

**BELL SYSTEM PRACTICES**  
**Outside Plant Construction**  
**and Maintenance**

**SECTION G51.125.7**  
**Issue 1, July, 1955**  
**AT&T Co Standard**

**SUSPENSION STRAND**  
**STRAND TENSIONS AND SAGS**  
**10M STRAND — ALUMINUM**  
**CONDUCTOR CABLES**

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**1. GENERAL**

1.01 This section covers the approximate sags and strand tensions with the cable in place for **aluminum conductor cables on 10,000 pound suspension strand.**

1.02 The values of cable-in-place sags and tensions are for strand which was placed at the proper stringing tension (see G51.125.1) and with no wind or ice loads present at the time of measurement. However, wind loads alone, under average conditions, have little effect on sags and tensions.

1.03 These values apply for all aluminum conductor cables on 10,000 pound suspension strand regardless of conductor gauge, cable makeup, sheath material or storm loading area.

1.04 The maximum span lengths for various weights of cable in each of the storm loading areas are listed in the sections on the selection of suspension strand.

**2. TENSIONS AND SAGS WITH CABLE IN PLACE**

2.01 When 10,000 pound suspension strand is placed at the proper stringing tension, the approximate sags and tensions with an aluminum conductor cable in place will be as listed in the following tables.

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	100		125		150		175		200		225		250	
		Sag (In.)	Tens. (Lbs.)												
0.1	0	3	2000	4	2000	6	2000	8	2000	11	2000	14	2000	17	2000
	20	3	1825	5	1800	7	1800	9	1825	12	1825	15	1825	19	1825
	40	3	1600	5	1625	8	1625	10	1625	14	1650	17	1650	21	1650
	60	4	1425	6	1425	9	1450	12	1450	15	1475	19	1475	23	1500
	80	5	1225	7	1250	10	1275	13	1300	17	1300	21	1325	26	1350
	100	5	1050	8	1075	11	1100	15	1125	19	1175	24	1200	28	1225
0.2	0	3	2025	5	2025	8	2025	11	2050	14	2050	17	2050	21	2075
	20	4	1825	6	1825	9	1850	12	1850	15	1875	19	1875	23	1900
	40	4	1625	7	1650	10	1675	13	1675	17	1700	21	1725	25	1750
	60	5	1450	8	1475	11	1500	14	1525	18	1550	23	1575	28	1600
	80	6	1275	9	1300	12	1325	16	1350	20	1400	25	1425	30	1475
	100	6	1100	10	1125	13	1175	18	1225	22	1250	27	1300	33	1350
0.3	0	4	2025	7	2050	9	2075	13	2075	16	2100	20	2125	25	2150
	20	5	1850	7	1875	10	1875	14	1900	18	1950	22	1950	27	2000
	40	5	1650	8	1675	11	1700	15	1750	19	1775	24	1800	29	1850
	60	6	1475	9	1500	12	1550	17	1575	21	1625	26	1675	31	1700
	80	7	1300	10	1350	14	1400	18	1450	23	1475	28	1525	34	1575
	100	8	1125	11	1200	15	1250	20	1300	25	1350	31	1425	36	1475
0.4	0	5	2050	8	2075	11	2100	14	2125	19	2150	23	2200	28	2225
	20	5	1875	8	1900	12	1925	16	1975	20	2000	25	2050	30	2075
	40	6	1675	9	1725	13	1750	17	1800	22	1850	27	1900	32	1950
	60	7	1500	10	1550	14	1600	19	1650	24	1700	29	1750	35	1800
	80	8	1325	11	1400	16	1450	20	1525	26	1575	31	1625	37	1700
	100	9	1175	13	1250	17	1325	22	1400	28	1450	33	1525	40	1575

