

Single Core PVC Insulated & Sheathed Wires



▶ APPLICATION

These cables are intended for surface wiring where there is little risk of mechanical damage and are suitable for use in electrical installations such as power and lighting.

▶ CONSTRUCTION

Reference : 6181Y
Conductor : Solid or stranded plain copper class 1 or 2 to BS6360/IEC60228-1
Insulation : PVC Type TI 1 to BS7655
Sheath : PVC Type TM 1 or Type 6 to BS7655



▶ STANDARD COLOURS

Colour : Red, Yellow, Blue, Black, Green, Yellow/Green, Brown, Grey
 Other colours available on request

▶ PACKAGING

- Sizes 1.5mm² to 4mm² in reels/coils of 100yards and 100m
 - All sizes can be supplied in non-returnable wooden reels of 500m and 1000m

▶ TECHNICAL DATA

Max. Operating Temperature : 70°C
Rated Voltage : 1.0mm² to 35.0mm² - 300/500V
 50.0mm² and above - 600/1000V
Standards : 1.0mm² to 35.0mm² - BS6004
 50.0mm² and above - BS6346

Nominal Cross-Sectional Area (mm ²)	Conductor			Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)					
1.00	1	1.13	18.10	0.60	0.80	4.50	26	12
1.50	1	1.38	12.10	0.70	0.80	4.90	35	16
2.50	1	1.78	7.410	0.80	0.80	5.80	49	21
4.00	7	0.85	4.610	0.80	0.90	6.80	74	28
6.00	7	1.04	3.080	0.80	0.90	7.40	97	36
10.0	7	1.35	1.830	1.00	0.90	8.80	147	50
16.0	7	1.70	1.150	1.00	1.00	10.50	218	68
25.0	7	2.14	0.727	1.20	1.10	12.50	327	89
35.0	7	2.52	0.524	1.20	1.10	13.50	426	110
50.0	19	1.83	0.387	1.40	1.40	14.75	594	134
70.0	19	2.17	0.268	1.40	1.40	16.45	793	171
95.0	19	2.52	0.193	1.60	1.50	18.80	1062	207
120.0	37	2.04	0.153	1.60	1.50	20.48	1307	239
150.0	37	2.27	0.124	1.80	1.80	23.09	1646	262
185.0	37	2.52	0.0991	2.00	2.00	25.64	2031	296
240.0	37	2.87	0.0754	2.00	2.00	28.09	2563	346
300.0	61	2.50	0.0601	2.20	2.20	31.03	3195	394
400.0	61	2.85	0.0470	2.20	2.20	35.00	4156	467
500.0	91	2.65	0.0366	2.20	2.20	38.50	5114	533
630.0	91	2.97	0.0283	2.50	2.50	43.50	6459	611