

# ALLOWABLE AMPACITIES OF CONDUCTORS

Allowable Ampacities of **Single Insulated Conductors** Rated 0 - 2000 Volts in **Free Air**,  
Based on Ambient Air Temperature of **30°C (86°F)**

SIZE	60°C (140°F)	75°C (167°F)	90°C (194°F)	60°C (140°F)	75°C (167°F)	90°C (194°F)	SIZE
AWG or kcmil	TYPES TW, UF	TYPES RHW, THHW, THW, THWN, XHHW, 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	TYPES TW, UF	TYPES RHW, THHW, THW, THWN, XHHW,	TYPES TBS, SA, SIS, THHN, THHW, THW-2, THWN-2, RHH, RHW-2, USE-2, XHH, XHHW, XHHW-2, ZW-2	AWG or kcmil
<b>COPPER</b>				<b>ALUMINUM OR COPPER-CLAD ALUMINUM</b>			
14*	25	30	35	----	----	----	14
12*	30	35	40	25	30	35	12*
10*	40	50	55	35	40	40	10*
8	60	70	80	45	55	60	8
6	80	95	105	60	75	80	6
4	105	125	140	80	100	110	4
3	120	145	165	95	115	130	3
2	140	170	190	110	135	150	2
1	165	195	220	130	155	175	1
1/0	195	230	260	150	180	205	1/0
2/0	225	265	300	175	210	235	2/0
3/0	260	310	350	200	240	275	3/0
4/0	300	360	405	235	280	315	4/0
250	340	405	455	265	315	355	250
300	375	445	505	290	350	395	300
350	420	505	570	330	395	445	350
400	455	545	615	355	425	480	400
500	515	620	700	405	485	545	500
600	575	690	780	455	540	615	600
700	630	755	855	500	595	675	700
750	655	785	885	515	620	700	750
800	680	815	920	535	645	725	800
900	730	870	985	580	700	785	900
1000	780	935	1055	625	750	845	1000
1250	890	1065	1200	710	855	960	1250
1500	980	1175	1325	795	950	1075	1500
1750	1070	1280	1445	875	1050	1185	1750
2000	1155	1385	1560	960	1150	1335	2000

Ambient Temp C°	<b>TEMPERATURE CORRECTION FACTORS</b> For ambient temperatures other than 30°C multiply the allowable ampacities shown above by the appropriate factor shown below.						Ambient Temp F°
2° - 25	1.08	1.05	1.04	1.08	1.05	1.04	70 - 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 - 70	-----	0.33	0.58	-----	0.33	0.58	141 - 158
71 - 80	-----	-----	0.41	-----	-----	0.41	159 - 176

# ALLOWABLE AMPACITIES OF CONDUCTORS

Allowable Ampacities of Insulated Conductors Rated 0 - 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 Air Temperature of 30°C (86°F)

SIZE	60°C (140°F)	75°C (167°F)	90°C (194°F)	60°C (140°F)	75°C (167°F)	90°C (194°F)	SIZE
AWG or kcmil	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	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	AWG or kcmil
<b>COPPER</b>				<b>ALUMINUM OR COPPER-CLAD ALUMINUM</b>			
14*	20	20	25	----	----	----	14
12*	25	25	30	20	20	25	12*
10*	30	35	40	25	30	35	10*
8	40	50	55	30	40	45	8
6	55	65	75	40	50	60	6
4	70	85	95	55	65	75	4
3	85	100	110	65	75	85	3
2	95	115	130	75	90	100	2
1	110	130	150	85	100	115	1
1/0	125	150	170	100	120	135	1/0
2/0	145	175	195	115	135	150	2/0
3/0	165	200	225	130	155	175	3/0
4/0	195	230	260	150	180	205	4/0
250	215	255	290	170	205	230	250
300	240	285	320	190	230	255	300
350	260	310	350	210	250	280	350
400	280	335	380	225	270	305	400
500	320	380	430	260	310	350	500
600	355	420	475	285	340	385	600
700	385	460	520	310	375	420	700
750	400	475	535	320	385	435	750
800	410	490	555	330	395	450	800
900	435	520	585	355	425	480	900
1000	455	545	615	375	445	500	1000
1250	495	590	665	405	485	545	1250
1500	520	625	705	435	520	585	1500
1750	545	650	735	455	545	615	1750
2000	560	665	750	470	560	630	2000
Ambient Temp °C	<b>TEMPERATURE CORRECTION FACTORS</b> For ambient temperatures other than 30°C, multiply the allowable ampacities shown above by the appropriate factor shown below.						Ambient Temp °F
2° - 25	1.08	1.05	1.04	1.08	1.05	1.04	70 - 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 - 70	-----	0.33	0.58	-----	0.33	0.58	141 - 158
71 - 80	-----	-----	0.41	-----	-----	0.41	159 - 176