



RACEWAY, CABLE, OR EARTH—ALLOWABLE AMPACITIES OF CONDUCTORS

Based on ambient air temperature of 30° C (or 86° F), following are the allowable ampacities of insulated conductors (rated 0–500 volts) with not more than three current-carrying conductors in raceway, cable, or earth

SIZE AWG or kcmil	60°C (140°F)	75°C (167°F)	90°C (194°F)	60°C (140°F)	75°C (167°F)	90°C (194°F)	
	Types TW, UF	Types RHW, THHW, THW, THWN, XHHW, USE	Types TBS, SA, SIS, THHN, THHW, THW-2, THWN-2, RHH, RHW-2, USE-2 XHH, XHHW, XHHW-2, ZW-2	Types TW, UF	Types RHW, THHW, THW, THWN, XHHW, USE, ZW	Types TBS, SA, SIS, FEP, FEPB, MI, RHH, RHW-2, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW, XHHW-2, ZW-2	
	Copper			Aluminum or Copper-Clad Aluminum			
18*	—	—	14	—	—	—	
16*	—	—	18	—	—	—	
14*	15	20	25	—	—	—	
12*	20	25	30	15	20	25	
10*	30	35	40	25	30	35	
8	40	50	55	35	40	45	
6	55	65	75	40	50	55	
4	70	85	95	55	65	75	
3	85	100	115	65	75	85	
2	95	115	130	75	90	100	
1	110	130	145	85	100	115	
1/0	125	150	170	100	120	135	
2/0	145	175	195	115	135	150	
3/0	165	200	225	130	155	175	
4/0	195	230	260	150	180	205	
250	215	255	290	170	205	230	
300	240	285	320	195	230	260	
350	260	310	350	210	250	280	
400	280	335	380	225	270	305	
500	320	380	430	260	310	350	
Ambient Temp C°	Correction Factors for Temperature Multiply the allowable ampacities shown above by the appropriate factor below for ambient temperatures other than 30° C						Ambient Temp F°
10 or less	1.29	1.20	1.15	1.29	1.20	1.15	50 or less
11–15	1.22	1.15	1.12	1.22	1.15	1.12	51–59
16–20	1.15	1.11	1.08	1.15	1.11	1.08	60–68
21–25	1.08	1.05	1.04	1.08	1.05	1.04	69–77
26–30	1.00	1.00	1.00	1.00	1.00	1.00	78–86
31–35	0.91	0.94	0.96	0.91	0.94	0.96	87–95
36–40	0.82	0.88	0.91	0.82	0.88	0.91	96–104
41–45	0.71	0.82	0.87	0.71	0.82	0.87	105–113
46–50	0.58	0.75	0.82	0.58	0.75	0.82	114–122
51–55	0.41	0.67	0.76	0.41	0.67	0.76	123–131
56–60	—	0.58	0.71	—	0.58	0.71	132–140
61–65	—	0.47	0.65	—	0.47	0.65	141–149
66–70	—	0.33	0.58	—	0.33	0.58	150–158
71–75	—	—	0.50	—	—	0.50	159–167
76–80	—	—	0.41	—	—	0.41	168–176
81–85	—	—	0.29	—	—	0.29	177–185

Adapted from NEC® Tables 310.15(B)(16) and 310.15(B)(2)(a).