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	275		300		325		350		375		400		425	
		Sag (In.)	Tens. (Lbs.)												
0.1	0	21	2000	25	2000	29	2000	34	1975	39	1975	45	1975	51	1975
	20	23	1825	27	1825	32	1825	37	1825	42	1850	48	1850	54	1850
	40	25	1675	30	1675	35	1675	40	1700	46	1700	52	1700	58	1725
	60	28	1525	33	1525	38	1550	44	1550	50	1575	56	1575	63	1600
	80	31	1375	36	1400	41	1425	47	1425	54	1450	60	1475	67	1500
	100	34	1250	39	1275	45	1300	51	1325	58	1350	65	1375	72	1400
0.2	0	26	2075	30	2075	36	2100	41	2100	47	2125	53	2125	60	2150
	20	28	1925	33	1925	38	1950	44	1975	50	1975	56	2000	63	2000
	40	30	1775	35	1800	41	1800	47	1825	54	1850	60	1875	67	1900
	60	33	1625	38	1650	44	1675	51	1700	57	1725	64	1750	71	1775
	80	36	1500	41	1525	48	1575	54	1600	61	1625	68	1650	76	1675
	100	39	1375	45	1425	51	1450	58	1500	65	1525	72	1550	80	1600
0.3	0	30	2175	35	2200	41	2200	47	2225	53	2250	60	2275	67	2300
	20	32	2025	38	2050	44	2075	50	2100	57	2125	64	2150	71	2175
	40	34	1875	40	1900	46	1950	53	1975	60	2000	67	2025	75	2075
	60	37	1750	43	1775	50	1825	56	1850	63	1900	71	1925	79	1950
	80	40	1625	46	1657	53	1700	60	1750	67	1800	75	1825	83	1875
	100	43	1525	49	1575	56	1600	63	1650	71	1700	79	1750	87	1775
0.4	0	34	2250	39	2300	46	2325	52	2350	59	2400	66	2425	74	2450
	20	36	2125	42	2150	48	2200	55	2225	62	2275	70	2300	78	2350
	40	38	1975	45	2025	51	2075	58	2125	66	2150	73	2200	81	2225
	60	41	1850	47	1900	54	1950	61	2000	69	2050	77	2100	85	2125
	80	44	1750	50	1800	57	1850	65	1900	73	1950	81	2000	89	2050
	100	46	1650	53	1700	61	1750	68	1800	76	1850	84	1900	93	1950

SUSPENSION STRAND  
 STRAND TENSIONS AND SAGS  
 10M STRAND—ALUMINUM CONDUCTOR CABLES

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	450		475		500		525		550		575		600	
		Sag (In.)	Tens. (Lbs.)												
0.1	0	57	1975	63	1975	70	1975	78	1975	85	1975	—	—		
	20	61	1850	68	1850	75	1850	83	1850	90	1850	—	—		
	40	65	1725	72	1725	80	1725	88	1750	96	1750	—	—		
	60	70	1600	77	1625	85	1625	93	1650	101	1650	—	—		
	80	75	1500	82	1525	90	1550	98	1550	107	1575	—	—		
	100	80	1425	87	1425	96	1450	104	1475	113	1475	—	—		
0.2	0	66	2150	74	2150	81	2175	89	2175	98	2175	—	—		
	20	70	2025	78	2050	86	2050	94	2075	102	2075	—	—		
	40	75	1900	82	1925	90	1950	99	1975	108	1975	—	—		
	60	79	1800	87	1825	95	1850	104	1875	113	1900	—	—		
	80	84	1700	92	1725	100	1750	109	1775	118	1800	—	—		
	100	88	1625	96	1650	105	1675	114	1700	123	1725	—	—		
0.3	0	75	2325	82	2350	91	2350	99	2375	—	—				
	20	79	2200	87	2225	95	2250	104	2275	—	—				
	40	83	2100	91	2125	99	2150	108	2175	—	—				
	60	87	2000	95	2025	104	2050	113	2075	—	—				
	80	91	1900	100	1925	109	1975	118	2000	—	—				
	100	95	1825	104	1850	113	1875	123	1925	—	—				
0.4	0	82	2475	90	2500	99	2550	107	2575	—	—				
	20	86	2375	94	2400	103	2450	112	2475	—	—				
	40	90	2275	98	2300	107	2350	117	2375	—	—				
	60	94	2175	103	2200	112	2250	121	2275	—	—				
	80	98	2075	107	2125	116	2175	126	2200	—	—				
	100	102	2000	111	2050	121	2075	130	2125	—	—				

