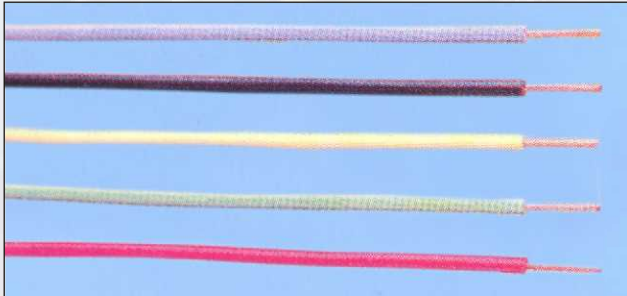




-the nation's live wire-

GENERAL WIRING CABLES

SINGLE-CORE. NON SHEATHED 600/1000V WIRES (IV)



Specification: BS 6004

Construction: plain annealed-copper solid or stranded conductor with PVC insulation

Colours of core identification: red, black, yellow, blue or green

Application: general wiring inside conduits or equipment in houses, buildings and factories.

Conductor		Radial thickness of insulation mm	Mean overall diameter (upper limit) mm	Maximum DC resistance per km at 20°C ohm	Approximate mass per km kg	Standard unit length m
Nominal cross sectional area mm ²	Number and nominal diameter of wires mm					
1.0	1/1.13	0.7	2.8	17.7	17	100
1.5	1/1.38	0.7	3.5	11.9	22	100
2.5	1/1.78	0.8	4.2	7.14	33	100
4	7/0.85	0.8	4.8	4.52	50	100
6	7/1.04	0.8	5.4	3.02	70	100
10	7/1.35	1.0	6.8	1.79	118	100
16	7/1.70	1.0	8.0	1.13	178	100
25	7/2.14	1.2	9.8	0.712	287	100
35	19/1.53	1.2	11.0	0.514	373	100
50	19/1.78	1.4	13.0	0.379	503	100
70	19/2.14	1.4	15.0	0.262	713	100
95	19/2.52	1.6	17.0	0.189	988	100

IV: PVC Insulated

CURRENT - CARRYING CAPACITIES AND ASSOCIATED VOLTAGE DROPS FOR IV BS: 6004, BS: 6346

CABLE SIZE mm ²	INSTALLATION METHOD/TYPE OF SUPPLY			
	ENCLOSED IN CONDUIT, DUCT, UNDERGROUND CONDUIT DUCT AND CABLE DUCTING			
	2 CABLES, SINGLE-PHASE AC or DC		3 or 4 CABLES THREE PHASE AC	
	CURRENT RATING (Ampere)	VOLTAGE DROP per amp/metre (mv)	CURRENT RATING (Ampere)	VOLTAGE DROP per amp/metre (mv)
1.0	14	42	12	37
1.5	17	28	14	24
2.5	24	17	21	15
4	32	11	29	9.2
6	41	7.1	37	6.2
10	55	4.2	51	3.7
16	74	2.7	66	2.3
25	97	1.7	87	1.5
35	119	1.3	106	1.1
50	145	0.97	125	0.84
70	185	0.71	160	0.62
95	230	0.56	195	0.48

Conductor Operating Temperature: 70°C

Assumed Ambient Temperature: 35°C

Where the ambient temperature exceeds the value stated, the appropriate correction factor must be applied.

See footnote on Page 7 for correction factor for PVC insulated cables.