# PVC INSULATED UNSHEATHED CABLES

These are single core PVC insulated unsheathed cables as per AS/NZS 5000.1 intended for use in electrical installations at working voltages up to and including 0.6/1 (1.2) kV.

## CONSTRUCTION

Conductor:   Plain annealed copper conductor complying with AS/NZS 1125, class 1 or 2.

(Tinned annealed copper conductor available on request).

Insulation:    V – 90 PVC

## CHARACTERISTICS

| General | Single core PVC insulated unsheathed cables manufactured to AS/NZS 5000.1 |
|---|---|
| Voltage grade | 0.6/1 (1.2) kV |
| Cable operating temperature | 90°C maximum |
| Core colours | Red, White, Blue, Black, Green/Yellow (Other Colours on request). |
| Packaging | 100 / 500 meter reels: Other packaging and lengths available on request. |
| Key Applications: | Fixed installations in power and lighting circuits at working voltages up to and including 0.6/1 (1.2) kV |

# TECHNICAL DATA

Single core, 0.6/1kV V-90 insulated, to AS/NZS 5000.1 (unsheathed), copper conductors, 90°C

| Nominal conductor area | Conductor Type | Nominal Insulation thickness | Nominal overall diameter | Approximate mass | Maximum DC resistance at 20°C |
|---|---|---|---|---|---|
| mm² | mm² | mm | mm | kg/100m | Ω/Km |
| 0.5 | Class-1 | 0.8 | 2.4 | 1.0 | 36.0 |
| 1.0 | Class-1 | 0.8 | 2.8 | 1.6 | 18.1 |
| 1.0 | Class-2 | 0.8 | 2.9 | 1.7 | 21.2 |
| 1.5 | Class-2 | 0.8 | 3.1 | 2.0 | 13.6 |
| 2.5 | Class-2 | 0.8 | 3.6 | 3.2 | 7.41 |
| 4 | Class-2 | 1.0 | 4.5 | 5.1 | 4.61 |
| 6 | Class-2 | 1.0 | 5.1 | 7.1 | 3.08 |
| 10 | Class-2 | 1.0 | 6.0 | 11 | 1.83 |
| 16 | Class-2 | 1.0 | 6.9 | 17 | 1.15 |
| 25 | Class-2 | 1.2 | 8.4 | 26 | 0.727 |
| 35 | Class-2 | 1.2 | 9.4 | 35 | 0.524 |
| 50 | Class-2 | 1.4 | 10.9 | 48 | 0.387 |
| 70 | Class-2 | 1.4 | 12.4 | 67 | 0.268 |
| 95 | Class-2 | 1.6 | 15.2 | 96 | 0.193 |
| 120 | Class-2 | 1.6 | 17.3 | 118 | 0.153 |
| 150 | Class-2 | 1.8 | 18.8 | 144 | 0.124 |
| 185 | Class-2 | 2.0 | 21.1 | 180 | 0.0991 |
| 240 | Class-2 | 2.2 | 24.1 | 236 | 0.0754 |
| 300 | Class-2 | 2.4 | 26.9 | 296 | 0.0601 |
| 400 | Class-2 | 2.6 | 30.6 | 376 | 0.0470 |
| 500 | Class-2 | 2.8 | 34.1 | 477 | 0.0366 |
| 630 | Class-2 | 2.8 | 37.8 | 613 | 0.0283 |

Bending Radius requirements

| Overall diameter of cable (D) | Minimum Bending Radius -mm (Fixed Installation) |
|---|---|
| Up to 10mm | 3 x Overall Diameter |
| Exceeding 10mm but less than 25mm | 4 x Overall Diameter |
| Exceeding 25mm | 6 x Overall Diameter |