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	100		125		150		175		200		225		250	
		Sag (In.)	Tens. (Lbs.)												
0.5	0	6	2075	9	2100	12	2150	16	2175	21	2225	26	2275	31	2300
	20	6	1900	9	1925	13	1975	17	2025	22	2075	28	2125	33	2175
	40	7	1700	10	1750	14	1825	19	1875	24	1925	30	1975	35	2025
	60	8	1550	11	1600	16	1675	20	1725	26	1800	32	1850	38	1925
	80	8	1375	12	1450	17	1525	22	1600	28	1675	34	1725	40	1800
	100	9	1225	14	1300	19	1400	24	1475	30	1550	36	1625	43	1700
0.6	0	6	2100	10	2150	13	2175	18	2225	23	2300	28	2350	34	2400
	20	7	1925	10	1975	15	2025	19	2075	24	2150	30	2200	36	2250
	40	7	1750	11	1800	16	1875	21	1925	26	2000	32	2075	38	2125
	60	8	1575	12	1650	17	1725	22	1800	28	1875	34	1950	40	2025
	80	9	1425	14	1500	18	1600	24	1675	30	1750	36	1825	43	1900
	100	10	1275	15	1375	20	1475	26	1550	32	1650	38	1725	45	1800
0.7	0	7	2125	10	2175	15	2225	19	2300	25	2350	30	2425	37	2475
	20	7	1950	11	2000	16	2075	21	2150	26	2225	32	2275	39	2350
	40	8	1775	12	1850	17	1925	22	2000	28	2075	34	2150	41	2225
	60	9	1600	13	1700	18	1775	24	1875	30	1950	36	2025	43	2125
	80	10	1475	15	1550	20	1650	26	1750	32	1825	38	1925	45	2000
	100	11	1325	16	1425	21	1525	27	1625	34	1725	40	1825	48	1900
0.8	0	7	2150	11	2200	16	2275	21	2350	26	2425	33	2500	39	2575
	20	8	1975	12	2050	17	2125	22	2200	28	2275	34	2375	41	2450
	40	9	1800	13	1900	18	1975	24	2075	30	2150	36	2250	43	2325
	60	10	1650	14	1750	20	1850	25	1950	32	2025	38	2125	45	2200
	80	11	1500	16	1625	21	1725	27	1825	33	1925	40	2025	48	2100
	100	12	1375	17	1500	23	1600	29	1700	35	1825	42	1925	50	2000

