



## PVC Insulated, Round Cables, 450/750V

### 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 not subject to mechanical damage.

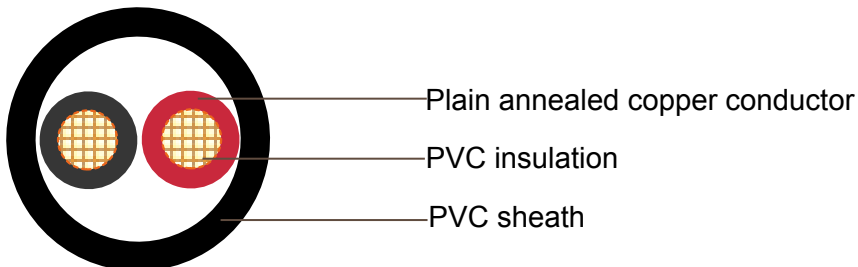
### Standard

AS/NZS 5000.2

AS 1125

AS 3808

### Cable Construction



**Conductor:** Plain annealed copper.

Maximum operating temperature: 90°C

**Insulation:** PVC V90.

**Insulation colour:** 2C: Red, Black

3C: Red, White & Blue

4C: Red, White, Blue, & Black

7-37C: White (Numbered)

**Sheath:** Polyvinylchloride compound PVC 5V90

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



### Technical Characteristics

Conductor Nominal Area mm <sup>2</sup>	Current Ratings			Electrical Characteristics			
	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	Single Phase Voltage Drop @75°C mV/Am
2 cores							
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
Conductor Nominal Area mm <sup>2</sup>	Current Ratings			Electrical Characteristics			
	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
3 cores							
1.5	17	26	21	13.6	16.5	0.111	28.6
2.5	25	37	29	7.41	9.01	0.102	15.6
4	33	48	37	4.61	5.61	0.102	9.71
6	42	61	47	3.08	3.75	0.097	6.49
4 cores							
1.5	17	26	21	13.6	16.5	0.111	28.6
2.5	25	37	29	7.41	9.01	0.102	15.6
4	33	48	37	4.61	5.61	0.102	9.71
6	42	61	47	3.08	3.75	0.097	6.49
7-37 cores							
1.0	14	21	17	18.1	25.8	0.119	51.6
1.5	17	26	21	13.6	16.5	0.111	33.0
2.5	25	37	29	7.41	9.01	0.102	18.0

### Cable Parameter

2 cores

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	0.9	8.0	95
2.5	7/0.67	0.7	1	9.6	140



### 3 cores

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	0.9	8.5	120
2.5	7/0.67	0.7	1	10.1	170
4	7/0.85	0.8	1.1	11.7	240
6	7/1.04	1.0	1.1	13.2	300

### 4 cores

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.5	7/0.50	0.6	0.9	9.2	130
2.5	7/0.67	0.7	1	11.4	210
4	7/0.85	0.8	1.1	12.4	280
6	7/1.04	1.0	1.1	13.8	330

### 7 cores

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	10.0	150
1.5	7/0.50	0.6	0.9	11.4	195
2.5	7/0.67	0.7	1	13.3	300

### 12 cores

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	12.9	240
1.5	7/0.50	0.6	0.9	15.0	320
2.5	7/0.67	0.7	1	17.5	490



## Australian Standard

19 cores

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	14.9	350
1.5	7/0.50	0.6	0.9	16.8	450
2.5	7/0.67	0.7	1	21.0	760

27 cores

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	17.9	480
1.5	7/0.50	0.6	0.9	21.1	670
2.5	7/0.67	0.7	1	24.8	1030

37 cores

Nom. conductor area mm <sup>2</sup>	Conductor No./ OD	Nom. insulation thickness mm	Nom. sheath thickness mm	Nom. overall diameter mm	Approx. mass kg/km
1.0	1/1.13	0.6	0.9	21.2	690
1.5	7/0.50	0.6	0.9	22.7	840
2.5	7/0.67	0.7	1	27.9	1380