



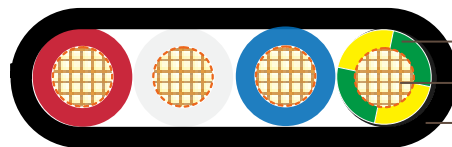
PVC Insulated, 3 Core + E Flat Cables, 450/750V

Application

These cables are used 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. Suitable for balanced three phase applications with E.

Standard

AS/NZS 5000.2,
AS 1125, AS 3808



PVC insulation
Plain annealed copper conductor
PVC outer jacket

Cable Construction

Conductor: Plain annealed copper

Maximum operating temperature: 90°C

Insulation: PVC V90

Insulation colour: Red, White, Blue, Green/yellow

Sheath: Polyvinylchloride compound PVC 3V90

Sheath colour: White, other colors are available upon request

Technical Characteristics

| Conductor Nominal Area mm ² | Current Ratings | | | Electrical Characteristics | | | |
|--|---------------------|------------------------------------|-------------------|------------------------------------|------------------------------------|------------------|--------------------------------|
| | Unenclosed In Air A | Surrounded by thermal insulation A | Buried In Ducts A | Maximum DC Resistance @20°C Ohm/km | Maximum AC Resistance @75°C Ohm/km | Reactance Ohm/km | Three Phase Voltage Drop mV/Am |
| 1 | 14 | 7 | 17 | 18.1 | 27.0 | 0.119 | 46.8 |
| 1.5 | 17 | 9 | 21 | 13.6 | 17.3 | 0.111 | 30.0 |
| 2.5 | 25 | 13 | 29 | 7.41 | 9.45 | 0.102 | 16.4 |
| 4 | 33 | 17 | 37 | 4.61 | 5.88 | 0.102 | 10.2 |
| 6 | 42 | 22 | 47 | 3.08 | 3.93 | 0.0967 | 6.8 |
| 10 | 58 | 29 | 63 | 1.83 | 2.33 | 0.0906 | 4.05 |
| 16 | 78 | 39 | 81 | 1.15 | 1.47 | 0.0861 | 2.55 |



Cable Parameter

| Nom. conductor area mm ² | Conductor No./ OD | Nom. insulation thickness mm | earth conductor area mm ² | Nom. sheath thickness mm | Nom. overall diameter mm | | Approx. mass kg/km |
|-------------------------------------|-------------------|------------------------------|--------------------------------------|--------------------------|--------------------------|-----------|--------------------|
| | | | | | Min | Max | |
| 1.0 | 1/1.13 | 0.6 | 1.0 | 0.9 | 11.1x4.1 | 11.8x4.4 | 95 |
| 1.5 | 7/0.50 | 0.6 | 1.5 | 0.9 | 12.6x4.5 | 13.3x4.8 | 120 |
| 2.5 | 7/0.67 | 0.7 | 2.5 | 1 | 15.6x5.4 | 16.4x5.7 | 190 |
| 4 | 7/0.85 | 0.8 | 2.5 | 1.1 | 17.7x6.2 | 18.6x6.7 | 290 |
| 6 | 7/1.04 | 1.0 | 2.5 | 1.1 | 19.5x6.9 | 20.4x7.3 | 370 |
| 10 | 7/1.35 | 1.0 | 4 | 1.2 | 24.0x8.2 | 24.5x8.7 | 540 |
| 16 | 7/1.70 | 1.0 | 6 | 1.3 | 27.8x9.5 | 29.1x10.0 | 820 |