



Current Carrying Capacities of Copper Conductors

Amperes of Single Conductor in Free Air 30°C Ambient Temperature

For multi-conductor cables, see derating factors below.

AWG	Polyethylene Neoprene TPU PVC 80°C	Polypropylene HD Polyethylene 90°C	PVC Nylon 105°C	Kynar XLPE Thermoplastic- elastomers 125°C	Teflon® Kapton Tefzel® Silicone 200°C
32	1	2	2	2	2
30	2	3	3	3	4
28	3	4	4	5	6
26	4	5	5	6	7
24	6	7	7	8	10
22	8	9	10	11	13
20	10	12	13	14	17
18	15	17	18	20	24
16	19	22	24	26	32
15	23	27	30	36	39
14	27	30	33	40	45
12	36	40	45	50	55
10	47	55	58	70	75
8	65	70	75	90	100
6	95	100	105	125	135
4	125	135	145	170	180
2	170	180	200	225	240

Derating Factors for Multi-Conductor Cables

Number of Conductors	Derating Factor
2 to 5	0.8
6 to 15	0.7
16 to 30	0.5

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