

SAG TABLE, Inches
ACSR, #2, 6/1 Strand, Bare Conductor (Sparrow)
Ampacity = 190 Amps, continuous/summer normal rating

Span Length in Feet	Temperature Degrees F.						
	0	15	30	45	60	75	90
200 Ft. Maximum Span							
80	2	2	2	2	3	3	4
100	2	3	3	3	4	5	6
120	3	3	4	4	5	6	8
140	4	5	5	6	7	9	11
160	5	6	7	8	9	11	14
180	6	7	8	9	11	14	17
200	8	9	10	11	14	17	21
Tension at Initial Sag	741	662	581	497	414	334	264
Ruling Span 160 Feet, Heavy Loading Tension = 1159 Lbs.							
300 Ft. Maximum Span							
120	3	3	3	4	4	5	6
140	4	4	4	5	5	6	8
160	5	5	5	6	7	8	11
180	6	6	7	8	9	10	13
200	7	7	8	9	10	12	16
220	8	9	10	11	13	15	20
240	10	11	12	13	15	17	23
260	11	12	14	15	17	20	27
280	13	14	16	18	20	23	32
300	15	16	18	20	23	27	36
Tension at Initial Sag	857	783	707	628	549	471	398
Ruling Span 240 Feet, Heavy Loading Tension = 1429 Lbs.							

MAINTENANCE ONLY

375 Ft. Maximum Span							
160	4	4	5	5	6	6	7
180	5	6	6	7	7	8	9
200	6	7	7	8	9	10	11
220	7	8	9	9	11	12	13
240	9	9	10	11	12	14	16
260	10	11	12	13	14	16	19
280	12	13	14	15	17	19	22
300	13	14	16	17	19	22	25
320	15	16	18	19	22	24	28
340	17	18	20	22	24	28	32
360	19	21	22	25	27	31	35
375	21	22	24	27	30	33	38
Tension at Initial Sag	954	883	811	736	660	583	509
Ruling Span 300 Feet, Heavy Loading Tension = 1612 Lbs.							

Rated Breaking Strength = 2,850 Lbs.

SAG TABLE, Inches
ACSR, #2, 7/1 Strand, Bare Conductor (Sparate)
Ampacity = 190 Amps, continuous/summer normal rating

Span Length in Feet	Temperature Degrees F.						
	0	15	30	45	60	75	90
200 Ft. Maximum Span							
80	2	2	2	2	3	3	4
100	2	3	3	3	4	5	6
120	3	3	4	5	5	7	8
140	4	5	5	6	7	9	11
160	5	6	7	8	9	11	14
180	7	7	8	10	11	14	18
200	8	9	10	12	14	17	22
Tension at Initial Sag	865	772	675	576	477	384	303
Ruling Span 160 Feet, Heavy Loading Tension = 1299 Lbs.							
300 Ft. Maximum Span							
120	3	3	3	4	4	5	6
140	4	4	4	5	6	7	8
160	5	5	6	6	7	8	10
180	6	6	7	8	9	11	12
200	7	8	9	10	11	13	15
220	9	9	10	12	13	16	18
240	10	11	12	14	16	18	22
260	12	13	14	16	18	21	25
280	13	15	16	18	21	25	29
300	15	17	19	21	24	28	34
Tension at Initial Sag	971	883	793	700	607	518	435
Ruling Span 240 Feet, Heavy Loading Tension = 1581 Lbs.							
375 Ft. Maximum Span							
160	4	5	5	6	6	7	8
180	5	6	6	7	8	9	10
200	7	7	8	9	10	11	12
220	8	8	9	10	11	13	15
240	9	10	10	12	14	15	18
260	11	12	12	14	16	18	21
280	12	13	14	16	18	21	24
300	14	15	16	19	21	24	27
320	16	17	19	21	24	27	31
340	18	20	21	24	27	30	35
360	20	22	24	27	30	34	39
375	22	24	26	29	32	37	42
Tension at Initial Sag	1058	974	888	799	710	622	538
Ruling Span 300 Feet, Heavy Loading Tension = 1774 Lbs.							

Rated Breaking Strength = 3,640 Lbs.

