

ALLOWABLE AMPACITIES OF INSULATED COPPER CONDUCTORS

*Single Conductor in Free Air
(Based on Room Temperature of 30°C/86°F)*

Size	Temperature Rating of Conductor (see Table of Conductor Applications)						
	60°C (140°F)	75°C (167°F)	85°-90°C (185°F)	110°C (230°F)	125°C (257°F)	200°C (392°F)	Bare & Covered Conductor
AWG							
MCM							
14	20	20	30†	40	40	45	30
12	25	25	40†	50	50	55	40
10	40	40	55†	65	70	75	55
8	55	65	70	85	90	100	70
6	80	95	100	120	125	135	100
4	105	125	135	160	170	180	130
3	120	145	155	180	195	210	150
2	140	170	180	210	225	240	175
1	165	195	210	245	265	280	205
0	195	230	245	285	305	325	235
00	225	265	285	330	355	370	275
000	260	310	330	385	410	430	320
0000	300	360	385	445	475	510	370
250	340	405	425	495	530	---	410
300	375	445	480	555	590	---	460
350	420	505	530	610	655	---	510
400	455	545	575	665	710	---	555
500	515	620	660	765	815	---	630
600	575	690	740	855	910	---	710
700	630	755	815	940	1005	---	780
750	655	785	845	980	1045	---	810
800	680	815	880	1020	1085	---	845
900	730	870	940	---	---	---	905
1000	780	935	1000	1165	1240	---	965
1250	890	1065	1130	---	---	---	---
1500	980	1175	1260	1450	---	---	1215
1750	1070	1280	1370	---	---	---	---
2000	1155	1385	1470	1715	---	---	1405

CORRECTION FACTORS, ROOM TEMPS. OVER 30°C/86°F

°C	°F							
40	104	0.82	0.88	0.90	0.94	0.95	---	---
45	113	0.71	0.82	0.85	0.90	0.92	---	---
50	122	0.58	0.75	0.8	0.87	0.89	---	---
55	131	0.41	0.67	0.74	0.83	0.86	---	---
60	140	---	0.58	0.67	0.79	0.83	0.91	---
70	158	---	0.35	0.52	0.71	0.76	0.87	---
75	167	---	---	0.43	0.66	0.72	0.86	---
80	176	---	---	0.3	0.61	0.69	0.84	---
90	194	---	---	---	0.5	0.61	0.8	---
100	212	---	---	---	---	0.51	0.77	---
120	248	---	---	---	---	---	0.69	---
140	284	---	---	---	---	---	0.59	---

These ampacities relate only to conductors described in the Table of Conductor Application

†The ampacities for Types FEP, FEPB, RHH, and THHN conductors for sizes AWG 14, 12 and 10 shall be the same as designated for 75°C conductors in this Table