

BARE GALVANIZED STEEL—continued.

34,000 lb. BASIS. (C.) 7/064 in. (7/16 S.W.G.).

Constants.—Area, 0.02252 sq. in.; breaking-strength, 1,532 lb.; diameter, 0.192 in.; loading factor, 3.832; maximum tension in conductor, 766 lb.; weight, 0.07785 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 ..	649 0	5 3/4	567 0	6 3/4	487 0	7 3/4	411 0	9 1/4	339 0	11 1/4	276 1	1 3/4
220 ..	595 0	9 3/4	516 0	11	441 1	0 3/4	372 1	3 1/4	310 1	6	259 1	10
260 ..	535 1	2 3/4	462 1	5	394 1	8	336 1	11 1/2	286 2	3 3/4	246 2	8
300 ..	472 1	10	408 2	2	351 2	6	305 2	10	266 3	3	236 3	9
340 ..	413 2	9	361 3	1	317 3	7	281 4	0	252 4	6	228 4	11
380 ..	364 3	10	324 4	4	291 4	10	264 5	4	242 5	10	223 6	4

34,000 lb. BASIS. (D.) 5/080 in. (5/14 S.W.G.).

Constants.—Area, 0.02513 sq. in.; breaking-strength, 1,710 lb.; diameter, 0.216 in.; loading factor, 3.865; maximum tension in conductor, 855 lb.; weight, 0.08679 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 ..	723 0	11 3/4	631 1	1 1/4	542 1	3 1/2	456 1	6 1/2	377 1	10 1/2	307 2	3 1/2
220 ..	661 1	7	574 1	10	490 2	1 3/4	413 2	6	344 3	1	288 3	8
260 ..	593 2	5 1/2	511 2	10	437 3	4	371 3	11	316 4	8	273 5	4
300 ..	522 3	9	451 4	4	389 5	0	337 5	10	295 6	7	261 7	6
340 ..	456 5	6	398 6	4	350 7	2	311 8	1	279 9	0	253 9	11
380 ..	402 7	10	358 8	9	322 9	9	292 10	9	267 11	9	247 12	8

34,000 lb. BASIS. (E.) 7/080 in. (7/14 S.W.G.).

Constants.—Area, 0.03519 sq. in.; breaking-strength, 2,392 lb.; diameter, 0.240 in.; loading factor, 3.124; maximum tension in conductor, 1,196 lb.; weight, 0.1216 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 ..	1079 0	5 1/2	950 0	6 1/4	823 0	7 1/2	750 0	8 1/2	584 0	10 1/4	478 1	0 1/2
220 ..	1023 0	8 3/4	898 0	9 3/4	776 0	11 1/2	660 1	1 1/2	554 1	4	462 1	7
260 ..	961 1	0 3/4	840 1	2 3/4	726 1	5	621 1	8	528 1	11 1/2	449 2	3 1/2
300 ..	892 1	6 1/2	779 1	9	675 2	0 1/2	582 2	4	503 2	9	438 3	1 1/2
340 ..	821 2	1 1/2	719 2	5 1/2	627 2	10	548 3	3	482 3	8	428 4	1
380 ..	753 2	11	663 3	4	585 3	9	520 4	3	466 4	9	422 5	2 1/2

TABLE XII.—BARE GALVANIZED STEEL, 45,000 lb. BASIS.

Wind, 18 lb. per square foot of diametral plane.

Constants.—Coefficient of thermal expansion = 6.8×10^{-6} per degree Fahrenheit; maximum allowable stress = 45,000 lb. per square inch; modulus of elasticity = 28×10^6 lb. per square inch.

NOTE.—This table is for use with conductors having a breaking-strength not less than that stated for each size of conductor.

45,000 lb. BASIS. (A.) 1/160 in. (8 S.W.G.).

Constants.—Area, 0.02011 sq. in.; breaking-strength, 1,810 lb.; diameter, 0.160 in.; loading factor, 3.652; maximum tension in conductor, 905 lb.; weight, 0.06834 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.
Chains.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.	lb.	Ft. in.
5 ..	732 1	3 1/4	661 1	5	592 1	7	524 1	9	461 2	0	402 2	3 1/2
6 ..	664 2	0	596 2	3	533 2	6	472 2	10	418 3	3	369 3	7 1/2
7 ..	591 3	1	530 3	5	475 3	10	424 4	4	380 4	10	342 5	4
8 ..	520 4	7	469 5	1	424 5	7	384 6	2 1/2	350 6	10	321 7	5