



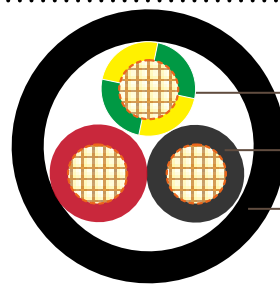
## PVC Insulated, PVC Sheathed 2 core+E Round Cables, 450/750V

### Application

These cables are used for mains, submains and subcircuits unenclosed, enclosed in conduit, buried direct or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

### Standard

AS/NZS 5000.1  
AS/NZS 3008  
AS/NZS 1125



Plain annealed copper conductor  
PVC insulation  
PVC sheath

### Cable Construction

**Conductor:** Plain annealed copper.

**Insulation:** Polyvinylchloride compound PVC V-90

**Insulation colour:** 2C + E - Red, Black, Green/yellow

**Sheath:** Polyvinylchloride compound PVC 5V-90

**Sheath colour:** Black, other colors are available upon request

### Technical Characteristics

| Conductor | Current Ratings           |                       |                         | Electrical Characteristics                     |   |                     |  |
|-----------|---------------------------|-----------------------|-------------------------|--|---|---------------------|--|
|           | Unenclosed<br>In Air<br>A | Buried<br>Direct<br>A | Buried<br>In Ducts<br>A | Maximum<br>DC<br>Resistance<br>@20°C<br>Ohm/km | Maximum AC<br>Resistance<br>@75°C<br>Ohm/km | Reactance<br>Ohm/km | Single Phase<br>Voltage Drop<br>@75°C<br>mV/Am |
| 1.5       | 21                        | 31                    | 24                      | 13.6   | 16.5  | 0.111               | 33.0   |
| 2.5       | 30                        | 44                    | 34                      | 7.41   | 9.01  | 0.102               | 18.0   |
| 4         | 39                        | 57                    | 44                      | 4.61   | 5.61  | 0.102               | 11.2   |
| 6         | 50                        | 72                    | 56                      | 3.08   | 3.75  | 0.097               | 7.50   |



### Cable Parameter

| Nom. conductor area mm <sup>2</sup> | Conductor No./ OD | Nom. insulation thickness mm | Nom. earth conductor area mm <sup>2</sup> | Nom. sheath thickness mm | Nom. overall diameter mm | Approx. mass kg/km |
|-------------------------------------|-------------------|------------------------------|---|--------------------------|--------------------------|--------------------|
| 1.5                                 | 7/0.50            | 0.6                          | 1.5                                       | 0.9                      | 8.5                      | 110                |
| 2.5                                 | 7/0.67            | 0.7                          | 2.5                                       | 1                        | 10.1                     | 170                |
| 4                                   | 7/0.85            | 0.8                          | 2.5                                       | 1.1                      | 11.2                     | 220                |
| 6                                   | 7/1.04            | 1.0                          | 2.5                                       | 1.1                      | 12.3                     | 250                |