

Table 4D2A - Current Carrying Capacity in Ampere
Current Rating Chart for Multicore 70°C

Extract from the IEE Wiring Regulations, 17th Edition
30°C Ambient Air Temperature,
90°C Conductor Operating Temperature,
30°C Ambient Ground Temperature

* with or without protective conductor.

Conductor cross-sectional area mm ²	Method A - Enclosed in conduit in an insulated wall.		Method B - Enclosed in conduit on a wall or in trunking.		REFERENCE METHOD C - CLIPPED DIRECT		Method E - In free air or on a perforated cable tray.	
	1 two-core* cable, single	1 three-core* or 1 four-core cable, three-phase A.C.	1 two-core* cable, single	1 three-core* or 1 four-core cable, three-phase A.C.	1 two-core* cable, single	1 three-core* or 1 four-core cable, three-phase A.C.	1 two-core* cable, single	1 three-core* or 1 four-core cable, three-phase A.C.
	phase A.C or D.C.	phase A.C or D.C.	phase A.C or D.C.	phase A.C or D.C.	phase A.C or D.C.	phase A.C or D.C.	phase A.C or D.C.	phase A.C or D.C.
1	11	10	13	11.5	15	13.5	17	14.5
1.5	14	13	16.5	15	19.5	17.5	22	18.5
2.5	18.5	17.5	23	20	27	24	30	25
4	25	23	30	27	36	32	40	34
6	32	29	38	34	46	41	51	43
10	43	39	52	46	63	57	70	60
16	57	52	69	62	85	76	94	80
25	75	68	90	80	112	96	119	101
35	92	83	111	99	138	119	148	126
50	110	99	133	118	168	144	180	153
70	139	125	168	149	213	184	232	196
95	167	150	201	179	258	223	282	238
120	192	172	232	206	299	259	328	276
150	219	196	258	225	344	299	379	319
185	248	223	294	255	392	341	434	364
240	291	261	344	297	461	403	514	430
300	334	298	394	339	530	464	593	497
400	-	-	470	402	634	557	715	597

Table 4D2B - Voltage drop per ampere, per metre 70°C conductor operating temperature

Conductor cross-sectional area mm ²	Two-core cable, D.C.	Two-core cable, single phase A.C.			Three or four-core cable, three-phase A.C.		
	mV/A/m	r	x	z	r	x	z
1	44		44			38	
1.5	29		29			25	
2.5	18		18			15	
4	11		11			9.5	
6	7.3		7.3			6.4	
10	4.4		4.4			3.8	
16	2.8		2.8			2.4	
25	1.75	1.75	0.17	1.75	1.5	0.145	1.5
35	1.25	1.25	0.165	1.25	1.1	0.145	1.1
50	0.93	0.93	0.165	0.94	0.8	0.14	0.81
70	0.63	0.63	0.16	0.65	0.55	0.14	0.57
95	0.46	0.47	0.155	0.5	0.41	0.135	0.43
120	0.36	0.38	0.155	0.41	0.33	0.135	0.35
150	0.29	0.3	0.155	0.34	0.26	0.13	0.29
185	0.23	0.25	0.15	0.29	0.21	0.13	0.25
240	0.18	0.19	0.15	0.24	0.165	0.13	0.21
300	0.145	0.155	0.145	0.21	0.135	0.13	0.185
400	0.105	0.115	0.145	0.185	0.1	0.125	0.16