



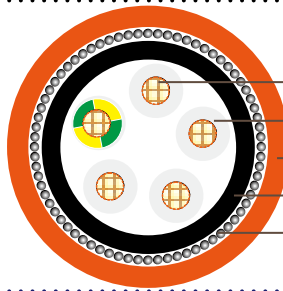
PVC Insulated, PVC Sheathed Multicore+E Armored Control Cables 0.6/1kV

Application

These cables are used for control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where mechanical damage may occur.

Standard

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



- Plain annealed copper conductor
- PVC insulation
- PVC sheath
- PVC bedding
- Galvanised steel wire armour

Cable Construction

Conductor: Plain annealed copper.

Insulation: Polyvinylchloride compound PVC V-90.

Insulation colour: White(black letter numbered), Green/yellow

Sheath: Polyvinylchloride compound PVC 5V-90

Sheath colour: Orange, other colors are available upon request

Technical Characteristics

| Conductor | Current Ratings | | | Electrical Characteristics | | | | |
|--------------------|------------------------------|---------------------|-----------------|----------------------------|------------------------------------|------------------------------------|------------------|--------------------------------------|
| | Nominal Area mm ² | Unenclosed In Air A | Buried Direct 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 @75°C mV/Am |
| 1.5mm ² | | | | | | | | |
| 2C+E | 18 | 14 | 22 | 13.6 | 16.5 | 0.111 | 33.0 | |
| 3-50C+ E | 15 | 13 | 19 | 13.6 | 16.5 | 0.111 | 33.0 | |
| 2.5mm ² | | | | | | | | |
| 2C+E | 26 | 20 | 31 | 7.41 | 9.01 | 0.102 | 18.0 | |
| 3-50C+ E | 22 | 18 | 26 | 7.41 | 9.01 | 0.102 | 18.0 | |



Cable Parameter

| No. of Cores | Conductor No./ OD | Nom. insulation thickness mm | Nom. earth conductor area mm ² | Nom. earth conductor insulation thickness mm | Nom. diameter over bedding mm | Armour diameter mm | Nom. overall diameter mm | Approx. mass kg/km |
|--------------------|-------------------|------------------------------|---|--|-------------------------------|--------------------|--------------------------|--------------------|
| 1.5mm ² | | | | | | | | |
| 2C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 9.0 | 0.90 | 14.5 | 405 |
| 3C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 9.8 | 0.90 | 15.4 | 440 |
| 4C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 10.7 | 0.90 | 16.3 | 550 |
| 6C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 11.7 | 0.90 | 17.3 | 690 |
| 8C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 13.6 | 1.25 | 19.9 | 770 |
| 10C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 14.9 | 1.25 | 21.2 | 920 |
| 12C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 16.2 | 1.25 | 22.5 | 1010 |
| 15C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 17.1 | 1.60 | 23.4 | 1110 |
| 20C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 19.0 | 1.60 | 26.0 | 1535 |
| 25C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 21.7 | 1.60 | 28.7 | 1670 |
| 30C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 23.5 | 1.60 | 30.4 | 1840 |
| 40C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 26.4 | 1.60 | 34.8 | 2260 |
| 50C+ E | 7/0.50 | 0.8 | 1.5 | 0.6 | 28.9 | 1.60 | 36.1 | 2400 |
| 2.5mm ² | | | | | | | | |
| 2C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 10.0 | 0.90 | 11.6 | 210 |
| 3C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 10.9 | 0.90 | 12.6 | 250 |
| 4C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 12.0 | 0.90 | 13.7 | 285 |
| 6C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 13.1 | 1.25 | 14.8 | 365 |
| 8C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 15.3 | 1.25 | 18.4 | 455 |
| 10C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 16.8 | 1.25 | 19.9 | 530 |
| 12C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 18.3 | 1.60 | 20.0 | 605 |
| 15C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 19.3 | 1.60 | 21.0 | 715 |
| 20C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 21.5 | 1.60 | 25.7 | 950 |
| 25C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 24.6 | 1.60 | 26.3 | 1095 |
| 30C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 26.6 | 1.60 | 28.3 | 1200 |
| 40C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 30.4 | 2.0 | 33.5 | 1565 |
| 50C+ E | 7/0.67 | 0.8 | 2.5 | 0.7 | 33.3 | 2.0 | 35.0 | 1925 |