SUSPENSION STRAND  
 STRAND TENSIONS AND SAGS  
 10M STRAND—ALUMINUM CONDUCTOR CABLES

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	275		300		325		350		375		400		425	
		Sag (In.)	Tens. (Lbs.)												
0.5	0	37	2350	43	2400	50	2450	57	2475	64	2525	72	2575	80	2600
	20	39	2225	46	2275	53	2325	60	2375	67	2400	75	2450	84	2500
	40	42	2100	48	2150	56	2200	63	2250	71	2300	79	2350	87	2400
	60	44	1975	51	2025	58	2075	66	2150	74	2200	82	2250	91	2300
	80	47	1875	54	1925	61	1975	69	2050	77	2100	86	2150	95	2200
	100	50	1750	57	1825	65	1900	73	1950	81	2000	89	2075	98	2125
0.6	0	40	2450	47	2500	54	2550	61	2600	69	2650	77	2700	86	2750
	20	43	2325	49	2375	57	2425	64	2500	72	2550	80	2600	89	2650
	40	45	2200	52	2250	59	2325	67	2375	75	2425	84	2500	93	2550
	60	47	2075	55	2150	62	2225	70	2275	78	2350	87	2400	96	2450
	80	50	1975	57	2050	65	2125	73	2175	82	2250	91	2300	100	2375
	100	53	1875	60	1950	68	2025	76	2100	85	2150	94	2225	103	2275
0.7	0	43	2550	50	2600	58	2675	65	2725	73	2775	82	2850	91	2900
	20	45	2425	53	2475	60	2550	68	2625	76	2675	85	2725	94	2800
	40	48	2300	55	2375	63	2450	71	2500	79	2575	88	2625	97	2700
	60	50	2200	58	2275	66	2350	74	2400	83	2475	92	2550	101	2600
	80	53	2100	60	2175	69	2250	77	2325	86	2375	95	2450	104	2525
	100	55	2000	63	2075	71	2150	80	2225	89	2300	98	2375	108	2425
0.8	0	46	2650	53	2700	61	2775	69	2850	77	2900	86	2975	95	3050
	20	48	2525	56	2600	64	2675	72	2725	80	2800	89	2875	99	2950
	40	50	2400	58	2475	66	2550	75	2625	83	2700	93	2775	102	2850
	60	53	2300	61	2375	69	2450	78	2525	86	2600	96	2675	105	2750
	80	55	2200	63	2275	72	2375	80	2450	90	2525	99	2600	109	2675
	100	58	2100	66	2200	75	2275	83	2350	93	2425	102	2525	112	2575

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	450		475		500		525		550		575		600	
		Sag (In.)	Tens. (Lbs.)												
0.5	0	88	2650	97	2675	106	2725	—	—						
	20	92	2550	101	2575	110	2625	—	—						
	40	96	2425	105	2475	114	2525	—	—						
	60	100	2350	109	2400	119	2425	—	—						
	80	104	2250	113	2300	123	2350	—	—						
	100	108	2175	117	2225	127	2275	—	—						
0.6	0	94	2800	104	2850	—	—								
	20	98	2700	107	2750	—	—								
	40	102	2600	111	2650	—	—								
	60	105	2500	115	2550	—	—								
	80	109	2425	119	2475	—	—								
	100	113	2350	123	2400	—	—								
0.7	0	100	2950	109	3000	—	—								
	20	103	2850	113	2900	—	—								
	40	107	2750	117	2825	—	—								
	60	110	2675	120	2725	—	—								
	80	114	2575	124	2650	—	—								
	100	118	2500	128	2575	—	—								
0.8	0	105	3100	—	—										
	20	108	3000	—	—										
	40	112	2900	—	—										
	60	115	2825	—	—										
	80	119	2750	—	—										
	100	122	2650	—	—										

