

Technical Data



Current rating of UL/CSA cables

For single core cables based on an ambient temperature of 30°C

AWG No.	cross section mm ²	current rating A	AWG No.	cross section mm ²	current rating A
24	0,21	3,5	3	26,65	154
22	0,33	5,0	2	33,61	170
20	0,52	6,0	1	42,38	180
18	0,82	9,5	1/0	53,43	200
16	1,31	20	2/0	67,40	225
14	2,08	24	3/0	84,97	275
12	3,32	34	4/0	107,17	325
10	5,26	52	250	127,00	345
8	8,35	75	300	152,00	390
6	13,29	95	400	178,00	415
4	21,14	120			

For multi core cables based on an ambient temperature of 30°C

AWG No.	cross section mm ²	Current rating up to 3 cores A	current rating 4 - 6 cores A	current rating 7 - 24 cores A	current rating 25 - 42 cores A	current rating from 43 cores A
24	0,21	2	1,6	1,4	1,2	1
22	0,33	3	2,4	2,1	1,8	1,5
20	0,52	5	4	3,5	3	2,5
18	0,82	7	5,6	4,9	4,2	3,5
16	1,31	10	8	7	6	5
14	2,08	15	12	10,5	9	7,5
12	3,32	20	16	14	12	10
10	5,26	30	24	21	18	15
8	8,35	40	32	28	24	20
6	13,29	55	44	38	33	27
4	21,14	70	56	49	42	35
3	26,65	80	64	56	48	40
2	33,61	95	76	66	57	57
1	42,38	110	88	77	66	55

Correction factors for ambient temperature higher than 30°C

ambient temperature °C	current rating values in the above tables correction factors %
31 - 40	82
41 - 45	71
46 - 50	58

Single core, PVC insulated and UL AWM respectively CSA TEW approved wiring cables are used in switching and distribution racks, in electrical equipments and in conduits, for the connection of machines and transformers. The permissible operating temperature is 105°C.

The specified values are indicative. In borderline cases the current carrying capacity guidelines and regulations shall be considered.