

Current ratings for UL-CSA cables

Current ratings

PVC-insulated single and multicore wiring cables according to UL-AWM and CSA-TEW standards are used in switchboard and distribution cabinets of electrical equipments and as well as for the installation of machines and transformers in protecting tubes.

PVC-insulation is allowed at maximum temperature range of 105°C.

The indicated values stated in the following tables are considered as guiding values. In critical situation the rules and recommendations for the current ratings should be followed.

● for **single core** cables at ambient temperature **up to 30°C**

AWG No.	Cross-section mm ²	Load rating A	AWG No.	Cross-section mm ²	Load 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	345
8	8,35	75	300	152	390
6	13,29	95	400	178	415
4	21,14	120			

● for **multicore** cables at ambient temperature **up to 30°C**

AWG Nr.	Cross-section mm ²	Load rating up to 3 cores A	Load rating 4–6 cores A	Load rating 7–24 cores A	Load rating 25–42 cores A	Load rating 43 and above 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** at ambient temperature **over 30°C**

Ambient temperature °C	Load rating values of above tables correction-factors f
31–40	0,82
41–45	0,71
46–50	0,58