CURRENT RATINGS FOR UL-CSA CABLES

Ambient temperature 30 °C

Abstract of NEC Tabelle 310.15(B)(17)

Allowable ampacity (in Ampere) of **conductors**, rated 0 – 2000 Volts, in free air.

Conductor size	Temperature Rating of Conductor		
AWG or kcmil (MCM)	60 °C (140 °F)	75 °C (167 °F)	90 °C (194 °F)
18	–	–	18
16	–	–	24
14*	25	30	35
12*	30	35	40
10*	40	50	55
8	60	70	80
6	80	95	105
4	105	125	140
3	120	145	165
2	140	170	190
1	165	195	220
1/0	195	230	260
2/0	225	265	300
3/0	260	310	350
4/0	300	360	405
250	340	405	455
300	375	445	500
350	420	505	570
400	455	545	615
500	515	620	700
600	575	690	780

Abstract of NEC Tabelle 310.15(B)(16)

Allowable ampacity (in Ampere) of insulated conductors, rated 0 – 2000 Volts. NOT MORE THAN **three Conductors** in **raceway** or cable ore Earth (direct burial).

Conductor size	Temperature Rating of Conductor		
AWG or kcmil (MCM)	60 °C (140 °F)	75 °C (167 °F)	90 °C (194 °F)
18	–	–	14
16	–	–	18
14*	15	20	25
12*	20	25	30
10*	30	35	40
8	40	50	55
6	55	65	75
4	70	85	95
3	85	100	115
2	95	115	130
1	110	130	145
1/0	125	150	170
2/0	145	175	195
3/0	165	200	225
4/0	195	230	260
250	215	255	290
300	240	285	320
350	260	310	350
400	280	355	380
500	320	380	430
600	350	420	475

* **Note** Unless otherwise specifically permitted elsewhere in the NEC, the overcurrent protection for conductor types market with an * shall not exceed 15 amperes for AWG 14, 20 amperes for AWG 12 and 30 amperes for AWG 10, after any correction factors for ambient temperature and numbers of conductros have been applied.

Correction factors for ambient temperatures other than 30 °C				Correction factors for more than three current-carrying conductors in a raceway or cable.	
Ambient temperature in °C	60 °C (140 °F)	75 °C (167 °F)	90 °C (194 °F)	Number of current-carrying conductors	Correction factor
21 – 25	1,08	1,05	1,04	4 up to 6	0,80
26 – 30	1,00	1,00	1,00	7 up to 9	0,70
31 – 35	0,91	0,94	0,96	10 up to 20	0,50
36 – 40	0,82	0,88	0,91	21 up to 30	0,45
41 – 45	0,71	0,82	0,87	31 up to 40	0,40
46 – 50	0,58	0,75	0,82	41 and more	0,35
51 – 55	0,41	0,67	0,76		
56 – 60	–	0,58	0,71		
61 – 70	–	0,33	0,58		
71 – 80	–	–	0,41		