

V.I.R. COPPER—continued.

(G.) 19/083 in.

Constants.—Area (copper), 0.1028 sq. in.; diameter (covered), 0.663 in.; loading factor, 1.6; maximum tension in conductor, 2,570 lb.; weight of covered conductor, 0.533 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 ..	2498 0	4 1/2	2165 0	5 1/4	1842 0	6 1/4	1534 0	7 1/2	1252 0	9	1016 0	11
140 ..	2473 0	6 3/4	2147 0	7 3/4	1833 0	8 3/4	1537 0	10	1272 1	0	1048 1	3
160 ..	2445 0	8 1/2	2126 0	9 1/2	1822 0	11	1541 1	1	1291 1	4	1083 1	7
180 ..	2415 0	11	2105 1	0	1812 1	2	1544 1	5	1311 1	8	1117 1	11

TABLE IV.—BARE (H.D.) COPPER.

Wind, 18 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.

(A.) 1/160 in. (8 S.W.G.).

Constants.—Area, 0.02011 sq. in.; diameter, 0.160 in.; loading factor, 3.25; maximum tension in conductor, 503 lb.; weight, 0.0775 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.
180 ..	398 0	9 1/2	337 0	11	279 1	1	228 1	4	188 1	8	157 2	0
220 ..	354 1	4	299 1	7	251 1	10	211 2	3	180 2	7	156 3	0
260 ..	310 2	0	264 2	6	227 2	11	197 3	4	174 3	9	156 4	2
300 ..	271 3	3	237 3	8	209 4	2	187 4	8	170 5	2	156 5	7
340 ..	242 4	8	217 5	2	197 5	8	180 6	2	167 6	8	155 7	2
380 ..	221 6	4	203 6	11	188 7	5	175 8	0	164 8	6	155 9	0

(B.) 7/044 in.

Constants.—Area, 0.01064 sq. in.; diameter, 0.132 in.; loading factor, 4.86; maximum tension in conductor, 266 lb.; weight, 0.0418 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.
180 ..	139 1	2	114 1	6	94 1	10	79 2	2	68 2	6	60 2	10
220 ..	104 2	5	91 2	9	79 3	2	70 3	7	63 4	0	58 4	4
260 ..	84 4	2	76 4	8	70 5	0	64 5	6	60 5	11	57 6	2
300 ..	75 6	3	70 6	9	66 7	2	62 7	7	58 8	1	56 8	4
340 ..	70 8	7	66 9	2	63 9	7	60 10	0	58 10	5	56 10	11
380 ..	66 11	5	63 12	0	61 12	4	59 12	9	57 13	3	55 13	8

(C.) 7/052 in.

Constants.—Area, 0.01483 sq. in.; diameter, 0.156 in.; loading factor, 4.17; maximum tension in conductor, 371 lb.; weight, 0.0583 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.
180 ..	237 1	0	197 1	2	161 1	5	133 1	9	112 2	1	96 2	5
220 ..	190 1	10	160 2	2	136 2	7	119 3	0	105 3	4	94 3	9
260 ..	155 3	2	136 3	7	121 4	1	110 4	6	101 4	10	93 5	4
300 ..	133 4	11	121 5	5	112 5	10	104 6	4	98 6	8	92 7	2
340 ..	120 7	0	113 7	5	106 7	11	100 8	5	96 8	9	91 9	3
380 ..	112 9	4	107 9	10	102 10	4	98 10	9	94 11	2	91 11	7