

WAVEOPTICS

SAG & TENSION

**Flat Drop Cables for Installation sag
of 1.0%, 1.5% and 2.0%**

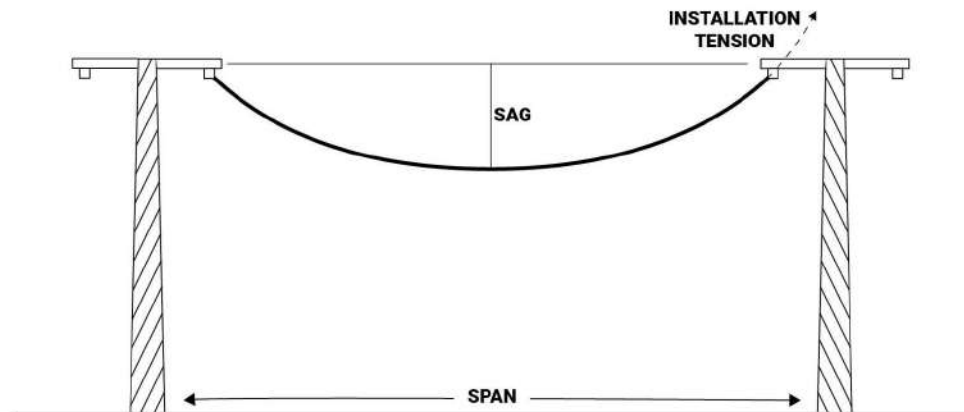


Sag and Tension Guide (1%) Flat Drop Cable

Applicable for the following cable subfamily codes:
 -FLAT DROP 3.0MM CABLE GEL-FILLED
 -FLAT DROP 3.0MM CABLE DRY

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC MEDIUM			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.40	1.2 (30)	117 (26)	1.40	4.2 (107)	239 (54)	2.10	6.3 (160)	383 (86)	3 (76)	37 (8.4)
50 (15)	0.50	3 (76)	198 (44)	1.60	9.6 (244)	420 (94)	2.50	15 (381)	648 (146)	6 (152)	75 (16.8)
75 (23)	0.50	4.5 (114)	296 (67)	1.80	16.2 (411)	564 (127)	2.80	25.2 (640)	871 (196)	9 (229)	112 (25.2)
100 (30)	0.55	6.6 (168)	358 (83)	1.90	22.8 (579)	714 (161)	-	--	-	12 (305)	150 (33.6)
125 (38)	0.55	8.25 (210)	460 (103)	2.00	30 (762)	851 (191)	-	-	-	15 (381)	187 (42.0)
150 (46)	0.60	10.8 (274)	518 (116)	-	-	-	-	-	-	18 (457)	224 (50.4)
175 (53)	0.60	12.6 (320)	604 (136)	-	-	-	-	-	-	21 (533)	262 (58.8)
200 (61)	0.60	14.4 (366)	690 (155)	-	-	-	-	-	-	24 (610)	299 (67.3)
225 (69)	0.65	17.55 (446)	734 (165)	-	-	-	-	-	-	27 (686)	337 (75.7)
250 (76)	0.65	19.5 (495)	802 (180)	-	-	-	-	-	-	30 (762)	374 (84.1)
275 (84)	0.65	21.45 (545)	882 (198)	-	-	-	-	-	-	33 (838.2)	411 (92.5)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



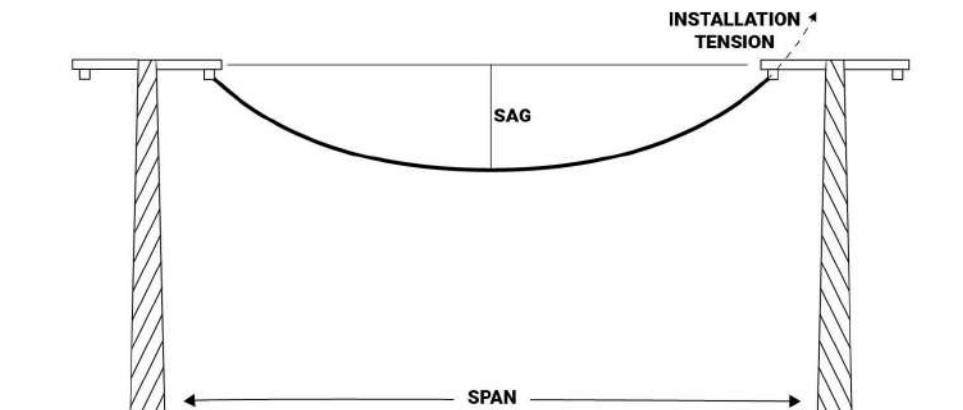


Sag and Tension Guide (1.5%) Flat Drop Cable

Applicable for the following cable subfamily codes:
 -FLAT DROP 3.0MM CABLE GEL-FILLED
 -FLAT DROP 3.0MM CABLE DRY

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC MEDIUM			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.50	1.5 (38)	99 (22)	1.50	4.5 (114)	223 (50)	2.30	6.9 (175)	351 (79)	4.5 (114)	25 (5.6)
50 (15)	0.60	3.6 (91)	173 (39)	1.70	10.2 (259)	397 (89)	2.70	16.2 (411)	601 (135)	9 (229)	50 (11.2)
75 (23)	0.60	5.4 (137)	259 (58)	1.90	17.1 (434)	536 (120)	3.00	27 (686)	816 (183)	13.5 (343)	75 (16.8)
100 (30))	0.65	7.8 (198)	326 (73)	2.00	24 (610)	681 (153)	-	-	-	18 (457)	100 (22.4)
125 (38)	0.65	9.75 (248)	408 (92*)	2.10	31.5 (800)	813 (183)	-	-	-	22.5 (572)	125 (28.0)
150 (46)	0.70	12.6 (320)	464 (104)	-	-	-	-	-	-	27 (686)	150 (33.7)
175 (53)	0.70	14.7 (373)	542 (122)	-	-	-	-	-	-	31.5 (800)	175 (39.3)
200 (61)	0.70	16.8 (427)	619 (139)	-	-	-	-	-	-	36 (914)	200 (44.9)
225 (69)	0.75	20.25 (514)	665 (149)	-	-	-	-	-	-	40.5 (1,029)	225 (50.5)
250 (76)	0.75	22.5 (572)	725 (163)	-	-	-	-	-	-	45 (1,143)	249 (56.1)
275 (84)	0.75	24.75 (629)	798 (179)	-	-	-	-	-	-	49.5 (1,257)	274 (61.7)
300 (91)	0.75	27 (686)	870 (196)	-	-	-	-	-	-	54 (1,372)	299 (67.3)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft^2)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



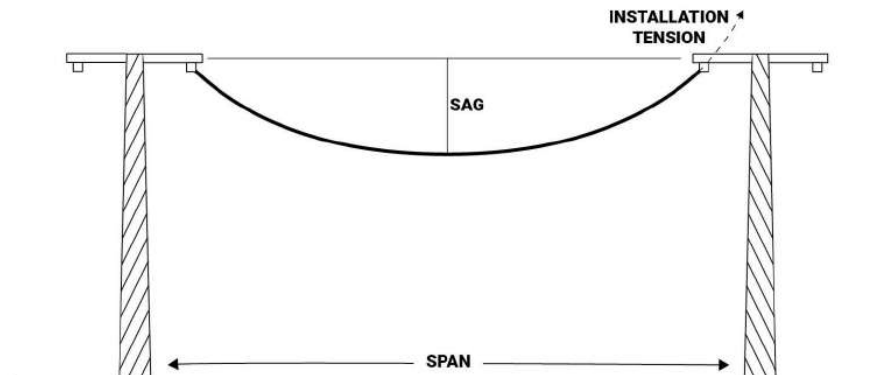


Sag and Tension Guide (2%) Flat Drop Cable

Applicable for the following cable subfamily codes:
 -FLAT DROP 3.0MM CABLE GEL-FILLED
 -FLAT DROP 3.0MM CABLE DRY

