

Technical Data - Cable

NEC Ampacity Tables

■ Allowable Conductor Ampacity

■ Table 310.15(B)(16)

Allowable ampacities of insulated conductors rated 0 - 2000 Volts, 60° to 90°C (140° to 194°F) not more than three current carrying conductors in raceway or cable or earth (directly buried), based on ambient temperature of 30°C (86°F).

Size	Temperature Rating						
	60°C (140°F) Types		75°C (167°F) Types		90°C (194°F) Types		
	TW	UF	RHW THW XHHW ZW	THHW THWN USE	SIS MI THHN THWN-2 XHHW XHHW-2	TBS FEP RHH THHW USE-2 ZW-2	SA FEPB RHW-2 THW-2 XHH
18 AWG*	-	-	-	-	-	14	-
16 AWG*	-	-	-	-	-	18	-
14 AWG*	15	-	20	-	-	25	-
12 AWG*	20	-	25	-	-	30	-
10 AWG*	30	-	35	-	-	40	-
8 AWG	40	-	50	-	-	55	-
6 AWG	55	-	65	-	-	75	-
4 AWG	70	-	85	-	-	95	-
3 AWG	85	-	100	-	-	115	-
2 AWG	95	-	115	-	-	130	-
1 AWG	110	-	130	-	-	145	-
1/0 AWG	125	-	150	-	-	170	-
2/0 AWG	145	-	175	-	-	195	-
3/0 AWG	165	-	200	-	-	225	-
4/0 AWG	195	-	230	-	-	260	-
250 kcmil	215	-	255	-	-	290	-
300 kcmil	240	-	285	-	-	320	-
350 kcmil	260	-	310	-	-	350	-
400 kcmil	280	-	335	-	-	380	-
500 kcmil	320	-	380	-	-	430	-
600 kcmil	350	-	420	-	-	475	-
700 kcmil	385	-	460	-	-	520	-
750 kcmil	400	-	475	-	-	535	-
800 kcmil	410	-	490	-	-	555	-
900 kcmil	435	-	520	-	-	585	-
1000 kcmil	455	-	545	-	-	615	-
1250 kcmil	495	-	590	-	-	665	-
1500 kcmil	525	-	625	-	-	705	-
1750 kcmil	545	-	650	-	-	735	-
2000 kcmil	555	-	665	-	-	750	-

*Refer to 240.4(D) in 2014 NEC codebook for conductor overcurrent protection limitations

■ Table 310.15(B)(3)(a)

Adjustment Factors for More than Three Current-Carrying Conductors in a Raceway Cable.

Where the number of current-carrying conductors in a raceway or cable exceeds three, the allowable ampacities shall be reduced as shown.

Number of Current-Carrying Conductors*	Percent of Values in Table as Adjusted for Ambient Temperature
4 - 6	80
7 - 9	70
10 - 20	50
21 - 30	45
31 - 40	40
more than 40	35

■ Table 310.15(B)(17)

Allowable ampacities of single insulated conductors Rated 0 - 2000 Volts, in free air, based on ambient air temperature of 30°C (86°F).

Size	Temperature Rating						
	60°C (140°F) Types		75°C (167°F) Types		90°C (194°F) Types		
	TW	UF	RHW THW XHHW ZW	THHW THWN USE	SIS MI THHN THWN-2 XHHW XHHW-2	TBS FEP RHH THHW USE-2 ZW-2	SA FEPB RHW-2 THW-2 XHH
18 AWG	-	-	-	-	-	18	-
16 AWG	-	-	-	-	-	24	-
14 AWG*	25	-	30	-	-	35	-
12 AWG*	30	-	35	-	-	40	-
10 AWG*	40	-	50	-	-	55	-
8 AWG	60	-	70	-	-	80	-
6 AWG	80	-	95	-	-	105	-
4 AWG	105	-	125	-	-	140	-
3 AWG	120	-	145	-	-	165	-
2 AWG	140	-	170	-	-	190	-
1 AWG	165	-	195	-	-	220	-
1/0 AWG	195	-	230	-	-	260	-
2/0 AWG	225	-	265	-	-	300	-
3/0 AWG	260	-	310	-	-	350	-
4/0 AWG	300	-	360	-	-	405	-
250 kcmil	340	-	405	-	-	455	-
300 kcmil	375	-	445	-	-	500	-
350 kcmil	420	-	505	-	-	570	-
400 kcmil	455	-	545	-	-	615	-
500 kcmil	515	-	620	-	-	700	-
600 kcmil	575	-	690	-	-	780	-
700 kcmil	630	-	755	-	-	850	-
750 kcmil	655	-	785	-	-	885	-
800 kcmil	680	-	815	-	-	920	-
900 kcmil	730	-	870	-	-	980	-
1000 kcmil	780	-	935	-	-	1055	-
1250 kcmil	890	-	1065	-	-	1200	-
1500 kcmil	980	-	1175	-	-	1325	-
1750 kcmil	1070	-	1280	-	-	1445	-
2000 kcmil	1155	-	1385	-	-	1560	-

■ Table 310.15(B)(2)(a)

Temperature Correction Factors

For ambient temperature other than 30°C (86°F), multiply the allowable ampacities specified above by the appropriate correction factor shown below.

Ambient Temperature	60°C	75°C	90°C
20°C	1.15	1.11	1.08
30°C	1.00	1.00	1.00
40°C	0.82	0.88	0.91
50°C	0.58	0.75	0.82
60°C	-	0.58	0.71
70°C	-	0.33	0.58