

FTTP Tight Buffered Indoor/Outdoor Drop Sag and Tension Guide

Series W7U and Series W7T

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	17	1.6	13	2.1	11	2.5	9	3.0	8	3.5	7	3.9
50	28	3.9	24	4.6	20	5.3	18	6.0	16	6.7	15	7.4
75	38	6.4	34	7.3	30	8.1	27	9.0	25	9.9	23	10.7
100	48	9.1	43	10.1	39	11.0	36	12.0	34	13.0	31	13.9
125	57	11.8	53	12.9	49	13.9	45	15.0	42	16.1	40	17.1
150	67	14.6	62	15.7	58	16.9	54	18.0	51	19.1	48	20.3
175	76	17.4	72	18.6	67	19.8	63	21.0	60	22.2	57	23.4
200	86	20.3	81	21.5	76	22.8	73	24.0	69	25.2	66	26.5
225	95	23.1	90	24.4	86	25.7	82	27.0	78	28.3	74	29.6
250	104	26.0	99	27.4	95	28.7	91	30.0	87	31.3	83	32.6
275	114	28.9	109	30.3	104	31.6	100	33.0	96	34.4	92	35.7
300	123	31.8	118	33.2	113	34.6	109	36.0	105	37.4	101	38.8
325	132	34.8	127	36.2	122	37.6	118	39.0	114	40.4	110	41.8
350	141	37.7	136	39.1	131	40.6	127	42.0	123	43.4	119	44.9

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	9.4	4.4	10.4	166	5.7	4.6	7.3	89	3.5	4.6	5.7	56	0.6	5.2	5.2	43
50	23.7	11.0	26.1	264	14.2	11.6	18.3	142	8.6	11.4	14.2	90	1.5	12.6	12.7	71
75	-	-	-	-	24.3	19.9	31.4	187	14.5	19.3	24.2	119	2.6	21.3	21.4	95
100	-	-	-	-	35.5	29.0	45.8	227	21.1	28.1	35.1	146	3.7	30.7	31.0	117
125	-	-	-	-	47.6	39.0	61.5	265	28.2	37.5	47.0	171	4.9	40.9	41.2	138
150	-	-	-	-	60.5	49.5	78.2	300	35.8	47.5	59.5	194	6.2	51.6	52.0	157
175	-	-	-	-	-	-	-	-	43.7	58.0	72.6	216	7.6	62.8	63.3	175
200	-	-	-	-	-	-	-	-	51.9	68.9	86.3	238	9.0	74.5	75.0	193
225	-	-	-	-	-	-	-	-	60.4	80.3	100.4	259	10.5	86.5	87.2	211
250	-	-	-	-	-	-	-	-	69.2	91.9	115.0	279	12.0	98.9	99.6	227
275	-	-	-	-	-	-	-	-	78.2	103.9	130.0	298	13.5	111.6	112.4	244
300	-	-	-	-	-	-	-	-	-	-	-	-	15.1	124.6	125.5	260
325	-	-	-	-	-	-	-	-	-	-	-	-	16.7	137.9	139.9	276
350	-	-	-	-	-	-	-	-	-	-	-	-	18.3	151.4	152.5	291

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