SUSPENSION STRAND  
 STRAND TENSIONS AND SAGS  
 10M STRAND—ALUMINUM CONDUCTOR CABLES

# ALUMINUM CONDUCTOR CABLE, 10M STRAND

## Span Length (Feet)

Cable Weight Lbs./Ft.	Temp. (°F)	100		125		150		175		200		225		250	
		Sag (In.)	Tens. (Lbs.)												
0.9	0	8	2175	12	2250	17	2325	22	2400	28	2500	35	2575	41	2650
	20	9	2000	13	2100	18	2175	24	2275	30	2350	36	2450	43	2525
	40	10	1850	14	1950	19	2025	25	2125	31	2225	38	2325	45	2425
	60	10	1700	15	1800	21	1900	27	2000	33	2100	40	2200	48	2300
	80	11	1550	16	1675	22	1775	28	1900	35	2000	42	2100	50	2200
	100	12	1425	18	1550	24	1675	30	1775	37	1900	44	2000	52	2100
1.0	0	9	2200	13	2300	18	2375	24	2475	30	2550	36	2650	43	2750
	20	9	2025	14	2125	19	2225	25	2325	31	2425	38	2525	45	2625
	40	10	1875	15	1975	20	2100	27	2200	33	2300	40	2400	47	2500
	60	11	1725	16	1850	22	1975	28	2075	35	2200	42	2300	50	2400
	80	12	1600	17	1725	23	1850	30	1975	37	2075	44	2200	52	2300
	100	13	1475	19	1600	25	1725	31	1850	38	1975	46	2100	54	2200
1.2	0	10	2250	15	2375	20	2475	26	2575	33	2700	40	2800	47	2900
	20	10	2100	16	2225	21	2325	28	2450	34	2575	42	2675	49	2800
	40	11	1950	17	2075	22	2200	29	2325	36	2450	43	2575	51	2675
	60	12	1800	18	1950	24	2075	30	2225	38	2350	45	2475	53	2575
	80	13	1675	19	1825	25	1975	32	2100	39	2225	47	2375	55	2475
	100	14	1550	20	1725	27	1875	34	2000	41	2150	49	2275	58	2400
1.4	0	11	2325	16	2450	22	2575	28	2700	35	2825	43	2950	51	3075
	20	12	2175	17	2300	23	2450	30	2575	37	2700	45	2825	53	2950
	40	12	2025	18	2175	24	2325	31	2450	39	2600	46	2725	55	2850
	60	13	1900	19	2050	26	2200	33	2350	40	2500	48	2625	57	2750
	80	14	1775	20	1925	27	2100	34	2250	42	2400	50	2525	59	2675
	100	15	1650	21	1825	28	2000	36	2150	44	2300	52	2425	61	2575

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	275		300		325		350		375		400		425	
		Sag (In.)	Tens. (Lbs.)												
0.9	0	49	2725	56	2825	64	2900	73	2975	81	3025	90	3100	100	3175
	20	51	2625	59	2700	67	2775	75	2850	84	2925	93	3000	103	3075
	40	53	2500	61	2600	69	2675	78	2750	87	2825	96	2900	106	2975
	60	55	2400	63	2500	72	2575	81	2650	90	2750	100	2825	109	2900
	80	58	2300	66	2400	75	2475	84	2575	93	2650	103	2725	113	2825
	100	60	2200	69	2300	77	2400	87	2475	96	2575	106	2650	116	2725
1.0	0	51	2825	59	2925	67	3000	76	3075	85	3150	94	3250	104	3325
	20	53	2725	61	2800	70	2900	78	2975	88	3050	97	3150	107	3225
	40	55	2600	64	2700	72	2800	81	2875	90	2950	100	3050	110	3125
	60	58	2500	66	2600	75	2700	84	2775	93	2875	103	2950	113	3050
	80	60	2400	68	2500	77	2600	87	2700	96	2775	106	2875	116	2950
	100	62	2325	71	2425	80	2525	89	2600	99	2700	109	2800	120	2875
1.2	0	55	3000	64	3100	73	3200	82	3300	91	3400	101	3475	111	3575
	20	57	2900	66	3000	75	3100	84	3200	94	3300	104	3400	114	3475
	40	60	2800	68	2900	77	3000	87	3100	97	3200	107	3300	117	3400
	60	62	2700	71	2800	80	2925	90	3025	99	3125	110	3225	120	3300
	80	64	2600	73	2725	82	2825	92	2925	102	3025	113	3125	123	3225
	100	66	2525	75	2625	85	2750	95	2850	105	2950	116	3050	127	3150
1.4	0	59	3200	68	3300	78	3425	87	3525	97	3625	107	3725	—	—
	20	61	3075	70	3200	80	3325	90	3425	100	3525	110	3625	—	—
	40	64	2975	73	3100	82	3225	92	3325	102	3450	113	3550	—	—
	60	66	2875	75	3000	85	3125	95	3250	105	3350	116	3450	—	—
	80	68	2800	77	2925	87	3050	97	3150	108	3275	119	3375	—	—
	100	70	2700	80	2825	89	2950	100	3075	110	3200	121	3300	—	—