SAG TABLE, Inches
ACSR, 1/0, 6/1 Strand, Bare Conductor (Raven)
Ampacity = 250 Amps, continuous/summer normal rating

Span Length in Feet	Temperature Degrees F.						
	0	15	30	45	60	75	90
200 Ft. Maximum Span							
80	2	2	2	2	3	3	4
100	3	3	3	4	4	5	6
120	3	4	4	5	6	7	8
140	4	5	6	6	8	9	11
160	6	6	7	8	10	12	15
180	7	8	9	10	12	15	18
200	9	10	11	13	15	18	22
Tension at Initial Sag	1066	951	834	716	600	491	396
Ruling Span 160 Feet, Heavy Loading Tension = 1514 Lbs.							
300 Ft. Maximum Span							
120	3	3	4	4	5	5	6
140	4	4	5	6	6	7	8
160	5	6	6	7	8	9	11
180	6	7	8	9	10	12	13
200	8	9	10	11	12	14	17
220	9	10	11	13	15	17	20
240	11	12	14	15	17	20	24
260	13	14	16	18	20	24	28
280	15	16	18	21	24	27	32
300	17	19	21	24	27	31	37
Tension at Initial Sag	1183	1073	962	850	741	637	543
Ruling Span 240 Feet, Heavy Loading Tension = 1833 Lbs.							
375 Ft. Maximum Span							
160	5	5	6	6	7	8	9
180	6	7	7	8	9	10	11
200	7	8	9	10	11	12	14
220	9	10	10	12	13	15	17
240	10	11	12	14	15	17	20
260	12	13	14	16	18	20	23
280	14	15	17	18	21	24	27
300	16	17	19	21	24	27	31
320	18	20	22	24	27	31	35
340	20	22	24	27	30	34	39
360	23	25	27	30	34	39	44
375	25	27	29	33	37	42	48
Tension at Initial Sag	1269	1163	1056	948	842	741	647
Ruling Span 300 Feet, Heavy Loading Tension = 2050 Lbs.							

Rated Breaking Strength = 4,380 Lbs.

SAG TABLE, Inches
ACSR, 2/0, 6/1 Strand, Bare Conductor (Quail)
Ampacity = 290 Amps, continuous/summer normal rating


Span Length in Feet	Temperature Degrees F.						
	0	15	30	45	60	75	90
200 Ft. Maximum Span							
80	2	2	2	3	3	4	5
100	3	3	3	4	5	6	7
120	4	4	5	5	6	8	10
140	5	5	6	7	9	10	13
160	6	7	8	9	11	13	17
180	8	9	10	11	14	17	21
200	9	10	12	14	17	21	26
Tension at Initial Sag	1252	1105	957	810	669	542	439
Ruling Span 160 Feet, Heavy Loading Tension = 1737 Lbs.							
300 Ft. Maximum Span							
120	3	4	4	5	5	6	7
140	4	5	5	6	7	8	10
160	6	6	7	8	9	11	12
180	7	8	9	10	11	13	15
200	9	9	11	12	14	16	19
220	10	11	13	15	17	20	23
240	12	13	15	17	20	23	27
260	14	16	18	20	23	27	32
280	16	18	20	23	27	31	37
300	19	21	23	27	31	36	42
Tension at Initial Sag	1364	1225	1085	948	817	697	594
Ruling Span 240 Feet, Heavy Loading Tension = 2086 Lbs.							
375 Ft. Maximum Span							
160	5	6	6	7	8	9	11
180	7	7	8	9	10	12	13
200	8	9	10	11	12	14	16
220	10	11	12	13	15	17	19
240	11	13	14	16	18	20	23
260	13	15	16	18	21	24	27
280	15	17	19	21	24	27	31
300	18	19	22	24	27	31	36
320	20	22	24	27	31	36	41
340	22	25	27	31	35	40	46
360	25	28	31	35	39	45	51
375	27	30	33	37	43	49	56
Tension at Initial Sag	1445	1310	1176	1044	918	802	700
Ruling Span 300 Feet, Heavy Loading Tension = 2323 Lbs.							

Rated Breaking Strength = 5,310 Lbs.