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC MEDIUM			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.60	1.8 (46)	86 (19)	1.70	5.1 (130)	198 (45)	2.60	7.8 (198)	312 (70)	6 (152)	19 (4.2)
50 (15)	0.70	4.2 (107)	155 (35)	1.90	11.4 (290)	357 (80)	3.00	18 (457)	544 (122)	12 (305)	37 (8.4)
75 (23)	0.70	6.3 (160)	232 (52)	2.10	18.9 (480)	488 (110)	3.40	30.6 (777)	724 (163)	18 (457)	56 (12.6)
100 (30))	0.75	9 (229)	295 (66)	2.20	26.4 (671)	623 (140)	3.80	45.6 (1,158)	869 (195)	24 (610)	75 (16.8)
125 (38)	0.75	11.25 (286)	369 (83)	2.30	34.5 (876)	747 (168)	-	-	-	30 (762)	94 (21.1))
150 (46)	0.80	14.4 (366)	424 (95)	2.40	43.2 (1,097)	862 (194)	-	-	-	36 (914)	112 (25.3)
175 (53)	0.80	16.8 (427)	495 (111)	-	-	-	-	-	-	42 (1,067)	131 (29.5)
200 (61)	0.80	19.2 (488)	566 (127)	-	-	-	-	-	-	48 (1,219)	150 (33.7)
225 (69)	0.85	22.95 (583)	612 (138)	-	-	-	-	-	-	54 (1,372)	169 (37.9)
250 (76)	0.85	25.5 (648)	667 (150)	-	-	-	-	-	-	60 (1,524)	187 (42.1)
275 (84)	0.85	28.05 (712)	733 (165)	-	-	-	-	-	-	66 (1,676)	206 (46.3)
300 (91)	0.85	30.6 (777)	800 (180)	-	-	-	-	-	-	72 (1,829)	225 (50.5)
325 (99)	0.90	35.1 (892)	835 (188)	-	-	-	-	-	-	78 (1,981)	243 (54.7)
350 (107)	0.95	39.9 (1,013)	869 (195)	-	-	-	-	-	-	84 (2,134)	262 (58.9)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft^2)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



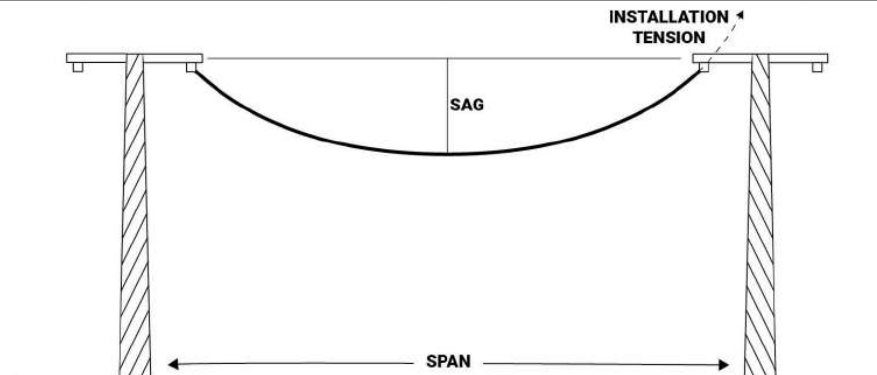


Sag and Tension Guide (1%) Toneable Flat Drop Cable

Applicable for the following cable subfamily codes:
 -TONEABLE FLT DROP 3.0MM CABLE GEL-FILLED
 -TONEABLE FLAT DROP 3.0MM CABLE DRY

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC MEDIUM			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.50	1.5 (38)	117 (26)	1.50	4.5 (114)	248 (56)	2.30	6.9 (175)	379 (85)	3 (76)	43 (9.7)
50 (15)	0.60	3.6 (91)	205 (46)	1.70	10.2 (259)	441 (99)	2.70	16.2 (411)	650 (146)	6 (152)	86 (19.3)
75 (23)	0.60	5.4 (137)	308 (69)	1.90	17.1 (434)	596 (134)	3.00	27 (686)	882 (198)	9 (229)	129 (29.0)
100 (30))	0.65	7.8 (198)	389 (87)	2.00	24 (610)	757 (170)	-	-	-	12 (305)	172 (38.7)
125 (38)	0.65	9.75 (248)	486 (109)	2.20	33 (838)	867 (195)	-	-	-	15 (381)	215 (48.3)
150 (46)	0.70	12.6 (320)	555 (125)	-	-	-	-	-	-	18 (457)	258 (58.0)
175 (53)	0.70	14.7 (373)	647 (146)	-	-	-	-	-	-	21 (533)	301 (67.7)
200 (61)	0.70	16.8 (427)	740 (166)	-	-	-	-	-	-	24 (610)	344 (77.3)
225 (69)	0.75	20.25 (514)	796 (179)	-	-	-	-	-	-	27 (686)	387 (87.0)
250 (76)	0.75	22.5 (572)	867 (195)	-	-	-	-	-	-	30 (762)	430 (96.7)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft^2)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



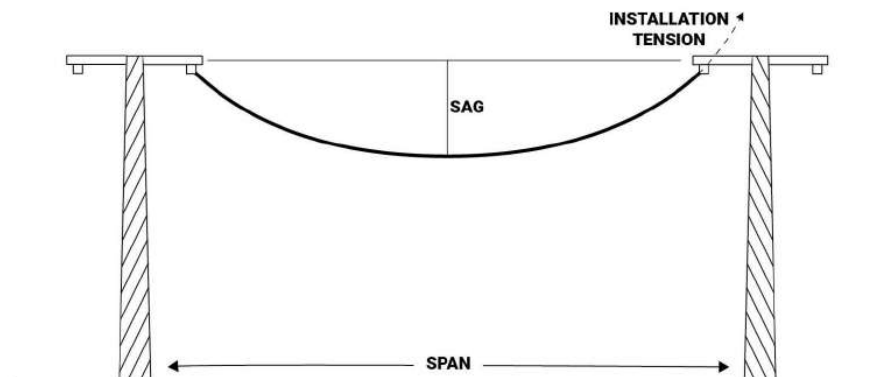


Sag and Tension Guide (1.5%) Toneable Flat Drop Cable

Applicable for the following cable subfamily codes:
 -TONEABLE FLT DROP 3.0MM CABLE GEL-FILLED
 -TONEABLE FLAT DROP 3.0MM CABLE DRY

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC MEDIUM			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.60	1.8 (46)	103 (23)	1.60	4.8 (122)	233 (52)	2.50	7.5 (191)	350 (79)	4.5 (114)	29 (6.4)
50 (15)	0.70	4.2 (107)	185 (42)	1.80	10.8 (274)	418 (94)	2.90	17.4 (442)	607 (137)	9 (229)	57 (12.9)
75 (23)	0.70	6.3 (160)	277 (62)	2.00	18 (457)	568 (128)	3.20	28.8 (732)	830 (187)	13.5 (343)	86 (19.3)
100 (30)	0.75	9 (229)	354 (79)	2.10	25.2 (640)	724 (163)	-	-	-	18 (457)	115 (25.8)
125 (38)	0.75	11.25 (286)	442 (99)	2.20	33 (838)	867 (195)	-	-	-	22.5 (572)	143 (32.2)
150 (46)	0.80	14.4 (366)	509 (114)	-	-	-	-	-	-	27 (686)	172 (38.7)
175 (53)	0.80	16.8 (427)	594 (133)	-	-	-	-	-	-	31.5 (800)	201 (45.1)
200 (61)	0.80	19.2 (488)	678 (153)	-	-	-	-	-	-	36 (914)	230 (51.6)
225 (69)	0.85	22.95 (583)	735 (165)	-	-	-	-	-	-	40.5 (1,029)	258 (58.0)
250 (76)	0.85	25.5 (648)	799 (180)	-	-	-	-	-	-	45 (1,143)	287 (64.5)
275 (84)	0.85	28.05 (712)	879 (198)	-	-	-	-	-	-	49.5 (1,257)	316 (70.9)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



