



### CABLE DESCRIPTION

High conductivity annealed stranded or solid copper conductors. Insulated with general purpose grade PVC in plain colours.

### INSTALLATION INFORMATION

For the wiring of :

- Industrial Buildings
- Control Panels
- Light Fittings
- Housing
- Appliances
- Communication Panels

### PROPERTIES

Specification : BS6004  
 Temperature Range : -10°C to 70°C  
 Voltage Rating : 450 / 750 V  
 Core Identification : Blue, Black, Brown, Yellow/Green, Orange, Pink, Violet, Grey, White, Red  
 Packaging : 100 m shrink-wrapped coils  
 500m Lengths available on request

### TECHNICAL DATA

**BS6004:** PVC Insulated, Non Sheathed 450 / 750 V Cable - Copper Conductors

Cable Size	ELECTRICAL PROPERTIES				PHYSICAL PROPERTIES			
	Current Rating	Resistance	Volt Drop	1 Sec Short Circuit Rating	Nominal Diameters			Approx Mass
					D1	r	D2	
(mm <sup>2</sup> )	(A)	(Ohm/km)	(mV/Am)	(kA)	(mm)	(mm)	(mm)	(kg/100m)
1	17	18,1	44,00	0,11	1,13	0,8	2,7	1,7
1,5	21	12,1	29,00	0,17	1,38	0,8	3,0	2,2
2,5	27	7,41	18,00	0,28	1,78	0,8	3,5	3,2
4	38	4,61	11,00	0,46	2,59	1,0	4,7	5,2
6	47	3,08	7,30	0,69	3,14	1,0	5,2	7
10	64	1,83	4,40	1,15	4,07	1,0	6,1	11,1
16	85	1,15	2,80	1,84	5,03	1,0	7,0	16,7
25	112	0,8743	1,749	2,88	5,95	1,2	8,4	28
35	133	0,6332	1,266	4,03	7,00	1,2	9,4	37
50	156	0,4709	0,942	5,75	8,15	1,4	11,0	50
70	190	0,3312	0,662	8,05	9,70	1,4	12,5	73
95	227	0,2451	0,490	10,93	11,35	1,6	14,6	98
120	257	0,2000	0,400	13,80	12,60	1,6	15,8	122
150	287	0,1689	0,338	17,25	14,25	1,8	17,9	153
185	323	0,1438	0,288	21,27	15,85	2,0	19,9	180
240	372	0,1202	0,240	27,60	18,30	2,2	22,7	244
300	416	0,0763	0,153	34,50	20,80	2,4	25,6	305
400	468	0,0960	0,192	46,00	23,80	2,6	29,0	404

Under short circuit conditions a maximum conductor temperature of 160°C is allowed for a maximum of 1 second.  
 Volt drops given are a single phase system.

### PVC CURRENT RATINGS ARE BASED ON THE FOLLOWING ENVIRONMENTAL PARAMETERS

Maximum Sustained Conductor Temperature	Ground Temperature	Ambient Air Temperature (Free Air Shaded)	Ground Thermal Resistivity
70°C	25°C	30°C	1,2K.m/W

**D1:** Diameter over Conductor

**r:** Insulation Radial

**D2:** Diameter over Insulation