SAG TABLE, Inches
ACSR, 3/0, 6/1 Strand, Bare Conductor (Pigeon)
Ampacity = 340 Amps, continuous/summer normal rating

Span Length in Feet	Temperature Degrees F.						
	0	15	30	45	60	75	90
200 Ft. Maximum Span							
80	2	2	2	3	3	4	5
100	3	3	4	4	5	6	7
120	4	4	5	6	7	8	10
140	5	6	6	8	9	11	14
160	6	7	8	10	12	14	18
180	8	9	10	12	15	18	22
200	10	11	13	15	18	22	27
Tension at Initial Sag	1513	1328	1142	959	787	636	517
Ruling Span 160 Feet, Heavy Loading Tension = 2024 Lbs.							
300 Ft. Maximum Span							
120	4	4	4	5	6	7	8
140	5	5	6	7	8	9	10
160	6	7	7	9	10	11	13
180	7	8	9	11	12	14	17
200	9	10	11	13	15	18	21
220	11	12	14	16	18	21	25
240	13	14	16	19	22	25	29
260	15	17	19	22	25	29	34
280	17	19	22	25	29	34	40
300	20	22	25	29	33	39	46
Tension at Initial Sag	1625	1450	1276	1107	949	809	692
Ruling Span 240 Feet, Heavy Loading Tension = 2405 Lbs.							
375 Ft. Maximum Span							
160	6	6	7	8	9	10	11
180	7	8	9	10	11	13	14
200	9	10	11	12	14	16	18
220	10	11	13	14	16	19	21
240	12	14	15	17	19	22	25
260	14	16	18	20	23	26	30
280	16	18	20	23	26	30	34
300	19	21	23	26	30	34	39
320	21	24	26	30	34	39	44
340	24	27	30	34	38	44	50
360	27	30	33	38	43	49	56
375	29	32	36	41	47	53	61
Tension at Initial Sag	1702	1534	1368	1207	1057	923	808
Ruling Span 300 Feet, Heavy Loading Tension = 2664 Lbs.							

Rated Breaking Strength = 6,620 Lbs.

	Design and Construction Manual	Date: 04-05 Supersedes: 02-00	

SAG TABLE, Inches
ACSR, 336, 18/1 Strand, Bare Conductor (Merlin)
Ampacity = 515 Amps, continuous/summer normal rating


Span Length in Feet	Temperature Degrees F.						
	0	15	30	45	60	75	90
200 Ft. Maximum Span							
80	2	3	3	4	5	6	7
100	3	4	5	6	8	9	11
120	5	5	7	9	11	13	16
140	6	7	9	12	15	18	21
160	8	9	12	15	19	23	27
180	10	12	15	19	24	29	34
200	12	14	18	23	30	36	42
Tension at Initial Sag	1930	1578	1244	961	754	616	523
Ruling Span 160 Feet, Heavy Loading Tension = 2620 Lbs.							
300 Ft. Maximum Span							
120	4	5	6	7	8	10	11
140	6	7	8	10	11	13	15
160	7	9	10	12	15	17	19
180	9	11	13	16	18	22	25
200	11	13	16	19	23	26	30
220	13	16	19	23	27	32	36
240	16	19	23	27	32	38	43
260	19	22	26	32	38	44	51
280	22	25	31	37	44	51	59
300	25	29	35	42	50	59	67
Tension at Initial Sag	2043	1723	1429	1180	986	843	738
Ruling Span 240 Feet, Heavy Loading Tension = 3087 Lbs.							
375 Ft. Maximum Span							
160	7	8	10	11	13	15	16
180	9	10	12	14	16	18	21
200	11	13	15	17	20	23	25
220	13	15	18	21	24	27	31
240	15	18	21	24	28	32	36
260	18	21	24	29	33	38	43
280	21	24	28	33	38	44	49
300	24	28	32	38	44	50	56
320	27	31	37	43	50	57	64
340	30	35	41	49	56	64	72
360	34	40	46	54	63	72	81
375	37	43	50	59	69	78	88
Tension at Initial Sag	2114	1817	1546	1316	1132	990	880
Ruling Span 300 Feet, Heavy Loading Tension = 3399 Lbs.							

Rated Breaking Strength = 8,680 Lbs.