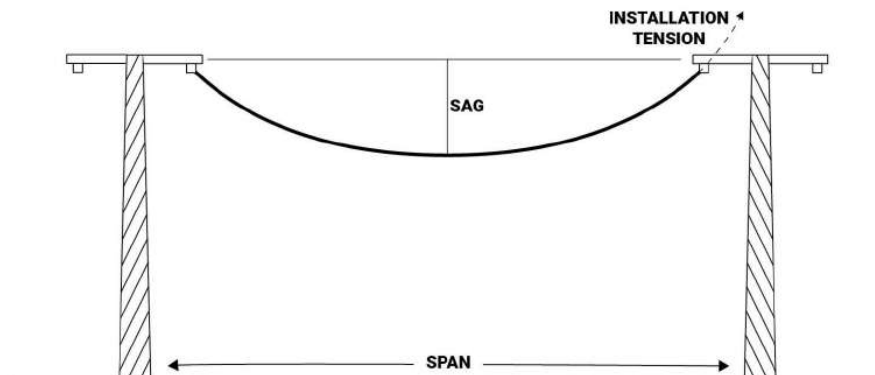


Sag and Tension Guide (2%) Toneable Flat Drop Cable

Applicable for the following cable subfamily codes:
 -TONEABLE FLT DROP 3.0MM CABLE GEL-FILLED
 -TONEABLE FLAT DROP 3.0MM CABLE DRY

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC MEDIUM			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.70	2.1 (53)	92 (21)	1.70	5.1 (130)	233 (52)	2.70	8.1 (206)	350 (79)	6 (152)	22 (4.8)
50 (15)	0.80	4.8 (122)	170 (38)	1.90	11.4 (290)	397 (89)	3.10	18.6 (472)	570 (128)	12 (305)	43 (9.7)
75 (23)	0.80	7.2 (183)	254 (57)	2.10	18.9 (480)	543 (122)	3.40	30.6 (777)	784 (176)	18 (457)	65 (14.5)
100 (30)	0.85	10.2 (259)	327 (73)	2.20	26.4 (671)	694 (156)	-	-	-	24 (610)	86 (19.4)
125 (38)	0.85	12.75 (324)	408 (92)	2.30	34.5 (876)	832 (187)	-	-	-	30 (762)	108 (24.2)
150 (46)	0.90	16.2 (411)	473 (106)	-	-	-	-	-	-	36 (914)	129 (29.1)
175 (53)	0.90	18.9 (480)	552 (124)	-	-	-	-	-	-	42 (1,067)	151 (33.9)
200 (61)	0.90	21.6 (549)	631 (142)	-	-	-	-	-	-	48 (1,219)	172 (38.7)
225 (69)	0.95	25.65 (652)	687 (154)	-	-	-	-	-	-	54 (1,372)	194 (43.6)
250 (76)	0.95	28.5 (724)	746 (168)	-	-	-	-	-	-	60 (1,524)	215 (48.4)
275 (84)	0.95	31.35 (796)	821 (185)	-	-	-	-	-	-	66 (1,676)	237 (53.3)
300 (91)	1.00	36 (914)	868 (195)	-	-	-	-	-	-	72 (1,829)	258 (58.1)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



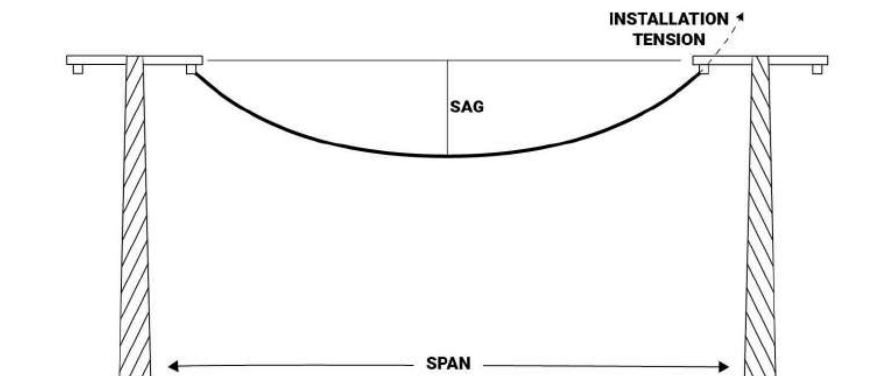


Sag and Tension Guide (1%) Flat Drop Indoor/Outdoor Simplex Cable

Applicable for the following cable subfamily codes:
-FLAT DROP INDOOR/OUTDOOR SIMPLEX CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.40	1.2 (30)	124 (28)	1.40	4.2 (107)	241 (54)	2.10	6.3 (160)	385 (86)	3 (76)	40 (9.0)
50 (15)	0.50	3 (76)	209 (47)	1.60	9.6 (244)	424 (95)	2.50	15 (381)	650 (146)	6 (152)	80 (18.1)
75 (23)	0.50	4.5 (114)	313 (70)	1.80	16.2 (411)	568 (128)	2.80	25.2 (640)	874 (197)	9 (229)	121 (27.1)
100 (30)	0.55	6.6 (168)	388 (87)	1.90	22.8 (579)	720 (162)	-	-	-	12 (305)	161 (36.1)
125 (38)	0.55	8.25 (210)	485 (109)	2.00	30 (762)	858 (193)	-	-	-	15 (381)	201 (45.2)
150 (46)	0.60	10.8 (274)	546 (123)	-	-	-	-	-	-	18 (457)	241 (54.2)
175 (53)	0.60	12.6 (320)	637 (143)	-	-	-	-	-	-	21 (533)	281 (63.3)
200 (61)	0.60	14.4 (366)	728 (164)	-	-	-	-	-	-	24 (610)	322 (72.3)
225 (69)	0.65	17.55 (446)	772 (174)	-	-	-	-	-	-	27 (686)	362 (81.3)
250 (76)	0.65	19.5 (495)	845 (190)	-	-	-	-	-	-	30 (762)	402 (90.4)
275 (84)	0.70	23.1 (587)	881 (198)	-	-	-	-	-	-	33 (838.2)	442 (99.4)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



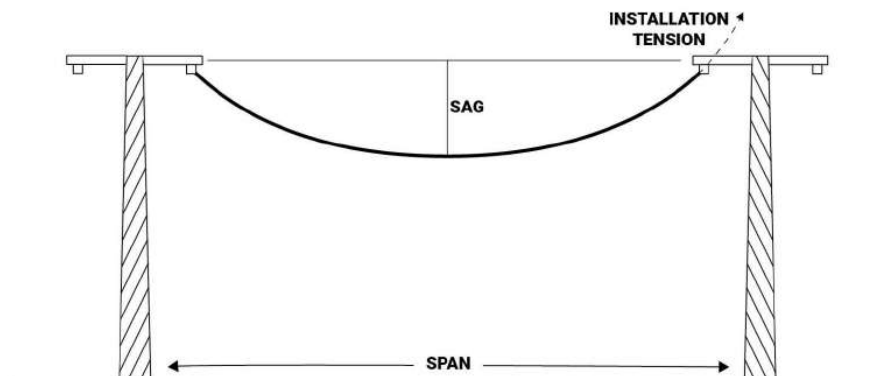


Sag and Tension Guide (1.5%) Flat Drop Indoor/Outdoor Simplex Cable

Applicable for the following cable subfamily codes:
-FLAT DROP INDOOR/OUTDOOR SIMPLEX CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.50	1.5 (38)	104 (23)	1.50	4.5 (114)	225 (51)	2.30	6.9 (175)	352 (79)	4.5 (79)	27 (6.0)
50 (15)	0.60	3.6 (91)	182 (41)	1.70	10.2 (259)	400 (90)	2.70	16.2 (411)	604 (136)	9 (229)	54 (12.1)
75 (23)	0.60	5.4 (137)	273 (61)	1.90	17.1 (434)	540 (121)	3.00	27 (686)	818 (184)	13.5 (343)	80 (18.1)
100 (30)	0.65	7.8 (198)	343 (77)	2.00	24 (610)	686 (154)	-	-	-	18 (457)	107 (24.1)
125 (38)	0.65	9.75 (248)	429 (96)	2.10	31.5 (800)	820 (184)	-	-	-	22.5 (572)	134 (30.1)
150 (46)	0.70	12.6 (320)	489 (110)	-	-	-	-	-	-	27 (686)	161 (36.2)
175 (53)	0.70	14.7 (373)	570 (128)	-	-	-	-	-	-	31.5 (800)	188 (42.2)
200 (61)	0.70	16.8 (427)	651 (146)	-	-	-	-	-	-	36 (914)	215 (48.2)
225 (69)	0.75	20.25 (514)	698 (157)	-	-	-	-	-	-	40.5 (1,029)	241 (54.3)
250 (76)	0.75	22.5 (572)	763 (171)	-	-	-	-	-	-	45 (1,143)	268 (60.3)
275 (84)	0.75	24.75 (629)	839 (189)	-	-	-	-	-	-	49.5 (1,257)	295 (66.3)
300 (91)	0.80	28.8 (732)	875 (197)	-	-	-	-	-	-	54 (1,374)	322 (72.3)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



