

10A	16A	20A	32A	40A
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No of Circuits	1	2	3	4	5	6	7
C_g	1.0	0.8	0.7	0.65	0.6	0.57	0.54

Ambient temperature ($^{\circ}\text{C}$)	25	30	35	40	45	50	55	60
C_a	1.02	1.0	0.96	0.91	0.87	0.82	0.76	0.71

Cross Sectional Area mm^2	Current carrying capacity (A)	Voltage drop mV/A/m
1	13.5	44
1.5	17.5	29
2.5	24	18
4	32	11
6	41	7.3
10	57	4.4
16	76	2.8

Type of conductor	Conductor c.s.a. (mm^2)	Factor for conduit	Factor for trunking pvc insulation	Factor for trunking thermosetting insulation
Solid	1.0	16	3.6	3.8
Solid	1.5	22	8.0	8.6
Stranded	1.5	22	8.6	9.1
Solid	2.5	30	11.9	11.9
Stranded	2.5	30	12.6	13.9
Stranded	4.0	43	16.6	18.1
Stranded	6.0	58	21.2	22.9
Stranded	10.0	105	35.3	36.3
Stranded	16.0	145	47.8	50.3
Stranded	25.0	217	73.9	75.4

Table 4.6 - Conduit factors

<i>Length of run between boxes (m)</i>								
	1	2	3	4	5	6	8	10
Conduit, straight	-							
16mm	290	290	290	171	171	167	158	150
20mm	460	460	460	286	278	270	256	244
25mm	800	800	800	514	500	487	463	442
32mm	1400	1400	1400	900	878	857	818	783
Conduit, one bend	-							
16mm	188	177	167	158	150	143	130	120
20mm	303	286	270	256	244	233	213	196
25mm	543	514	487	463	442	422	388	258
32mm	947	900	857	818	783	750	692	643
Conduit, two bends	-							
16mm	177	158	143	130	120	111	97	86
20mm	286	256	233	213	196	182	159	141
25mm	514	463	422	388	358	333	292	260
32mm	900	818	750	692	643	600	529	474
Conduit, three bends	-							
16mm	177	158	143	130	120			
20mm	286	256	233	213	196			
25mm	514	463	422	388	358			
32mm	900	818	750	692	643			
Conduit, four bends	-							
16mm	130	97	86					
20mm	213	159	233					
25mm	514	463	422					
32mm	900	818	750					

For 38mm conduit use the 32mm factor x 1.4.
 For 50mm conduit use the 32mm factor x 2.6.
 For 63mm conduit use the 32mm factor x 4.2.