

# Allowable Ampacity Tables

Table 310.15(B)(17) Allowable Ampacities Of Single-Insulated Conductors Rated Up To And Including 2000 Volts In Free Air, Based On Ambient Temperature Of 30°C (86°F)\*

Allowable Ampacities of Single-Insulated Conductors			
Size AWG or kcmil	Temperature Rating of Conductor		
	60°C (140°F)	75°C (167°F)	90°C (194°F)
	COPPER		
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
700	630	755	850
750	655	785	885
800	680	815	920
900	730	870	980
1000	780	935	1055
1250	890	1065	1200
1500	980	1175	1325
1750	1070	1280	1445
2000	1155	1385	1560

Table 310.15(B)(16) Allowable Ampacities Of Insulated Conductors Rated Up To And Including 2000 Volts, 60°C Through 90°C (140°F Through 194°F), Not More Than Three Current-Carrying Conductors In Raceway, Cable, Or Earth (Directly Buried). Based On Ambient Temperature Of 30°C (86°F).

Allowable Ampacities of Insulated Conductors			
Size AWG or kcmil	Temperature Rating of Conductor		
	60°C (140°F)	75°C (167°F)	90°C (194°F)
	COPPER		
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	335	380
500	320	380	430
600	350	420	475
700	385	460	520
750	400	475	535
800	410	490	555
900	435	520	585
1000	455	545	615
1250	495	590	665
1500	525	625	705
1750	545	650	735
2000	555	665	750

\*Refer to 310.15 (B)(2) for the ampacity correction factors where the ambient temperature is other than 30°C (86°F). Refer to 310.15(B)(3) (a) for more than three current-carrying conductors.

\*\*Refer to 240.4(D) for conductor overcurrent protection limitation.

# Allowable Ampacity Tables

Table 310.15(B)(2)(b) Ambient Temperature Correction Factors Based on 40°C (104°F)

For ambient temperatures other than 40°C (140°F), multiply the allowable ampacities specified in the ampacity table by the appropriate correction factor shown below.							
Ambient Temperature (°C)	Temperature Rating of Conductor						Ambient Temperature (°F)
	60°C	75°C	90°C	150°C	200°C	250°C	
10 or less	1.58	1.36	1.26	1.13	1.09	1.07	50 or less
11-15	1.50	1.31	1.22	1.11	1.08	1.06	51-59
16-20	1.41	1.25	1.18	1.09	1.06	1.05	60-68
21-25	1.32	1.20	1.14	1.07	1.05	1.04	69-77
26-30	1.22	1.13	1.10	1.04	1.03	1.02	78-86
31-35	1.12	1.07	1.05	1.02	1.02	1.01	87-95
36-40	1.00	1.00	1.00	1.00	1.00	1.00	96-104
41-45	0.87	0.93	0.95	0.98	0.98	0.99	105-113
46-50	0.71	0.85	0.89	0.95	0.97	0.98	114-122
51-55	0.50	0.76	0.84	0.93	0.95	0.96	123-131
56-60	-	0.65	0.77	0.90	0.94	0.95	132-140
61-65	-	0.53	0.71	0.88	0.90	0.94	141-149
66-70	-	0.38	0.63	0.85	0.88	0.93	150-158
71-75	-	-	0.55	0.83	0.87	0.91	169-167
76-80	-	-	0.45	0.80	0.83	0.90	168-176
81-90	-	-	-	0.74	0.80	0.87	177-194
91-100	-	-	-	0.67	0.79	0.85	195-212
101-110	-	-	-	0.60	0.75	0.82	213-230
111-120	-	-	-	0.52	0.71	0.79	231-248
121-130	-	-	-	0.43	0.66	0.76	249-266
131-140	-	-	-	0.30	0.61	0.72	267-284
141-160	-	-	-	-	0.50	0.65	285-320
161-180	-	-	-	-	0.35	0.58	321-356
181-200	-	-	-	-	-	0.49	357-392
201-225	-	-	-	-	-	0.35	393-437

Table 310.15(B)(3)(a) Adjustment Factors For More Than Three Current-Carrying Conductors

Number of Conductors <sup>1</sup>	Percent of Values in Table 310.15(B)(16) Through Table 310.15(B)(19) as Adjusted for Ambient Temperature if Necessary
4-6	80
7-9	70
10-20	50
21-30	45
31-40	40
40 and above	35

<sup>1</sup>Number of conductors is the total number of conductors in the raceway or cable, including spare conductors. The count shall be adjusted in accordance with 310.15(B)(5) and (6). The count shall not include conductors that are connected to electrical components that cannot be simultaneously energized.