



TECHNICAL DATA

90°C Ampacities

For portable cables based on continuous conductor temperature of 90°C (194°F) at an ambient temperature of 40°C

Amperes per Conductor (1)										
Size	Single Conductor				Two Conductor Round and Flat	Three Conductor Round and Flat	Three Conductor Round			Four Conductor
	0-2,000	2,001 - 8,000	8,001 - 15,000	15,001 - 25,000	0-2,000	0-5,000	0 - 8,000	8,001 - 15,000	15,001 - 25,000	0-2,000
AWG/ kcmil	Unshielded Volts	Shielded Volts*	Shielded Volts*	Shielded Volts*		Unshielded Volts	Shielded Volts	Shielded Volts	Shielded Volts	
8	83	-	-	-	72	59	-	-	-	54
6	109	112	-	-	95	79	93	-	-	72
4	145	148	-	-	127	104	122	-	-	93
3	167	171	-	-	145	120	140	-	-	106
2	192	195	195	-	167	138	159	164	178	122
1	223	225	225	222	191	161	184	187	191	143
1/0	258	260	259	255	217	186	211	215	218	165
2/0	298	299	298	293	250	215	243	246	249	192
3/0	345	345	343	337	286	249	279	283	286	221
4/0	400	400	397	389	328	287	321	325	327	255
250	445	444	440	430	363	320	355	359	360	280
350	552	549	543	529	436	394	435	-	-	335
500	695	688	678	659	524	487	536	-	-	395

(1) Tables reproduced from standards publication ICEA S-68-516, NEMA WC-8.

*These ampacities are based on single isolated cable in air operated with open-circuited shield.

Correction Factors

For ampacities for various ambient temperatures above or below 40°C.

Ambient Temp. Degrees C	Correction Factors 90°C
10	1.26
20	1.18
30	1.10
40	1.00
50	0.90

Reel Correction Factors

For use with ampacities when one or more layers of cable are wound on a reel. (1)

Number of Layers"	Multiplying Correction Factors
1	0.85
2	0.65
3	0.45
4	0.35

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