



<http://www.prioritywire.com>

Little Rock  
1-800-945-5542  
Houston  
1-888-388-6280  
Baton Rouge  
1-888-754-5707

# 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 AWG MCM	Single Conductor				Two Conductor Round and Flat	Three Conductor Round and Flat	Three Conductor Round			Four Conductor
	0-2,000 Volts Unshielded	2,001- 8,000 Volts* Shielded	8,001- 15,000 Volts* Shielded	15,001- 25,000 Volts* Shielded	0-2,000 Volts	0-5,000 Volts Unshielded	8,000 Volts Shielded	8,001- 15,000 Volts Shielded	15,001- 25,000 Volts Shielded	0-2,000 Volts
8	83	—	—	—	72	59	—	—	—	54
6	109	112	—	—	95	79	93	—	—	72
4	145	148	—	—	127	104	122	—	v	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	.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

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

**1-800-945-5542**