.3             | 19.7     | 1500                       |
| 185             | 37/2.52  | 21.6             | 22.0     | 1900                       |
| 240             | 61/2.25  | 24.7             | 25.0     | 2480                       |
| 300             | 61/2.52  | 27.5             | 28.0     | 3100                       |
| 400             | 61/2.85  | 30.9             | 31.5     | 3950                       |
| 500             | 61/3.20  | 34.4             | 35.0     | 4960                       |

# PVC CABLES 600/1000 V

## 05. SDI SINGLE CORE COPPER PVC/PVC



Easy-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 glandings.

|                      |                              |
|----------------------|------------------------------|
| STANDARD             | AS/NZS 5000.1                |
| VOLTAGE              | 600/1000 V                   |
| CONDUCTOR            | Copper 1-500 mm <sup>2</sup> |
| INSULATION           | PVC, V-90                    |
|                      | Black, Red or White          |
| SHEATH               | PVC, 5V -90                  |
|                      | Orange                       |
| MAX. OPERATING TEMP. | 90 °C                        |

| Conductor       |          | Overall Diameter |          | Approx.<br>Mass (kg/km) |
|-----------------|----------|------------------|----------|-------------------------|
| mm <sup>2</sup> | (No./mm) | Min (mm)         | Max (mm) |                         |
| 1               | 1/1.13   | 5.6              | 6.0      | 50                      |
| 1.5             | 7/0.50   | 5.9              | 6.4      | 60                      |
| 2.5             | 7/0.67   | 6.4              | 6.8      | 80                      |
| 2.5             | 1/1.78   | 6.2              | 6.7      | 80                      |
| 4               | 7/0.85   | 7.3              | 7.8      | 110                     |
| 6               | 7/1.04   | 7.8              | 8.3      | 140                     |
| 10              | 7/1.35   | 8.7              | 9.2      | 170                     |
| 16              | 7/1.70   | 9.7              | 10.3     | 230                     |
| 25              | 19/1.35  | 11.9             | 12.5     | 370                     |
| 35              | 19/1.53  | 12.9             | 13.4     | 450                     |
| 50              | 19/1.78  | 14.5             | 15.1     | 600                     |
| 70              | 19/2.14  | 16.3             | 16.9     | 800                     |
| 95              | 19/2.52  | 18.7             | 19.3     | 1100                    |
| 120             | 37/2.03  | 20.2             | 21.5     | 1300                    |
| 150             | 37/2.25  | 22.4             | 23.7     | 1600                    |
| 185             | 37/2.52  | 24.8             | 26.3     | 2060                    |
| 240             | 61/2.25  | 28.1             | 29.7     | 2550                    |
| 300             | 61/2.52  | 31.1             | 32.8     | 3150                    |
| 400             | 61/2.85  | 34.7             | 36.5     | 4300                    |
| 500             | 61/3.20  | 38.4             | 40.4     | 5300                    |

# PVC CABLES 450/750V

## 25. FIRE ALARM TWIN FLAT COPPER



Easy-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              | 450/750 V                        |
| CONDUCTOR            | Copper 1-16 mm <sup>2</sup>      |
| INSULATION MATERIAL  | V-90<br>Red, Black or Red, White |
| SHEATH MATERIAL      | 3V-90<br>Red                     |
| MAX. OPERATING TEMP. | 90°C                             |

| Conductor                       |                                           | Cable                 |           |                            |
|---------------------------------|-------------------------------------------|-----------------------|-----------|----------------------------|
| Nominal area<br>mm <sup>2</sup> | Number & Diameter<br>of wires<br>(No./mm) | Overall Diameter (mm) |           |                            |
|                                 |                                           | Min<br>mm             | Max<br>mm | Approx.<br>Mass<br>(kg/km) |
| 1                               | 32/0.20                                   | 4.3                   | 6.8       | 56                         |
| 1.5                             | 7/0.50                                    | 4.5                   | 7.2       | 66                         |
| 2.5                             | 7/0.67                                    | 5.4                   | 8.8       | 100                        |
| 4                               | 7/0.85                                    | 6.4                   | 10.5      | 153                        |
| 6                               | 7/1.04                                    | 6.9                   | 11.6      | 200                        |
| 10                              | 7/1.35                                    | 8.5                   | 14.5      | 330                        |
| 16                              | 7/1.70                                    | 9.7                   | 16.8      | 490                        |