SAG TABLE, Inches
ACSR, 336, 26/7 Strand, Bare Conductor (Linnet)
Ampacity = 515 Amps, continuous/summer normal rating

Span Length in Feet	Temperature Degrees F.						
	0	15	30	45	60	75	90
200 Ft. Maximum Span							
80	2	2	2	3	3	4	5
100	3	3	4	4	5	6	7
120	4	4	5	6	7	8	10
140	5	6	6	8	9	11	13
160	6	7	8	10	12	14	17
180	8	9	10	12	15	18	22
200	10	11	13	15	18	22	27
Tension at Initial Sag	2987	2632	2275	1924	1591	1298	1060
Ruling Span 160 Feet, Heavy Loading Tension = 3508 Lbs.							
300 Ft. Maximum Span							
120	4	4	5	5	6	7	8
140	5	5	6	7	8	9	11
160	6	7	8	9	10	12	14
180	8	9	10	11	13	15	17
200	9	11	12	14	16	18	21
220	11	13	14	16	19	22	26
240	13	15	17	19	22	26	30
260	16	17	20	23	26	31	35
280	18	20	23	26	30	35	41
300	21	23	26	30	35	41	47
Tension at Initial Sag	3102	2767	2436	2117	1821	1561	1345
Ruling Span 240 Feet, Heavy Loading Tension = 3977 Lbs.							
375 Ft. Maximum Span							
160	6	7	7	8	9	11	12
180	8	8	9	10	12	13	15
200	9	10	11	13	15	17	19
220	11	12	14	15	18	20	22
240	13	14	16	18	21	24	27
260	15	17	19	21	24	28	31
280	18	20	22	25	28	32	36
300	20	22	25	28	32	37	41
320	23	25	28	32	36	42	47
340	26	29	32	36	41	47	53
360	29	32	36	41	46	52	59
375	31	35	39	44	50	57	64
Tension at Initial Sag	3182	2862	2549	2250	1976	1734	1529
Ruling Span 300 Feet, Heavy Loading Tension = 4310 Lbs.							

Rated Breaking Strength = 14,100 Lbs.

	Design and Construction Manual	Date: 04-05 Supersedes: 02-00	

SAG TABLE, Inches
ACSR, 477, 26/7 Strand, Bare Conductor
Ampacity = 650 Amps, continuous/summer normal rating

Span Length in Feet	Temperature Degrees F.			
	0	30	60	90
200 Ft. Maximum Span				
80	2	3	4	6
100	3	4	6	9
120	4	6	9	13
140	6	8	12	17
160	7	10	16	22
180	9	13	20	28
200	12	16	25	35
Tension at Initial Sag	3380	2406	1609	1128
Ruling Span 160 Feet, Heavy Loading Tension = 4100 Lbs.				
300 Ft. Maximum Span				
120	3	4	5	7
140	4	5	7	10
160	5	7	9	13
180	7	9	12	16
200	9	11	14	20
220	10	13	17	24
240	12	16	21	28
260	15	18	24	33
280	17	21	28	39
300	19	25	33	44
Tension at Initial Sag	4560	3610	2716	2001
Ruling Span 240 Feet, Heavy Loading Tension = 5437 Lbs.				
375 Ft. Maximum Span				
150	4	5	6	8
175	6	7	9	11
200	8	9	12	15
225	10	12	15	19
250	12	14	18	23
275	14	17	22	28
300	17	21	26	34
325	20	24	31	40
350	23	28	35	46
375	27	32	41	53
Tension at Initial Sag	5216	4294	3400	2621
Ruling Span 300 Feet, Heavy Loading Tension = 6225 Lbs.				

SAG TABLE, Inches
ACSR, 795, 26/7, Bare Conductor
Ampacity = 895 Amps, continuous/summer normal rating

Span Length in Feet	Temperature Degrees F.			
	0	30	60	90
200 Ft. Maximum Span				
80	3	4	6	7
100	5	7	9	11
120	7	10	13	16
140	9	13	18	22
160	12	17	23	29
180	15	22	30	37
200	19	27	37	46
Tension at Initial Sag	3505	2448	1799	1430
Heavy Loading Tension = 4680 Lbs.				
320 Ft. Maximum Span				
120	5	7	9	11
140	7	9	12	15
160	9	12	16	20
180	12	16	20	25
200	15	19	25	31
220	18	23	30	37
240	21	28	36	44
260	25	33	42	52
280	29	38	49	60
300	33	44	56	69
320	38	50	64	78
Tension at Initial Sag	4436	3376	2630	2145
Heavy Loading Tension = 6000 Lbs.				