



## SAG AND TENSION TABLE FOR HEAVY ICE LOADING AREAS

### TWO PAIR AERIAL SERVICE WIRE - NONMETALLIC (GSDW)

SPAN LENGTH (Feet)	STRINGING TENSION (Lbs.)	STRINGING SAG (Feet) - (Inches)		SAG UNDER HEAVY LOADING		EXPECTED TENSION UNDER HEAVY LOAD (Lbs.)	UNLOADED SAG AFTER STORM	
				(Feet) -	(Inches)		(Feet) -	(Inches)
50	40	0	4	1	11	174	1	1
75	40	0	9	3	4	221	1	10
100	40	1	5	5	0	262	2	10
125	40	2	2	6	11	299	3	11
150	40	3	1	8	11	332	5	2
175	50	3	4	10	10	373	6	1

### THREE PAIR AERIAL SERVICE WIRE - NONMETALLIC (GSDW)

SPAN LENGTH (Feet)	STRINGING TENSION(Lbs.)	STRINGING SAG (Feet) - (Inches)		SAG UNDER HEAVY LOADING		EXPECTED TENSION UNDER HEAVY LOAD (Lbs.)	UNLOADED SAG AFTER STORM	
				(Feet) -	(Inches)		(Feet) -	(Inches)
50	60	0	3	1	10	184	1	2
75	60	0	7	3	3	232	1	11
100	60	1	1	4	10	274	2	11
125	65	1	6	6	7	315	3	11
150	80	1	9	8	4	359	4	11
175	100	1	11	10	2	403	6	0

### SIX PAIR AERIAL SERVICE WIRE - NONMETALLIC (GSDW)

SPAN LENGTH (Feet)	STRINGING TENSION(Lbs.)	STRINGING SAG (Feet) - (Inches)		SAG UNDER HEAVY LOADING		EXPECTED TENSION UNDER HEAVY LOAD (Lbs.)	UNLOADED SAG AFTER STORM	
				(Feet) -	(Inches)		(Feet) -	(Inches)
50	60	0	5	1	8	216	1	3
75	60	1	0	3	0	271	2	2
100	60	1	10	4	7	318	3	3
125	65	2	7	6	3	364	4	6
150	75	3	3	8	0	412	5	9
175	80	4	1	9	11	453	7	1
200	90	4	9	11	10	494	8	5

NOTES: Heavy ice loading is defined under NESC Rules 250 and 251 as 0.5 inch radius thickness of ice and 4 PSF horizontal wind pressure at 0° F.

Stringing tensions are at 60° F.