

TRIPLE-BRAIDED COPPER—continued.

(G.) 19/072 in. (19/15 S.W.G.).

Constants.—Area (copper), 0.0774 sq. in.; diameter (covered), 0.642 in.; loading factor, 1.85; maximum tension in conductor, 1,935 lb.; weight of covered conductor, 0.4131 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.	lb.	Ft. in.
120 ..	1894 0	4 3/4	1600 0	5 1/4	1360 0	6 1/4	1127 0	8	928 0	9 1/2	754 1	1 0		
140 ..	1816 0	6 1/4	1573 0	7 1/2	1339 0	8 1/2	1122 0	10 1/2	930 1	1 1	770 1	1 4		
160 ..	1783 0	9	1546 0	10	1322 1	0	1117 1	2	939 1	5	792 1	8		
180 ..	1747 0	11	1517 1	1 1	1303 1	3	1111 1	6	947 1	9	812 2	1		

(H.) 19/083 in.

Constants.—Area (copper), 0.1028 sq. in.; diameter (covered), 0.698 in.; loading factor, 1.65; maximum tension in conductor, 2,570 lb.; weight of covered conductor, 0.5276 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.	lb.	Ft. in.
120 ..	2493 0	4 3/4	2160 0	5 1/4	1836 0	6 1/4	1528 0	7 1/2	1245 0	9	1003 0	11		
140 ..	2466 0	6 1/4	2140 0	7	1825 0	8 1/2	1529 0	10	1263 1	0	1039 1	3		
160 ..	2436 0	8 1/4	2116 0	9 1/2	1811 0	11	1529 1	1	1279 1	4	1071 1	7		
180 ..	2403 0	11	2093 1	0	1800 1	2	1530 1	5	1298 1	8	1105 1	11		

TABLE III.—V.I.R. (H.D.) COPPER.

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

Constants.—Coefficient of thermal expansion = 9.45×10^{-6} per degree Fahrenheit; maximum 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), 0.287 in.; loading factor, 4.13; maximum tension in conductor, 266 lb.; weight of covered conductor, 0.0717 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.	lb.	Ft. in.
120 ..	150 0	10	125 1	0	105 1	3	90 1	5	78 1	8	69 1	11		
140 ..	125 1	5	107 1	8	93 1	11	83 2	2	74 2	4	68 2	7		
160 ..	106 2	2	95 2	5	85 2	8	78 2	11	72 3	2	67 3	5		
180 ..	95 3	1	87 3	4	80 3	7	75 3	11	70 4	2	67 4	4		

(B.) 7/052 in.

Constants.—Area (copper), 0.01483 sq. in.; diameter (covered), 0.317 in.; loading factor, 3.51; maximum tension in conductor, 371 lb.; weight of covered conductor, 0.0945 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.	lb.	Ft. in.
120 ..	264 0	7 3/4	221 0	9	183 0	11	152 1	1	127 1	4	110 1	7		
140 ..	233 0	11	196 1	2	166 1	5	141 1	8	122 1	11	108 2	2		
160 ..	204 1	6	175 1	9	152 2	0	133 2	3	119 2	6	108 2	9		
180 ..	181 2	1	160 2	5	141 2	8	128 3	0	116 3	3	107 3	7		