

310.20 Ampacities of Conductors Supported on a Messenger. The ampacities shall be as specified in Table 310.20 where all of the following conditions apply:

- (1) Conductors are rated 0 volts through 2000 volts.
- (2) Conductors are rated 75°C (167°F) or 90°C (194°F).
- (3) Wiring is installed in a 40°C (104°F) ambient temperature.
- (4) There are not more than three single-insulated conductors.

310.21 Ampacities of Bare or Covered Conductors in Free Air. The ampacities shall be as specified in Table 310.21 where all of the following conditions apply:

- (1) Wind velocity is 610 mm/sec (2 ft/sec).
- (2) Conductors are 80°C (176°F) total conductor temperature.
- (3) Wiring is installed in a 40°C (104°F) ambient temperature.

TABLE 310.20 *Ampacities of Conductors on a Messenger*

Size AWG or kcmil	Temperature Rating of Conductor [See Table 310.4(1)]				Size AWG or kcmil
	75°C (167°F)	90°C (194°F)	75°C (167°F)	90°C (194°F)	
	Types RHW, THHW, THW, THWN, XHHW, XHWN, ZW	Types MI, THHN, THHW, THW-2, THWN-2, RHH, RHW-2, USE-2, XHHW, XHHW-2, XHWN-2, ZW-2	Types RHW, THW, THWN, THHW, XHHW, XHWN	Types THHN, THHW, RHH, XHHW, RHW-2, XHHW-2, THW-2, THWN-2, XHWN-2, USE-2, ZW-2	
	COPPER		ALUMINUM OR COPPER-CLAD ALUMINUM		
8	57	66	44	51	8
6	76	89	59	69	6
4	101	117	78	91	4
3	118	138	92	107	3
2	135	158	106	123	2
1	158	185	123	144	1
1/0	183	214	143	167	1/0
2/0	212	247	165	193	2/0
3/0	245	287	192	224	3/0
4/0	287	335	224	262	4/0
250	320	374	251	292	250
300	359	419	282	328	300
350	397	464	312	364	350
400	430	503	339	395	400
500	496	580	392	458	500
600	553	647	440	514	600
700	610	714	488	570	700
750	638	747	512	598	750
800	660	773	532	622	800
900	704	826	572	669	900
1000	748	879	612	716	1000

Notes:

1. Section 310.15(B) shall be referenced for ampacity correction factors where the ambient temperature is other than 40°C (104°F).
2. Section 310.15(C)(1) shall be referenced for more than three current-carrying conductors.
3. Section 310.20 shall be referenced for conditions of use.