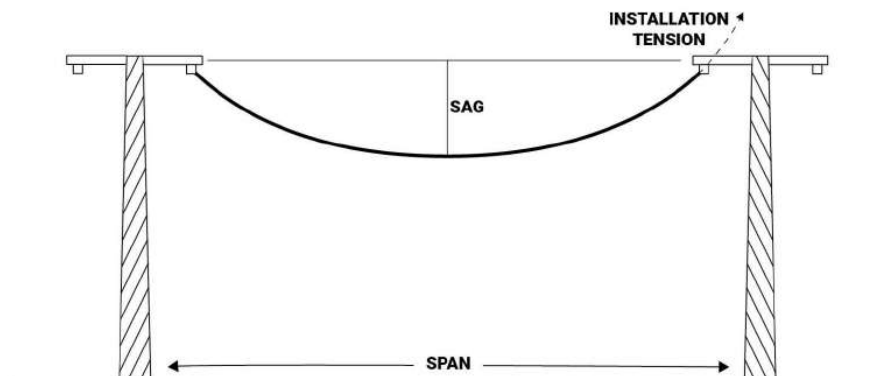


Sag and Tension Guide (2%) Flat Drop Indoor/Outdoor Simplex Cable

Applicable for the following cable subfamily codes:
-FLAT DROP INDOOR/OUTDOOR SIMPLEX CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.60	1.8 (46)	91 (20)	1.70	5.1 (130)	200 (45)	2.60	7.8 (198)	313 (70)	6 (152)	20 (4.5)
50 (15)	0.70	4.2 (107)	163 (37)	1.90	11.4 (290)	360 (81)	3.00	18 (457)	546 (123)	12 (305)	40 (9.1)
75 (23)	0.70	6.3 (160)	244 (55)	2.10	18.9 (480)	492 (111)	3.40	30.6 (777)	727 (163)	18 (457)	60 (13.6)
100 (30)	0.75	9 (229)	310 (70)	2.20	26.4 (671)	628 (141)	3.80	45.6 (1,158)	872 (196)	24 (610)	81 (18.1)
125 (38)	0.75	11.25 (286)	388 (87)	2.30	34.5 (876)	753 (169)	-	-	-	30 (762)	101 (22.6)
150 (46)	0.80	14.4 (366)	445 (100)	2.40	43.2 (1,097)	869 (195)	-	-	-	36 (914)	121 (27.2)
175 (53)	0.80	16.8 (427)	520 (117)	-	-	-	-	-	-	42 (1,067)	141 (31.7)
200 (61)	0.80	19.2 (488)	594 (134)	-	-	-	-	-	-	48 (1,219)	161 (36.2)
225 (69)	0.85	22.95 (583)	642 (144)	-	-	-	-	-	-	54 (1,372)	181 (40.7)
250 (76)	0.85	25.5 (648)	700 (157)	-	-	-	-	-	-	60 (1,624)	201 (42.3)
275 (84)	0.85	28.05 (712)	770 (173)	-	-	-	-	-	-	66 (1,676)	221 (49.8)
300 (91)	0.85	30.6 (777)	840 (189)	-	-	-	-	-	-	72 (1,829)	242 (54.3)
325 (99)	0.85	35.1 (892)	876 (197)	-	-	-	-	-	-	78 (1,981)	262 (58.8)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0





Sag and Tension Guide (1%)

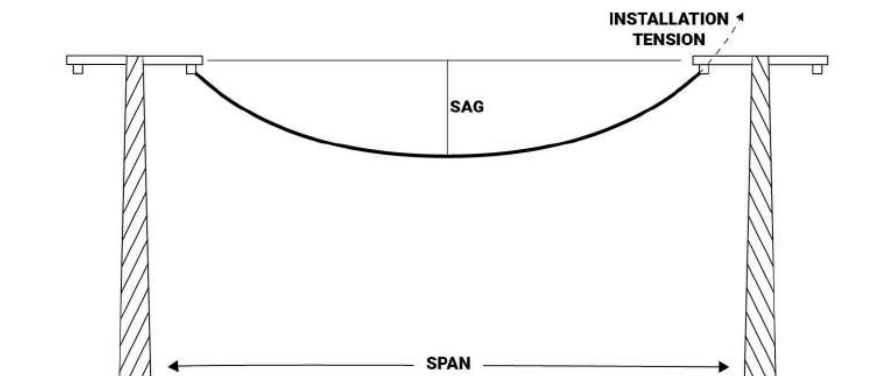
Toneable Flat Drop

Indoor/Outdoor Simplex Cable

Applicable for the following cable subfamily codes:
 -TONEABLE FLAT DROP INDOOR/OUTDOOR
 SIMPLEX CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.50	1.5 (38)	123 (28)	1.50	4.5 (114)	250 (56)	2.30	6.9 (175)	380 (85)	3 (76)	46 (10.3)
50 (15)	0.60	3.6 (91)	215 (48)	1.70	10.2 (259)	444 (100)	2.70	16.2 (411)	652 (147)	6 (152)	92 (20.6)
75 (23)	0.60	5.4 (137)	322 (72)	1.90	17.1 (434)	600 (135)	3.05	27.45 (697)	871 (196)	9 (229)	137 (30.9)
100 (30)	0.65	7.8 (198)	406 (91)	2.00	24 (610)	763 (172)	-	-	-	12 (305)	183 (41.2)
125 (38)	0.65	9.75 (248)	508 (114)	2.20	33 (838)	873 (196)	-	-	-	15 (381)	229 (51.5)
150 (46)	0.70	12.6 (320)	579 (130)	-	-	-	-	-	-	18 (457)	275 (61.8)
175 (53)	0.70	14.7 (373)	675 (152)	-	-	-	-	-	-	21 (533)	321 (72.1)
200 (61)	0.70	16.8 (427)	772 (174)	-	-	-	-	-	-	24 (610)	366 (82.4)
225 (69)	0.75	20.25 (514)	829 (186)	-	-	-	-	-	-	27 (686)	412 (92.7)
250 (76)	0.80	24 (610)	866 (195)	-	-	-	-	-	-	30 (762)	458 (103.0)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



