



No liability can be accepted for the data below which is given for guidance only.

PVC Cables

Multicore PVC-Insulated Cables (Non Armoured, Copper Conductors)

CABLE CURRENT CARRYING CAPACITY (Amperes)

6242Y to BS 6004

6243Y to BS 6346

Ambient temperature: 30°C

Conductor operating temperature: 70°C

Conductor cross-sectional area	Reference method <i>Enclosed in an insulated wall etc.</i> 1 Three-core cable or 1 four-core cable, three phase AC	Reference method <i>Enclosed in conduit on a wall or ceiling or in trunking</i>		Reference method <i>Clipped direct</i> 1 Two-core cable single phase AC or DC
		1 Two-core cable single phase AC or DC	1 Three-core cable or 1 Four-core cable three phase AC	
mm ²	A	A	A	A
1.0	10	13	11.5	15
1.5	13	16.5	15	19.5
2.5	17.5	23	20	27
4.0	23	30	27	36
6.0	29	38	34	46
10.0	39	52	46	63
16.0	52	69	62	85
25.0	68	90	80	112
35.0	83	111	99	138
50.0	99	133	118	168
70.0	125	168	149	213
95.0	150	201	179	258
120.0	172	232	206	299
150.0	196	258	225	344
185.0	223	294	255	392
240.0	261	344	297	461
300.0	298	394	339	530

PVC Singles 6491x to BS6004

CURRENT - CARRYING CAPACITY (Amperes)

Conductor cross-sectional area	Reference method <i>Enclosed in conduit or trunking surface</i>	Reference method <i>Enclosed in conduit or trunking</i> <i>Buried in thermally insulated wall</i>	
		S/Phase AC	T/Phase AC
Size	S/Phase AC	S/Phase AC	T/Phase AC
mm ²	A	A	A
1.5	17	14	13
2.5	24	19	18
4.0	32	26	24
6.0	41	34	31
10.0	57	46	42
16.0	76	61	56
25.0	101	80	73
35.0	125	99	89
50.0	151	119	108
70.0	192	151	136
95.0	232	182	164
120.0	269	210	188

WARNING

Current ratings are dependant on the type of installation and those shown are for guidance only. For precise cable ratings for a particular installation refer to the current edition of the IEE Wiring Regulations.

PVC Flexes

CURRENT - CARRYING CAPACITY (Amperes)

BS 6141
BS 6500

Conductor cross-sectional area	Conductor cross-sectional area	
	Single Phase AC	Three Phase AC
mm ²	A	A
0.5	3	3
0.75	6	6
1.0	10	10
1.25	13	-
1.5	16	16
2.5	25	20
4.0	32	25

BUTYL

CURRENT - CARRYING CAPACITY (Amperes)

BS 6883

Conductor cross-sectional area	Reference Method <i>enclosed in conduit or trunking</i>	Reference Method <i>clipped direct</i>	
	1 Three of four-core cable three-phase AC	1 Two-core cable single phase AC or DC	1 Three or four-core cable three phase AC
mm ²	A	A	A
1.0	14.5	18	16
1.5	18.5	23	20
2.5	25	32	28
4.0	33	43	37
6.0	43	55	48

Ambient temperature: 30°C Conductor operating temperature: 70°C

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SWA Cables

CABLE CURRENT CARRYING CAPACITY (Amperes)

BS 6346 Ambient temperature: 30°C Conductor operating temperature: 70°C

Conductor cross-sectional area	Reference method (Clipped direct)		Reference method (on a perforated horizontal or vertical cable tray)	
	1 Two-core single-phase AC or DC	1 Three or four-core cable three-phase AC	1 Two-core cable single phase AC or DC	1 Three or four-core cable three-phase AC
mm ²	A	A	A	A
1.5	21	18	22	19
2.5	28	25	31	26
4.0	38	33	41	35
6.0	49	42	53	45
10.0	67	58	72	62
16.0	89	77	97	83
25.0	118	102	128	110
35.0	145	125	157	135
50.0	175	151	190	163
70.0	222	192	241	207
95.0	269	231	291	251
120.0	310	267	336	290
150.0	356	306	386	332
185.0	405	348	439	378
240.0	476	409	516	445
300.0	547	469	592	510
400.0	621	540	683	590