

## Wire and Cable Ampacities \*

Copper			Size AWG or kcmil	Aluminum		
TW, NM-B, UF (60°C)	RHW, THW, THWN, XHHW, USE (75°C)	RHH, THHN, THWN- 2, XHHW-2, SE, RHW-2, USE-2 (90°C)		RHH, THHN, THWN- 2, XHHW-2, SE, RHW-2, USE-2 (90°C)	RHW, THW, THWN, XHHW, USE (75°C)	RHH, THHN, THWN-2, XHHW-2, SE, RHW-2, USE-2 (90°C)
15	15	15	14 **	-	-	-
20	20	20	12 **	15	15	15
30	30	30	10 **	25	25	25
40	50	55	8	30	40	45
55	65	75	6	40	50	60
70	85	95	4	55	65	75
85	100	110	3	65	75	85
95	115	130	2	75	90	100
110	130	150	1	85	100	115
125	150	170	1/0	100	120	135
145	175	195	2/0	115	135	150
165	200	225	3/0	130	155	175
195	230	260	4/0	150	180	205
215	255	290	250	170	205	230
240	285	320	300	190	230	255
260	310	350	350	210	250	280
280	335	380	400	225	270	305
320	380	430	500	260	310	350
355	420	475	600	285	340	385
385	460	520	700	310	375	420
400	475	535	750	320	385	435
410	490	555	800	330	395	450
435	520	585	900	355	425	480
455	545	615	1000	375	445	500

\*Ampacity is based upon the National Electrical Code® (NEC®), 2008, Table 310.16. Allowable Ampacities of insulated conductors rated 0 through 2000 Volts, 60°C to 90°C (140°F to 194°F) and not more than three current-carrying conductors in raceway or cable or earth. Based on ambient temperature of 30°C (86°F).

\*\*Small conductor (14-10 AWG) ampacities shown are per National Electrical Code®(NEC®) 240.4(D)

Single Conductors	
Cerrowire™ single conductor types (excluding TFFN) are pulled through conduit for use in branch circuits, feeders, or service entrance conductors as specified in the NEC®. The voltage rating for all Cerrowire™ single conductor type is 600V.	
THHN	Type THHN or THWN - may be used in wet or dry locations at conductor temperatures not to exceed 90°C. If marked MTW it may be used as machine tool wiring at conductor temperatures not to exceed 60°C. AWM marking signifies appliance wiring material at conductor temperatures not to exceed 105°C. Sizes 1/0 and larger is suitable for use in cable trays.
USE	Type USE-2, RHH and RHW-2 can be used for underground service entrance, including direct burial. It may be used in wet or dry locations at conductor temperatures not to exceed 90°C.
XHHW-2	Type XHHW-2 may be used in wet or dry locations where conductor temperatures do not exceed 90°C.
TFFN	Type TFFN can be used as fixture wire where conductor temperatures do not exceed 90°C. It may also be used as MTW at conductor temperatures not to exceed 60°C or as AWM at 105°C.

<b>Multiple Conductors</b>	
Cerrowire™ multiple conductor cables are recommended for use as specified in the NEC®. The voltage rating for all Cerrowire™ single conductor type is 600V.	
NM-B	Type NM-B is primarily used in residential wiring as branch circuits for outlets, switches, and other loads. NM-B may be used for both exposed and concealed work in dry locations at conductor temperatures not to exceed 90°C. Ampacity limited to 60°C for conductors.
UF-B	Type UF-B may be used underground, including direct burial, for supplying power to outside lamp posts, well pumps, workshops, etc. May be used for interior branch circuit wiring in dry, wet, or corrosive locations at conductor temperatures not to exceed 90°C. Ampacity limited to 60°C for conductors.
SEU	Service Entrance Cable, Type SEU, is typically used in residential buildings to transfer power from the service drop to the panel box. Each phase conductor is type XHHW-2 which is suitable for use where conductor temperatures do not exceed 90°C.
SER	Service Entrance Cable, Type SER, is normally used in multi-family residential housing to take power from meter base to panel box in an individual apartment. Each phase conductor is Type XHHW-2 for use where conductor temperatures do not exceed 90°C.
Mobile Home Feeder	Mobile Home Feeder is used to connect a mobile home to an electrical supply where permanent wiring is required as specified in the NEC®. Each conductor is Type USE-2, RHH and RHW-2 which is suitable for direct burial at conductor temperatures not to exceed 90°C.