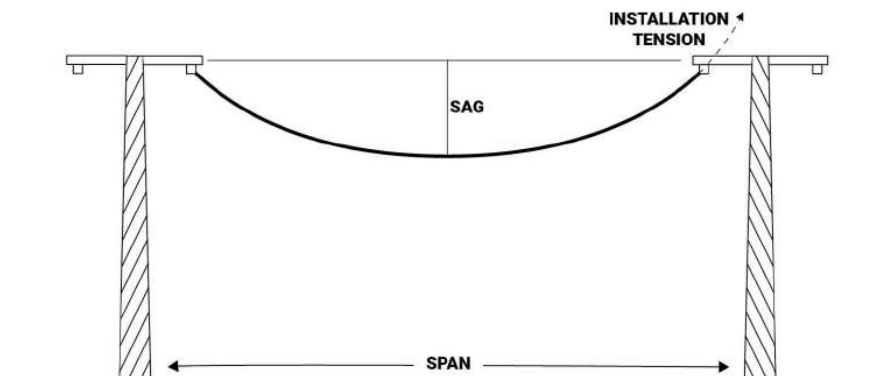


Sag and Tension Guide (1.5%) Toneable Flat Drop Indoor/Outdoor Simplex Cable

Applicable for the following cable subfamily codes:
-TONEABLE FLAT DROP INDOOR/OUTDOOR
SIMPLEX CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.60	1.8 (46)	107 (24)	1.60	4.8 (122)	235 (53)	2.50	7.5 (191)	351 (79)	4.5 (114)	31 (6.9)
50 (15)	0.70	4.2 (107)	193 (43)	1.80	10.8 (274)	421 (95)	2.90	17.4 (442)	609 (137)	9 (229)	61 (13.7)
75 (23)	0.70	6.3 (160)	289 (65)	2.00	18 (457)	572 (129)	3.20	28.8 (732)	832 (187)	13.5 (343)	92 (20.6)
100 (30)	0.75	9 (229)	369 (83)	2.10	25.2 (640)	729 (164)	-	-	-	18 (457)	122 (27.5)
125 (38)	0.75	11.25 (286)	461 (104)	2.20	33 (838)	873 (196)	-	-	-	22.5 (572)	153 (34.4)
150 (46)	0.80	14.4 (366)	530 (119)	-	-	-	-	-	-	27 (686)	183 (41.2)
175 (53)	0.80	16.8 (427)	618 (139)	-	-	-	-	-	-	31.5 (800)	214 (48.1)
200 (61)	0.80	19.2 (488)	707 (159)	-	-	-	-	-	-	36 (914)	244 (55.0)
225 (69)	0.85	22.95 (583)	765 (172)	-	-	-	-	-	-	40.5 (1,029)	275 (61.8)
250 (76)	0.85	25.5 (648)	832 (187)	-	-	-	-	-	-	45 (1,143)	306 (68.7)
275 (84)	0.90	29.7 (754)	883 (198)	-	-	-	-	-	-	49.5 (1,257)	336 (75.6)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



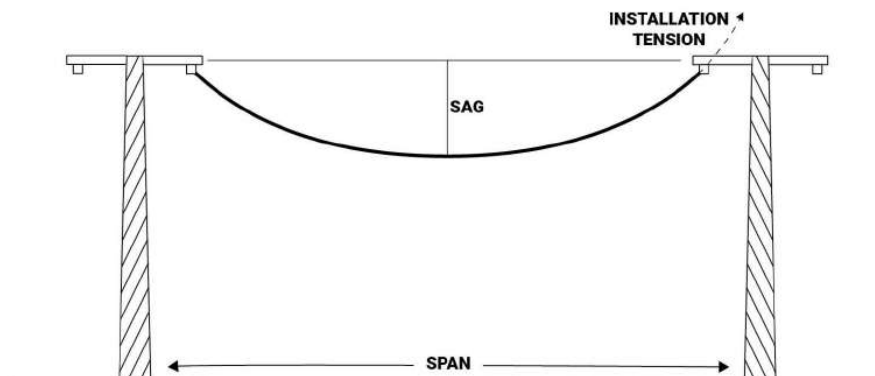


Sag and Tension Guide (2%) Toneable Flat Drop Indoor/Outdoor Simplex Cable

Applicable for the following cable subfamily codes:
-TONEABLE FLAT DROP INDOOR/OUTDOOR
SIMPLEX CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.70	2.1 (53)	96 (22)	1.70	5.1 (130)	222 (50)	2.70	8.1 (206)	326 (73)	6 (152)	23 (5.2)
50 (15)	0.80	4.8 (122)	177 (40)	1.90	11.4 (290)	400 (90)	3.10	18.6 (472)	572 (129)	12 (305)	46 (10.3)
75 (23)	0.80	7.2 (183)	265 (60)	2.10	18.9 (480)	547 (123)	3.40	30.6 (777)	786 (177)	18 (457)	69 (15.5)
100 (30)	0.85	10.2 (259)	340 (76)	2.20	26.4 (671)	699 (157)	-	-	-	24 (610)	92 (20.6)
125 (38)	0.85	12.75 (324)	425 (95)	2.30	34.5 (876)	838 (188)	-	-	-	30 (762)	115 (25.8)
150 (46)	0.90	16.2 (411)	492 (111)	-	-	-	-	-	-	36 (914)	138 (30.9)
175 (53)	0.90	18.9 (480)	574 (129)	-	-	-	-	-	-	42 (1,067)	161 (36.1)
200 (61)	0.90	21.6 (549)	656 (147)	-	-	-	-	-	-	48 (1,219)	184 (41.3)
225 (69)	0.95	25.65 (652)	714 (160)	-	-	-	-	-	-	54 (1,372)	206 (46.4)
250 (76)	0.95	28.5 (724)	776 (174)	-	-	-	-	-	-	60 (1,524)	229 (51.6)
275 (84)	0.95	31.35 (796)	853 (192)	-	-	-	-	-	-	66 (1,676)	252 (56.7)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0





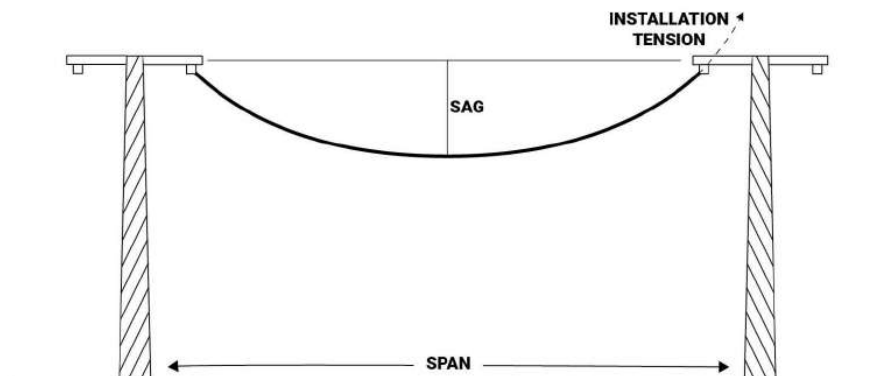
Sag and Tension Guide (1%)

Micro Flat Drop Cable

Applicable for the following cable subfamily codes:
-MICRO FLAT DROP CABLE

NESC ice and wind loading districts											Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy					
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)	
25 (8)	0.30	0.9 (23)	75 (17)	1.40	4.2 (107)	181 (41)	2.10	6.3 (160)	319 (72)	3 (76)	18 (3.9)	
50 (15)	0.40	2.4 (61)	120 (27)	1.60	9.6 (244)	318 (72)	2.50	15 (381)	538 (121)	6 (152)	35 (7.9)	
75 (23)	0.40	3.6 (91)	180 (40)	1.80	16.2 (411)	427 (96)	2.80	25.2 (640)	724 (163)	9 (229)	53 (11.8)	
100 (30)	0.45	5.4 (137)	220 (49)	1.90	22.8 (579)	541 (122)	3.10	37.2 (945)	875 (197)	12 (305)	70 (15.8)	
125 (38)	0.45	6.75 (171)	275 (62)	2.00	30 (762)	644 (145)	-	-	-	15 (381)	88 (19.7)	
150 (46)	0.50	9 (229)	307 (69)	2.10	37.8 (960)	738 (166)	-	-	-	18 (457)	105 (23.6)	
175 (53)	0.50	10.5 (267)	358 (80)	2.20	46.2 (1,173)	824 (185)	-	-	-	21 (533)	123 (27.6)	
200 (61)	0.50	12 (305)	409 (92)	-	-	-	-	-	-	24 (610)	140 (31.5)	
225 (69)	0.55	14.85 (377)	431 (97)	-	-	-	-	-	-	27 (686)	158 (35.5)	
250 (76)	0.55	16.5 (419)	471 (106)	-	-	-	-	-	-	30 (762)	175 (39.4)	
275 (84)	0.55	18.15 (461)	518 (116)	-	-	-	-	-	-	33 (838.2)	193 (43.3)	
300 (91)	0.55	19.8 (503)	565 (127)	-	-	-	-	-	-	36 (914.4)	210 (47.3)	
325 (99)	0.60	23.4 (594)	577 (130)	-	-	-	-	-	-	39 (990.6)	228 (51.2)	
350 (107)	0.60	25.2 (640)	622 (140)	-	-	-	-	-	-	42 (1,067)	245 (55.2)	
375 (114)	0.60	27 (686)	666 (150)	-	-	-	-	-	-	45 (1,143)	263 (59.1)	
400 (122)	0.60	28.8 (732)	710 (160)	-	-	-	-	-	-	48 (1,219)	280 (63.1)	
425 (130)	0.60	30.6 (777)	755 (170)	-	-	-	-	-	-	51 (1,295)	298 (67.0)	
450 (137)	0.60	32.4 (823)	799 (180)	-	-	-	-	-	-	54 (1,372)	316 (70.9)	
475 (145)	0.65	37.05 (941)	801 (180)	-	-	-	-	-	-	57 (1,448)	333 (74.9)	
500 (152)	0.65	39 (991)	818 (184)	-	-	-	-	-	-	60 (1,524)	351 (78.8)	
525 (160)	0.65	40.95 (1,040)	859 (193)	-	-	-	-	-	-	63 (1,600)	368 (82.8)	
550 (168)	0.70	46.2 (1,173)	858 (193)	-	-	-	-	-	-	66 (1,676)	386 (86.7)	

