

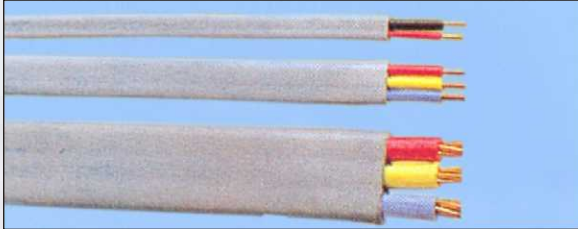


-the nation's live wire-

GENERAL WIRING CABLES (Cont'd)

600/1000V Cable for Surface Wiring (Continued)

FLAT TWIN AND THREE - CORE, PVC-INSULATED, PVC-SHEATHED 600/1000V CABLES (VVF)



Specification: BS 6004

Construction: plain annealed-copper solid or stranded conductor with PVC insulation; two or three cores laid parallel, then covered with PVC sheath

Colours of core identification:

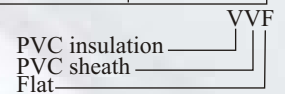
Two core: red and black

Three core: red, yellow and blue

Colour of Sheath: grey

Application: general fixed wiring in house, buildings, and factories

Number of cores	Conductor		Radial thickness of insulation mm	Radial thickness of sheath mm	Overall dimensions 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						
2	1.0	1/1.13	0.6	0.9	6.7 x 4.4	17.7	50	100
	1.5	1/1.38	0.7	0.9	7.2 x 4.6	11.9	62	100
	2.5	1/1.78	0.8	1.0	8.6 x 5.4	7.14	93	100
	4	7/0.85	0.8	1.0	10.7 x 6.5	4.52	140	100
	6	7/1.04	0.8	1.1	12.0 x 7.3	3.02	192	100
	10	7/1.35	1.0	1.2	14.9 x 8.8	1.79	305	100
16	7/1.70	1.0	1.3	17.2 x 10.1	1.13	443	100	
3	1.0	1/1.13	0.6	0.9	9.0 x 4.4	17.7	71	100
	1.5	1/1.38	0.7	0.9	9.8 x 4.6	11.9	89	100
	2.5	1/1.78	0.8	1.0	11.9 x 5.5	7.14	135	100
	4	7/0.85	0.8	1.1	15.0 x 6.7	4.52	210	100
	6	7/1.04	0.8	1.1	16.7 x 7.3	3.02	279	100
	10	7/1.35	1.0	1.2	21.0 x 8.9	1.79	448	100
16	7/1.70	1.0	1.3	24.4 x 10.2	1.13	652	100	



CURRENT - CARRYING CAPACITIES AND ASSOCIATED VOLTAGE DROPS AND FOR PVC INSULATED PVC SHEATHED CABLES VVF, VVF + E AND VVR

BS: 6004, BS: 6346

CABLE SIZE mm ²	METHOD OF INSTALLATION/TYPE OF SUPPLY							
	SURFACE CATENARY, SUSPENDED BUNCHED AND UNENCLOSED SYSTEMS				CONDUIT, TRUNKING AND UNDERGROUND DUCT			
	TWIN SINGLE PHASE AC OR DC		THREE & FOUR CORES THREE-PHASE AC		TWIN SINGLE PHASE AC OR DC		THREE & FOUR CORES THREE-PHASE AC	
	CURRENT RATING (ampere)	VOLTAGE DROP amp/metre	CURRENT RATING (Ampere)	VOLTAGE DROP amp/metre	CURRENT RATING (Ampere)	VOLTAGE DROP per amp/metre	CURRENT RATING (Ampere)	VOLTAGE DROP per amp/metre
A	mv	A	mv	A	mv	A	mv	
1.0	16	40	13	37	14	42	12	37
1.5	20	28	17	24	18	28	16	24
2.5	28	17	24	15	24	17	21	15
4	36	11	32	9.2	32	11	29	9.2
6	46	7.1	40	6.2	40	7.1	36	6.2
10	64	4.2	54	3.7	53	4.2	49	3.7
16	85	2.7	71	2.3	70	2.7	62	2.3

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.