

BARE COPPER—continued.

(E.) 19/052 in.

Constants.—Area, 0.0403 sq. in.; diameter, 0.260 in.; loading factor, 1.923; maximum tension in conductor, 1,008 lb.; weight, 0.1582 lb. per foot.

Span.	Datum.		Degrees Fahrenheit above Datum.									
	0.		20.		40.		60.		80.		100.	
	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.
Ft.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.
120 ..	979 0	3 1/2	846 0	4	716 0	4 3/4	589 0	5 3/4	469 0	7 1/2	364 0	9 1/2
140 ..	970 0	4 3/4	838 0	5 1/2	709 0	6 1/2	586 0	8	472 0	10	374 1	0
160 ..	958 0	6 1/2	828 0	7 1/2	702 0	8 1/2	583 0	10 1/2	475 1	1	383 1	4
180 ..	946 0	8	817 0	9 1/2	696 0	11	580 1	1	478 1	4	392 1	8

(F.) 19/064 in. (19/16 S.W.G.)

Constants.—Area, 0.0611 sq. in.; diameter, 0.320 in.; loading factor, 1.667; maximum tension in conductor, 1,528 lb.; weight, 0.2400 lb. per foot.

Span.	Datum.		Degrees Fahrenheit above Datum.									
	0.		20.		40.		60.		80.		100.	
	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.
Ft.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.
120 ..	1500 0	3 1/2	1298 0	4	1098 0	4 3/4	905 0	5 3/4	724 0	7 1/4	563 0	9 1/4
140 ..	1489 0	4 3/4	1289 0	5 1/2	1093 0	6 1/2	905 0	7 3/4	731 0	9 3/4	580 1	0 1/4
160 ..	1479 0	6 1/4	1281 0	7 1/4	1089 0	8 1/2	906 0	10 1/4	740 1	0 3/4	597 1	3 1/2
180 ..	1466 0	8	1271 0	9 1/4	1083 0	10 3/4	906 1	0 3/4	747 1	3 1/2	611 1	7

TABLE II.—TRIPLE-BRAIDED (H.D.) COPPER.

Wind, 12 lb. per square foot of diametral plane.

Constants.—Coefficient of thermal expansion = 9.45×10^{-6} per degree Fahrenheit; minimum allowable stress = 25,000 lb. per square inch; modulus of elasticity = 18×10^6 lb. per square inch.

NOTE.—In computing the loading factor for this table the weight and diameter of the covered wire only has been used.

(A.) 7/044 in.

Constants.—Area (copper), 0.01064 sq. in.; diameter (covered), 0.280 in.; loading factor, 4.19; maximum tension in conductor, 266 lb.; weight of covered conductor, 0.0687 lb. per foot.

Span.	Datum.		Degrees Fahrenheit above Datum.									
	0.		20.		40.		60.		80.		100.	
	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.
Ft.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.
120 ..	154 0	9 1/2	128 0	11 1/2	106 1	2	90 1	5	77 1	7	68 1	10
140 ..	127 1	4	108 1	7	94 1	10	82 2	1	73 2	4	67 2	6
160 ..	108 2	0	96 2	4	85 2	7	77 2	10	71 3	1	66 3	4
180 ..	96 2	11	87 3	2	80 3	6	74 3	9	70 4	0	65 4	3

(B.) 7/052 in.

Constants.—Area (copper), 0.01483 sq. in.; diameter (covered), 0.327 in.; loading factor, 3.58; maximum tension in conductor, 371 lb.; weight of covered conductor, 0.0882 lb. per foot.

Span.	Datum.		Degrees Fahrenheit above Datum.									
	0.		20.		40.		60.		80.		100.	
	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.	Ten.	Sag.
Ft.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.
120 ..	271 0	7	227 0	8 1/2	188 0	10	155 1	0	128 1	3	108 1	6
140 ..	241 0	11	203 1	1	169 1	3	143 1	6	123 1	9	107 2	0
160 ..	213 1	4	181 1	7	155 1	10	135 2	1	119 2	4	107 2	8
180 ..	188 1	11	163 2	2	144 2	6	128 2	9	116 3	1	106 3	4