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



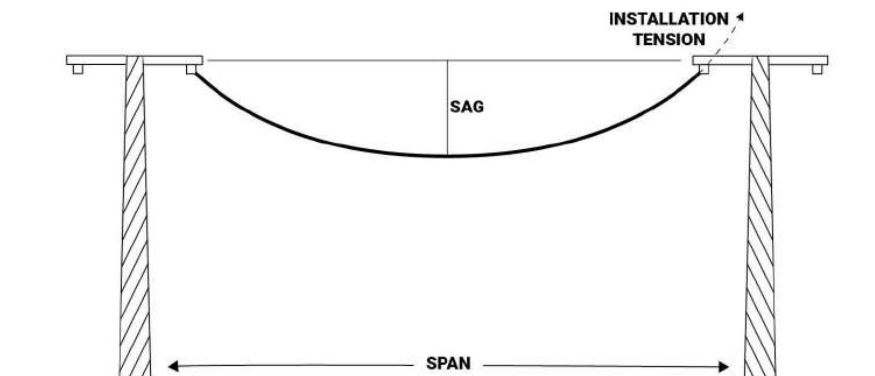


Sag and Tension Guide (1.5%) Micro Flat Drop Cable

Applicable for the following cable subfamily codes:
-MICRO FLAT DROP CABLE

SPAN (ft) (m)	NESC ice and wind loading districts									Initial sag and tension	
	NESC Light			NESC Medium			NESC Heavy			Sag (in) (mm)	Tension (N) (lbf)
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)		
25 (8)	0.40	1.2 (30)	60 (13)	1.50	4.5 (114)	169 (38)	2.30	6.9 (175)	292 (66)	4.5 (114)	12 (2.6)
50 (15)	0.50	3 (76)	102 (23)	1.70	10.2 (259)	300 (68)	2.70	16.2 (411)	500 (112)	9 (229)	23 (5.3)
75 (23)	0.50	4.5 (114)	153 (34)	1.90	17.1 (434)	405 (91)	3.00	27 (686)	677 (152)	13.5 (343)	35 (7.9)
100 (30)	0.55	6.6 (168)	192 (43)	2.00	24 (610)	515 (116)	3.30	39.6 (1,006)	824 (185)	18 (457)	47 (10.5)
125 (38)	0.55	8.25 (210)	240 (54)	2.10	31.5 (800)	615 (138)	-	-	-	22.5 (572)	59 (13.2)
150 (46)	0.60	10.8 (274)	272 (61)	2.20	39.6 (1,006)	706 (159)	-	-	-	27 (686)	70 (15.8)
175 (53)	0.60	12.6 (320)	317 (71)	2.30	48.3 (1,227)	790 (178)	-	-	-	31.5 (800)	82 (18.5)
200 (61)	0.60	14.4 (366)	362 (81)	2.40	57.6 (1,463)	868 (195)	-	-	-	36 (914)	94 (21.1)
225 (69)	0.65	17.55 (446)	387 (87)	-	-	-	-	-	-	40.5 (1,029)	106 (23.7)
250 (76)	0.65	19.5 (495)	422 (95)	-	-	-	-	-	-	45 (1,143)	117 (26.4)
275 (84)	0.65	21.45 (545)	464 (104)	-	-	-	-	-	-	49.5 (1,257)	129 (29.0)
300 (91)	0.65	23.4 (594)	506 (114)	-	-	-	-	-	-	54 (1,372)	141 (31.6)
325 (99)	0.70	27.3 (693)	523 (118)	-	-	-	-	-	-	58.5 (1,486)	152 (34.3)
350 (107)	0.70	29.4 (747)	563 (127)	-	-	-	-	-	-	63 (1,600)	164 (36.9)
375 (114)	0.70	31.5 (800)	603 (136)	-	-	-	-	-	-	67.5 (1,715)	176 (39.5)
400 (122)	0.70	33.6 (853)	644 (145)	-	-	-	-	-	-	72 (1,829)	188 (42.2)
425 (130)	0.70	35.7 (907)	684 (154)	-	-	-	-	-	-	76.5 (1,943)	199 (44.8)
450 (137)	0.70	37.8 (960)	724 (163)	-	-	-	-	-	-	81 (2,057)	211 (47.4)
475 (145)	0.75	42.75 (1,086)	732 (165)	-	-	-	-	-	-	85.5 (2,172)	223 (50.1)
500 (152)	0.75	45 (1,143)	746 (168)	-	-	-	-	-	-	90 (2,286)	235 (52.7)
525 (160)	0.75	47.25 (1,200)	784 (176)	-	-	-	-	-	-	94.5 (2,400)	246 (55.4)
550 (168)	0.80	52.8 (1,341)	789 (177)	-	-	-	-	-	-	99 (2,515)	258 (58.0)
575 (175)	0.80	55.2 (1,402)	825 (185)	-	-	-	-	-	-	103.5 (2,629)	270 (60.6)
600 (183)	0.80	57.6 (1,463)	861 (193)	-	-	-	-	-	-	108 (2,743)	281 (63.3)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



