

BELL SYSTEM PRACTICES
Outside Plant Construction
and Maintenance

SECTION G34.120.4
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AT&T Co Standard

C RURAL WIRE
STRINGING SAGS

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1. GENERAL

- 1.01 This section contains sag tables covering the minimum sags for placing C Rural Wire.
- 1.02 The sags provided herein may be exceeded if field conditions permit.

2. INDEX OF SAG TABLES

2.01 The following index indicates the sag table to be used for different average span lengths in various storm loading areas for C Rural Wire.

Storm Loading Area	Span Length (Feet)	Table No.
All	100—250	1
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Medium	350—450	4
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TABLE 1
ALL LOADING AREAS
Span Lengths—100 ft. to 250 ft.

Span Length (Feet)	Temperature—Degrees Fahrenheit				
	120	90	60	30	0
	Sag (Inches)				
100	4-1/2	3-1/2	3	2-1/2	2
110	5-1/2	4-1/2	3-1/2	3	2-1/2
120	6-1/2	5	4-1/2	3-1/2	3
130	7-1/2	6	5	4	4
140	8-1/2	7	6	5	4-1/2
150	10	8	6-1/2	5-1/2	5
160	11	9-1/2	7-1/2	6-1/2	6
170	12-1/2	10-1/2	8-1/2	7	6-1/2
180	14	12	9-1/2	8	7-1/2
190	16	13	11	9	8
200	17-1/2	14-1/2	12	10	9
210	19	16	13	11	10
220	21	17-1/2	14-1/2	12	11
230	23	19	16	13	12
240	25	21	17	14-1/2	13
250	27-1/2	22-1/2	19-1/2	15-1/2	14

TABLE 2
HEAVY LOADING AREA
Span Lengths—250 ft. to 350 ft.

Span Length (Feet)	Temperature—Degrees Fahrenheit				
	120	90	60	30	0
	Sag (Inches)				
250	15-1/2	13-1/2	12	11	9-1/2
260	17	14-1/2	13	11-1/2	10-1/2
270	18	16	14	12-1/2	11
280	19-1/2	17	15	13-1/2	12
290	21	18	16	14-1/2	13
300	22-1/2	19-1/2	17	15-1/2	14
310	24	21	18	16-1/2	15
320	25-1/2	22	19	17-1/2	16
330	27-1/2	23-1/2	20-1/2	19	17
340	29	25	22	20	18
350	30-1/2	26-1/2	23	21	19

TABLE 3
MEDIUM AND LIGHT LOADING AREAS
Span Lengths—250 ft. to 350 ft.

Span Length (Feet)	Temperature—Degrees Fahrenheit				
	120	90	60	30	0
	Sag (Inches)				
250	22	19	16	14	12-1/2
260	23-1/2	20-1/2	17-1/2	15-1/2	13-1/2
270	25-1/2	22	19	16-1/2	14-1/2
280	27-1/2	23-1/2	20-1/2	18	15-1/2
290	29-1/2	25	22	19	17
300	31-1/2	27	23-1/2	20-1/2	18
310	33-1/2	29	25	22	19
320	36	30-1/2	26-1/2	23-1/2	20-1/2
330	38	32-1/2	28-1/2	25	22
340	40-1/2	35	30	26-1/2	23
350	43	37	32	28	24-1/2

TABLE 4
MEDIUM LOADING AREA
Span Lengths—350 ft. to 450 ft.

Span Length (Feet)	Temperature—Degrees Fahrenheit				
	120	90	60	30	0
	Sag (Inches)				
350	28	25-1/2	23	21	19
360	29-1/2	26-1/2	24-1/2	22-1/2	20-1/2
370	31	28	25-1/2	23-1/2	21-1/2
380	33	29-1/2	27	25	22-1/2
390	34-1/2	31-1/2	28-1/2	26	24
400	36-1/2	33	30	27-1/2	25
410	38-1/2	34-1/2	31-1/2	29	26-1/2
420	40	36-1/2	33	30-1/2	27-1/2
430	42	38	34-1/2	32	29
440	44	40	36-1/2	33-1/2	30-1/2
450	46	41-1/2	38	35	31-1/2

TABLE 5
MEDIUM LOADING AREA
Span Lengths—450 ft. to 550 ft.

Span Length (Feet)	Temperature—Degrees Fahrenheit				
	120	90	60	30	0
	Sag (Inches)				
450	36-1/2	33-1/2	30-1/2	28-1/2	27
460	38	35	31-1/2	30	28
470	40	36-1/2	33	31-1/2	29
480	41-1/2	38-1/2	34-1/2	32-1/2	30-1/2
490	43	40	36	34	31-1/2
500	45	41-1/2	37-1/2	35-1/2	33
510	47	43	39	37	34-1/2
520	48-1/2	45	40-1/2	38-1/2	35-1/2
530	50-1/2	46-1/2	42	40	37
540	52-1/2	48-1/2	43-1/2	41-1/2	38-1/2
550	54-1/2	50	45-1/2	43	40

TABLE 6
LIGHT LOADING AREA
Span Lengths—350 ft. to 450 ft.

Span Length (Feet)	Temperature—Degrees Fahrenheit				
	120	90	60	30	0
	Sag (Inches)				
350	30-1/2	27-1/2	25-1/2	22-1/2	20-1/2
360	32-1/2	29	27	24	22
370	34	31	28-1/2	25-1/2	23
380	36	32-1/2	30	26-1/2	24-1/2
390	38	34	32	28	25-1/2
400	40	36	33-1/2	29-1/2	27
410	42	38	35	31	28-1/2
420	44	39-1/2	37	32-1/2	29-1/2
430	46	41-1/2	38-1/2	34	31
440	48-1/2	43-1/2	40-1/2	35-1/2	32-1/2
450	50-1/2	45-1/2	42-1/2	37-1/2	34

TABLE 7
LIGHT LOADING AREA
Span Lengths—450 ft. to 600 ft.

Span Length (Feet)	Temperature—Degrees Fahrenheit				
	120	90	60	30	0
	Sag (Inches)				
450	40	37	35-1/2	31-1/2	29
460	42	38-1/2	37	33	30-1/2
470	44	40	38-1/2	34-1/2	32
480	46	42	40-1/2	36	33-1/2
490	48	43-1/2	42	37-1/2	34-1/2
500	49-1/2	45-1/2	44	39	36
510	51-1/2	47-1/2	45-1/2	40-1/2	37-1/2
520	54	49	47-1/2	42	39
530	56	51	49	43-1/2	40-1/2
540	58	53	51	45-1/2	42
550	60	55	53	47	44
560	62	57	55	49	45-1/2
570	64-1/2	59	57	50-1/2	47
580	67	61	59	52	48-1/2
590	69	63	61	54	50
600	71-1/2	65-1/2	63	56	52