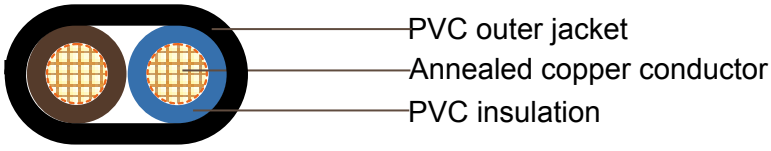
V75 PVC Heavy Duty Flexible Cord, 0.6/1kV

Application

These cables are suitable for installation in switchboards and control panels where confined spaces and tortuous routes are encountered, or where flexibility is needed for hinged panels, and for fixed wiring within other enclosures where the cable is not accessible without the use of tools. they are suitable for extension leads in sizes 1 mm^2 and above and suitable for supply to small industrial and commercial equipment requiring three phase power. They are also suitable for equipment requiring three phase and single phase supply and an earth connection, for example equipment containing a three phase motor and single phase pilot lights, such as industrial sweepers, vacuum cleaners, welders, etc, also suitable for use with double insulated appliances where the cord is subject to higher mechanical stress, in damp and wet conditions.

Standard

AS/NZS 5000.1
AS/NZS 3191
AS/NZS 1125



Cable Construction

Conductor: Annealed copper conductor to AS/NZS 1125
Maximum continuous operating temperature: 75°C

Insulation: V-75 PVC

Colours:

To AS/NZS 3191 (≤4 mm^2)

1C - Red, White, Light Blue, Black
2C - Brown, Light Blue
3C - Brown, Light Blue, Green/Yellow
4C - Brown, Light Blue, White, Green/Yellow
5C - Brown, Light Blue, Orange, White, Green/Yellow

To AS/NZS 5000.1 (≥6 mm^2)

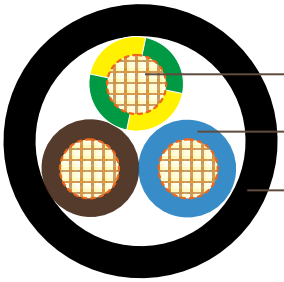
3C - Red, Black, Green/Yellow

4C - Red, White, Black, Green/Yellow

5C - Red, White, Blue, Black, Green/Yellow

Sheath: 4V-75 PVC

Colours: Black, Orange



Technical Characteristics

Conductor Size mm^2	Current Carrying Capacity A	Max. DC Resistance Ohm/km @ 20 °C	Max. AC Resistance Ohm/km @ 90 °C	Single Phase Voltage Drop MV/A.m
0.5	3	39.0	47.4	94.7
0.75	7.5	26.0	31.6	63.2
1.0	10	19.5	23.7	47.5
1.5	16	13.3	16.2	32.3
2.5	20	7.98	9.70	19.4
4.0	25	4.95	6.02	12.0

Cable Parameter

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
Round without sheath					
0.5	1	0.8	-	2.6	1.1
0.75	1	0.8	-	2.8	1.4
1.0	1	0.8	-	2.9	1.6
1.5	1	0.8	-	3.2	2.1
2.5	1	0.9	-	3.9	3.3
4	1	1.0	-	4.7	5.5
Round					
0.75	1	0.8	1.3	5.4	3.8
1.0	1	0.8	1.3	5.6	4.2
1.5	1	0.8	1.4	6.1	5.2

Australian Standard

Conductor Size	No.of cores	Nominal Insulation Thickness	Nominal Sheath Thickness	Nominal O.D.	Approx.cable weight
mm^2		mm	mm	mm	kg/100m
2.5	1	0.9	1.4	6.8	6.9
4	1	1.0	1.5	7.7	9.4
0.75	2	0.8	1.3	8.2	8.4
1.0	2	0.8	1.3	8.6	9.3
1.5	2	0.8	1.5	9.5	12
2.5	2	0.9	1.7	11.2	17
4	2	1.0	1.8	13	25
Round with ground conductor					
0.75	3	0.8	1.4	8.8	10
1.0	3	0.8	1.4	9.2	11
1.5	3	0.8	1.6	10.2	15
2.5	3	0.9	1.8	12.1	21
4	3	1.0	1.9	13.9	30
6	3	1.0	2.9	16.0	44
10	3	1.0	3.1	20.5	69
16	3	1.0	3.3	24.1	90
25	3	1.2	3.7	29.4	140
35	3	1.2	4.0	32.5	181
50	3	1.4	4.4	37.7	241
0.75	4	0.8	1.5	9.8	12
1.0	4	0.8	1.5	10.2	14
1.5	4	0.8	1.7	11.3	18
2.5	4	0.9	1.9	13.3	26
4	4	1.0	2.0	15.4	38
6	4	1.0	3.0	17.6	54
10	4	1.0	3.3	22.6	85
16	4	1.0	3.5	26.1	122
25	4	1.2	3.9	32.0	191
35	4	1.2	4.2	35.3	246
50	4	1.4	4.7	41.2	332
70	4	1.4	5.1	48.3	460
95	4	1.6	5.7	53.3	577
120	4	1.6	6.1	60.0	731
0.75	5	0.8	1.6	10.8	15
1.0	5	0.8	1.6	11.2	17
1.5	5	0.8	1.8	12.4	21
2.5	5	0.9	2.0	14.6	30
4	5	1.0	2.2	17.1	46