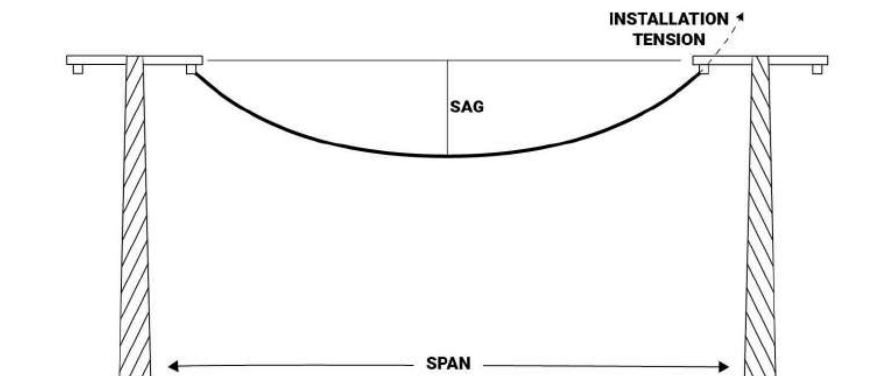


Sag and Tension Guide (2%) Micro Flat Drop Cable

Applicable for the following cable subfamily codes:
-MICRO FLAT DROP CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.50	1.5 (38)	51 (11)	1.60	4.8 (122)	159 (36)	2.50	7.5 (191)	269 (61)	6 (152)	9 (2.0)
50 (15)	0.60	3.6 (91)	91 (20)	1.80	10.8 (274)	284 (64)	2.80	16.8 (427)	482 (108)	12 (305)	18 (4.0)
75 (23)	0.60	5.4 (137)	136 (31)	2.00	18 (457)	386 (87)	3.10	27.9 (709)	656 (148)	18 (457)	26 (5.9)
100 (30)	0.65	7.8 (198)	172 (39)	2.10	25.2 (640)	492 (111)	3.40	40.8 (1,036)	801 (180)	24 (610)	35 (7.9)
125 (38)	0.65	9.75 (248)	215 (48)	2.20	33 (838)	588 (132)	-	-	-	30 (762)	44 (9.9)
150 (46)	0.70	12.6 (320)	247 (55)	2.30	41.4 (1,052)	677 (152)	-	-	-	36 (914)	53 (11.9)
175 (53)	0.70	14.7 (373)	288 (65)	2.40	50.4 (1,280)	759 (171)	-	-	-	42 (1,067)	62 (13.9)
200 (61)	0.70	16.8 (427)	329 (74)	2.50	60 (1,524)	835 (188)	-	-	-	48 (1,219)	70 (15.8)
225 (69)	0.70	18.9 (480)	370 (83)	-	-	-	-	-	-	54 (1,372)	79 (17.8)
250 (76)	0.70	21 (533)	402 (90)	-	-	-	-	-	-	60 (1,524)	88 (19.8)
275 (84)	0.70	23.1 (587)	442 (99)	-	-	-	-	-	-	66 (1,676)	97 (21.8)
300 (91)	0.70	25.2 (640)	483 (109)	-	-	-	-	-	-	72 (1,829)	106 (23.7)
325 (99)	0.75	29.25 (743)	501 (113)	-	-	-	-	-	-	78 (1,981)	114 (25.7)
350 (107)	0.75	31.5 (800)	540 (121)	-	-	-	-	-	-	84 (2,134)	123 (27.7)
375 (114)	0.75	33.75 (857)	578 (130)	-	-	-	-	-	-	90 (2,286)	132 (29.7)
400 (122)	0.75	36 (914)	617 (139)	-	-	-	-	-	-	96 (2,438*)	141 (31.7)
425 (130)	0.75	38.25 (972)	655 (147)	-	-	-	-	-	-	102 (2,591)	150 (33.6)
450 (137)	0.75	40.5 (1,029)	694 (156)	-	-	-	-	-	-	108 (2,743)	158 (35.6)
475 (145)	0.80	45.6 (1,158)	705 (158)	-	-	-	-	-	-	114 (2,896)	167 (37.6)
500 (152)	0.80	48 (1,219)	717 (161)	-	-	-	-	-	-	120 (3,048)	176 (39.6)
525 (160)	0.80	50.4 (1,280)	753 (169)	-	-	-	-	-	-	126 (3,200)	185 (41.6)
550 (168)	0.85	56.1 (1,425)	760 (171)	-	-	-	-	-	-	132 (3,353)	194 (43.5)
575 (175)	0.85	58.65 (1,490)	795 (179)	-	-	-	-	-	-	138 (3,505)	202 (45.5)
600 (183)	0.85	61.2 (1,554)	830 (186)	-	-	-	-	-	-	144 (3,658)	211 (47.5)
625 (191)	0.85	63.75 (1,619)	864 (194)	-	-	-	-	-	-	150 (3,810)	220 (49.5)
650 (198)	0.90	70.2 (1,783)	869 (195)	-	-	-	-	-	-	156 (3,962)	229 (51.4)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



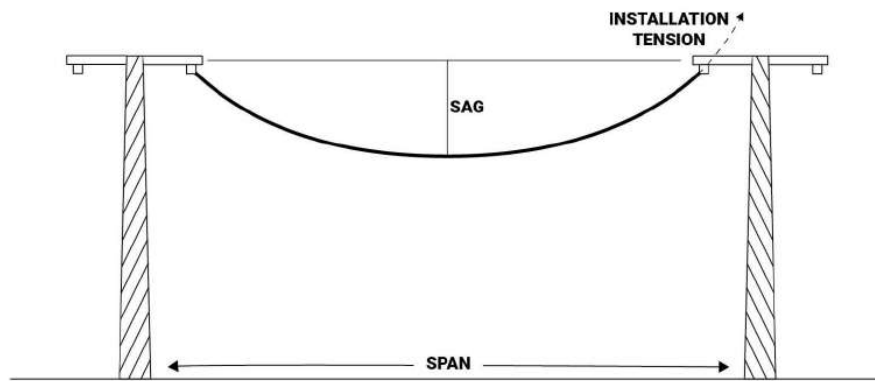


Sag and Tension Guide (1%) Toneable Micro Flat Drop Cable

Applicable for the following cable subfamily codes:
-TONEABLE MICRO FLAT DROP CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.40	1.2 (30)	68 (15)	1.50	4.5 (114)	171 (39)	2.20	6.6 (168)	306 (69)	3 (76)	21 (4.7)
50 (15)	0.50	3 (76)	115 (26)	1.70	10.2 (259)	304 (68)	2.60	15.6 (395)	521 (117)	6 (152)	42 (9.4)
75 (23)	0.50	4.5 (114)	173 (39)	1.90	17.1 (434)	411 (92)	2.90	26.1 (663)	703 (158)	9 (229)	63 (14.1)
100 (30)	0.55	6.6 (168)	216 (48)	2.00	24 (610)	521 (117)	3.20	38.4 (975)	853 (192)	12 (305)	83 (18.7)
125 (38)	0.55	8.25 (210)	269 (61)	2.10	31.5 (800)	623 (140)	-	-	-	15 (381)	104 (23.4)
150 (46)	0.60	10.8 (274)	304 (68)	2.20	39.6 (1,006)	715 (161)	-	-	-	18 (457)	125 (28.1)
175 (53)	0.60	12.6 (320)	355 (80)	2.30	48.3 (1,227)	800 (180)	-	-	-	21 (533)	146 (32.8)
200 (61)	0.60	14.4 (366)	406 (91)	2.40	57.6 (1,463)	879 (198)	-	-	-	24 (610)	167 (37.5)
225 (69)	0.65	17.55 (446)	433 (97)	-	-	-	-	-	-	27 (686)	188 (42.2)
250 (76)	0.65	19.5 (495)	472 (106)	-	-	-	-	-	-	30 (762)	208 (46.9)
275 (84)	0.65	21.45 (545)	519 (117)	-	-	-	-	-	-	33 (838.2)	229 (51.6)
300 (91)	0.65	23.4 (594)	566 (127)	-	-	-	-	-	-	36 (914.4)	250 (56.2)
325 (99)	0.70	27.3 (693)	584 (131)	-	-	-	-	-	-	39 (990.6)	271 (60.9)
350 (107)	0.70	29.4 (747)	629 (141)	-	-	-	-	-	-	42 (1,067)	292 (65.6)
375 (114)	0.70	31.5 (800)	673 (151)	-	-	-	-	-	-	45 (1,143)	313 (70.3)
400 (122)	0.70	33.6 (853)	718 (161)	-	-	-	-	-	-	48 (1,219)	334 (75.0)
425 (130)	0.70	35.7 (907)	763 (172)	-	-	-	-	-	-	51 (1,295)	354 (79.7)
450 (137)	0.70	37.8 (960)	808 (182)	-	-	-	-	-	-	54 (1,372)	375 (84.4)
475 (145)	0.75	42.75 (1,086)	815 (183)	-	-	-	-	-	-	57 (1,448)	396 (89.1)
500 (152)	0.75	45 (1,143)	834 (187)	-	-	-	-	-	-	60 (1,524)	417 (93.7)
525 (160)	0.75	47.25 (1,200)	875 (197)	-	-	-	-	-	-	63 (1,600)	438 (98.4)
550 (168)	0.80	52.8 (1,341)	879 (198)	-	-	-	-	-	-	66 (1,676)	459 (103.1)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0



