

Universal Drop FTTP and Universal Flex FTTP Sag and Tension Guide

Series 6U and Series 6S

Initial Sag and Tension¹

Span ft	0°F		20°F		40°F		60°F		80°F		100°F	
	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in	Tension lbs	Sag in
25	14	2.1	12	2.4	11	2.7	10	3.0	9	3.3	8	3.6
50	26	4.5	23	5.0	21	5.5	19	6.0	18	6.5	17	7.0
75	36	7.2	34	7.8	31	8.4	29	9.0	27	9.6	26	10.2
100	47	9.9	44	10.6	41	11.3	39	12.0	37	12.7	35	13.4
125	57	12.7	54	13.4	51	14.2	48	15.0	46	15.8	44	16.6
150	68	15.5	64	16.3	61	17.2	58	18.0	56	18.8	53	19.7
175	78	18.3	74	19.2	71	20.1	68	21.0	65	21.9	63	22.8
200	88	21.2	84	22.1	81	23.1	78	24.0	75	24.9	72	25.9
225	98	24.1	94	25.1	90	26.0	87	27.0	84	28.0	81	28.9
250	108	27.0	104	28.0	100	29.0	97	30.0	94	31.0	91	32.0
275	118	29.9	114	30.9	110	32.0	107	33.0	103	34.0	100	35.1
300	128	32.8	124	33.9	120	34.9	116	36.0	113	37.1	110	38.1
325	137	35.8	133	36.8	130	37.9	126	39.0	123	40.1	119	41.2
350	147	38.7	143	39.8	139	40.9	136	42.0	132	43.1	129	44.2
375	157	41.6	153	42.8	149	43.9	145	45.0	142	46.1	138	47.2
400	167	44.6	163	45.7	159	46.9	155	48.0	151	49.1	148	50.3
425	170	49.3	168	49.9	167	50.4	165	51.0	163	51.6	161	52.1
450	181	52.2	178	52.8	150	62.6	174	54.0	149	63.4	147	64.0
475	191	55.0	188	55.7	186	56.3	184	57.0	182	57.7	180	58.3
500	201	57.9	198	58.6	196	59.3	194	60.0	192	60.7	189	61.4
525	211	60.8	208	61.6	206	62.3	203	63.0	201	63.7	199	64.4
550	221	63.8	218	64.5	216	65.3	213	66.0	211	66.7	208	67.5

NESC Ice and Wind Loading Districts¹

Span ft	Heavy Plus ²				Heavy				Medium				Light			
	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs	Vert. Sag in	Horiz. Sag in	Total Sag in	Tension lbs
25	8.3	3.8	9.1	188	5.1	4.2	6.6	99	3.2	4.2	5.2	61	0.9	3.8	3.9	31
50	20.7	9.6	22.9	302	12.6	10.3	16.3	160	7.7	10.2	12.8	101	2.2	8.9	9.2	53
75	-	-	-	-	21.5	17.5	27.7	212	13.1	17.2	21.6	134	3.6	14.8	15.2	73
100	-	-	-	-	31.3	25.6	40.4	258	18.9	24.9	31.3	165	5.1	21.1	21.7	91
125	-	-	-	-	42.0	34.2	54.2	301	25.3	33.2	41.7	193	6.7	27.8	28.6	108
150	-	-	-	-	53.3	43.5	68.8	342	31.9	42.0	52.8	219	8.5	34.8	35.8	124
175	-	-	-	-	-	-	-	-	39.0	51.3	64.4	245	10.2	42.0	43.3	139
200	-	-	-	-	-	-	-	-	46.3	60.9	76.4	269	12.0	49.6	51.0	154
225	-	-	-	-	-	-	-	-	53.8	70.8	88.9	293	13.9	57.3	59.0	169
250	-	-	-	-	-	-	-	-	61.6	81.1	101.8	316	15.9	65.2	67.1	183
275	-	-	-	-	-	-	-	-	69.6	91.6	115.1	338	17.8	73.3	75.4	197
300	-	-	-	-	-	-	-	-	-	-	-	-	19.8	81.5	83.9	211
325	-	-	-	-	-	-	-	-	-	-	-	-	21.9	89.9	92.5	225
350	-	-	-	-	-	-	-	-	-	-	-	-	23.9	98.4	101.2	238
375	-	-	-	-	-	-	-	-	-	-	-	-	26.0	107.0	110.1	251
400	-	-	-	-	-	-	-	-	-	-	-	-	28.1	115.7	119.1	264
425	-	-	-	-	-	-	-	-	-	-	-	-	30.3	124.6	128.2	277
450	-	-	-	-	-	-	-	-	-	-	-	-	32.5	133.5	137.4	290
475	-	-	-	-	-	-	-	-	-	-	-	-	34.7	142.6	146.7	303
500	-	-	-	-	-	-	-	-	-	-	-	-	36.9	151.7	156.1	315
525	-	-	-	-	-	-	-	-	-	-	-	-	39.1	160.9	165.6	328
550	-	-	-	-	-	-	-	-	-	-	-	-	41.4	170.2	175.1	340

Loading District Specifics

	Heavy Plus ²	Heavy	Medium	Light
Horizontal Wind Pressure (lb/ft ²)	4	4	4	9
Radial Ice Thickness (in)	1	½	¼	0
Temperature (F)	0	0	15	30

¹Reflects 1% Sag at 60°F installation.

²Not an NESC District