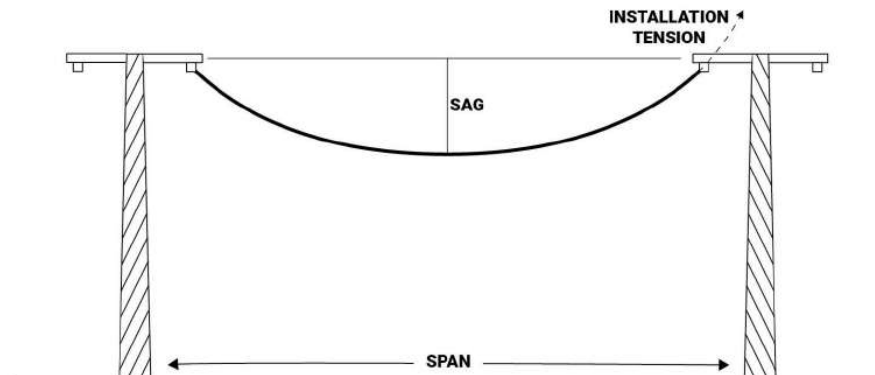


Sag and Tension Guide (1.5%) Toneable Micro Flat Drop Cable

Applicable for the following cable subfamily codes:
-TONEABLE MICRO FLAT DROP CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.50	1.5 (38)	58 (13)	1.60	4.8 (122)	161 (36)	2.40	7.2 (183)	281 (63)	4.5 (114)	14 (3.1)
50 (15)	0.60	3.6 (91)	101 (23)	1.80	10.8 (274)	288 (65)	2.80	16.8 (427)	485 (109)	9 (229)	28 (6.3)
75 (23)	0.60	5.4 (137)	152 (34)	2.00	18 (457)	391 (88)	3.10	27.9 (709)	659 (148)	13.5 (343)	42 (9.4)
100 (30)	0.60	7.2 (183)	203 (46)	2.10	25.2 (640)	498 (112)	3.40	40.8 (1,036)	805 (181)	18 (457)	56 (12.5)
125 (38)	0.65	9.75 (248)	240 (54)	2.20	33 (838)	596 (134)	-	-	-	22.5 (572)	70 (15.6)
150 (46)	0.70	12.6 (320)	275 (62)	2.30	41.4 (1,052)	686 (154)	-	-	-	27 (686)	83 (18.8)
175 (53)	0.70	14.7 (373)	320 (72)	2.40	50.4 (1,280)	769 (173)	-	-	-	31.5 (800)	97 (21.9)
200 (61)	0.70	16.8 (427)	366 (82)	2.50	60 (1,524)	846 (190)	-	-	-	36 (914)	111 (25.0)
225 (69)	0.70	18.9 (480)	412 (93)	-	-	-	-	-	-	40.5 (1,029)	125 (28.1)
250 (76)	0.70	21 (533)	449 (101)	-	-	-	-	-	-	45 (1,143)	139 (31.3)
275 (84)	0.70	23.1 (587)	494 (111)	-	-	-	-	-	-	49.5 (1,257)	153 (34.4)
300 (91)	0.70	25.2 (640)	539 (121)	-	-	-	-	-	-	54 (1,372)	167 (37.5)
325 (99)	0.75	29.25 (743)	558 (125)	-	-	-	-	-	-	58.5 (1,486)	181 (40.6)
350 (107)	0.75	31.5 (800)	601 (135)	-	-	-	-	-	-	63 (1,600)	195 (43.8)
375 (114)	0.75	33.75 (857)	644 (145)	-	-	-	-	-	-	67.5 (1,715)	209 (46.9)
400 (122)	0.75	36 (914)	687 (154)	-	-	-	-	-	-	72 (1,829)	223 (50.0)
425 (130)	0.75	38.25 (972)	730 (164)	-	-	-	-	-	-	76.5 (1,943)	236 (53.2)
450 (137)	0.75	40.5 (1,029)	772 (174)	-	-	-	-	-	-	81 (2,057)	250 (56.3)
475 (145)	0.80	45.6 (1,158)	741 (167)	-	-	-	-	-	-	85.5 (2,172)	264 (59.4)
500 (152)	0.80	48 (1,219)	799 (180)	-	-	-	-	-	-	90 (2,286)	278 (62.5)
525 (160)	0.80	50.4 (1,280)	839 (189)	-	-	-	-	-	-	94.5 (2,400)	292 (65.7)
550 (168)	0.85	56.1 (1,425)	845 (190)	-	-	-	-	-	-	99 (2,515)	306 (68.8)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0





Sag and Tension Guide (2%) Toneable Micro Flat Drop Cable

Applicable for the following cable subfamily codes:
-TONEABLE MICRO FLAT DROP CABLE

NESC ice and wind loading districts										Initial sag and tension	
SPAN (ft) (m)	NESC Light			NESC Medium			NESC Heavy				
	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (%)	Sag (in) (mm)	Tension (N) (lbf)	Sag (in) (mm)	Tension (N) (lbf)
25 (8)	0.55	1.65 (42)	54 (12)	1.70	5.1 (130)	152 (34)	2.50	7.5 (191)	270 (61)	6 (152)	10 (2.3)
50 (15)	0.65	3.9 (99)	96 (22)	1.90	11.4 (290)	274 (62)	2.90	17.4 (442)	469 (105)	12 (305)	21 (4.7)
75 (23)	0.65	5.85 (149)	144 (32)	2.10	18.9 (480)	374 (84)	3.20	28.8 (732)	640 (144)	18 (457)	31 (7.0)
100 (30)	0.70	8.4 (213)	183 (41)	2.20	26.4 (671)	477 (107)	3.50	42 (1,067)	783 (176)	24 (610)	42 (9.4)
125 (38)	0.70	10.5 (267)	229 (51)	2.30	34.5 (876)	572 (128)	-	-	-	30 (762)	52 (11.7)
150 (46)	0.75	13.5 (343)	263 (59)	2.40	43.2 (1,097)	659 (148)	-	-	-	36 (914)	63 (14.1)
175 (53)	0.75	15.75 (400)	307 (69)	2.50	52.5 (1,334)	740 (166)	-	-	-	42 (1,067)	73 (16.4)
200 (61)	0.75	18 (457)	350 (79)	2.60	62.4 (1,585)	816 (183)	-	-	-	48 (1,219)	84 (18.8)
225 (69)	0.75	20.25 (514)	394 (89)	-	-	-	-	-	-	54 (1,372)	94 (21.1)
250 (76)	0.75	22.5 (572)	429 (96)	-	-	-	-	-	-	60 (1,524)	104 (23.5)
275 (84)	0.75	24.75 (629)	472 (106)	-	-	-	-	-	-	66 (1,676)	115 (25.8)
300 (91)	0.75	27 (686)	515 (116)	-	-	-	-	-	-	72 (1,829)	125 (28.2)
325 (99)	0.80	31.2 (792)	535 (120)	-	-	-	-	-	-	78 (1,981)	136 (30.5)
350 (107)	0.80	33.6 (853)	576 (130)	-	-	-	-	-	-	84 (2,134)	146 (32.9)
375 (114)	0.80	36 (914)	618 (139)	-	-	-	-	-	-	90 (2,286)	157 (35.2)
400 (122)	0.80	38.4 (975)	659 (148)	-	-	-	-	-	-	96 (2,438)	167 (37.6)
425 (130)	0.80	40.8 (1,036)	700 (157)	-	-	-	-	-	-	102 (2,591)	177 (39.9)
450 (137)	0.80	43.2 (1,097)	741 (167)	-	-	-	-	-	-	108 (2,743)	188 (42.2)
475 (145)	0.85	48.45 (1,231)	753 (169)	-	-	-	-	-	-	114 (2,896)	198 (44.6)
500 (152)	0.85	51 (1,295)	768 (173)	-	-	-	-	-	-	120 (3,048)	209 (46.9)
525 (160)	0.85	53.55 (1,360)	807 (181)	-	-	-	-	-	-	126 (3,200)	219 (49.3)
550 (168)	0.90	59.4 (1,509)	815 (183)	-	-	-	-	-	-	132 (3,353)	230 (51.6)
575 (175)	0.90	62.1 (1,577)	852 (192)	-	-	-	-	-	-	138 (3,505)	240 (54.0)

Loading district specifics			
	NESC Light	NESC Medium	NESC Heavy
Horizontal wind pressure (lbf/ft ²)	9	4	4
Radial ice thickness (in)	0	0.25	0.5
Temperature (°C) (°F)	-1.1 (30)	-9.4 (15)	0