SUSPENSION STRAND  
 STRAND TENSIONS AND SAGS  
 10M STRAND—ALUMINUM CONDUCTOR CABLES

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	100		125		150		175		200		225		250	
		Sag (In.)	Tens. (Lbs.)												
1.6	0	12	2375	17	2525	24	2675	30	2825	38	2950	46	3100	54	3225
	20	13	2250	18	2400	25	2550	32	2700	39	2850	48	2975	56	3125
	40	13	2100	19	2275	26	2425	33	2575	41	2725	49	2875	58	3025
	60	14	1975	20	2150	27	2325	35	2475	43	2625	51	2775	60	2925
	80	15	1850	22	2025	29	2200	36	2375	44	2525	53	2700	62	2825
	100	16	1725	23	1925	30	2100	38	2275	46	2450	55	2600	64	2750
1.8	0	13	2450	19	2625	25	2775	32	2925	40	3100	48	3250	57	3400
	20	13	2300	20	2475	26	2650	34	2825	42	2975	50	3125	59	3275
	40	14	2175	21	2350	28	2525	35	2700	43	2875	52	3025	61	3175
	60	15	2050	22	2250	29	2425	37	2600	45	2775	54	2925	63	3100
	80	16	1925	23	2125	30	2325	38	2500	46	2675	55	2850	65	3000
	100	17	1825	24	2025	31	2225	39	2400	48	2575	57	2750	67	2925
2.0	0	14	2525	20	2700	27	2875	34	3050	42	3225	51	3375	60	3550
	20	14	2375	21	2575	28	2750	36	2925	44	3100	53	3275	62	3450
	40	15	2250	22	2450	29	2650	37	2825	45	3000	54	3175	64	3350
	60	16	2125	23	2325	30	2525	38	2725	47	2900	56	3075	65	3250
	80	17	2000	24	2225	31	2425	40	2625	48	2825	58	3000	67	3175
	100	18	1900	25	2125	33	2350	41	2525	50	2725	59	2900	69	3075
2.2	0	14	2575	21	2775	28	2975	36	3175	44	3350	53	3525	63	3700
	20	15	2450	22	2650	29	2850	37	3050	46	3250	55	3425	64	3600
	40	16	2325	23	2550	30	2750	39	2950	47	3125	56	3325	66	3500
	60	17	2200	24	2425	32	2650	40	2850	49	3050	58	3225	68	3400
	80	18	2100	25	2325	33	2550	41	2750	50	2950	60	3150	70	3325
	100	19	2000	26	2225	34	2450	43	2650	52	2850	61	3050	72	3250

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	275		300		325		350		375		400		425	
		Sag (In.)	Tens. (Lbs.)												
1.6	0	63	3375	72	3500	82	3600	92	3725	102	3850	113	3950	—	—
	20	65	3250	74	3400	84	3525	94	3625	105	3750	116	3875	—	—
	40	67	3150	77	3300	87	3425	97	3550	108	3675	119	3775	—	—
	60	69	3075	79	3200	89	3325	99	3450	110	3575	121	3700	—	—
	80	71	2975	81	3125	91	3250	102	3375	113	3500	124	3625	—	—
	100	73	2900	83	3025	94	3175	104	3300	115	3425	127	3550	—	—
1.8	0	66	3525	76	3675	86	3800	97	3925	107	4075	119	4200	—	—
	20	68	3425	78	3575	88	3700	99	3850	110	3975	121	4100	—	—
	40	70	3325	80	3475	91	3625	101	3750	112	3875	124	4025	—	—
	60	72	3250	82	3400	93	3525	104	3675	115	3800	126	3925	—	—
	80	74	3150	85	3300	95	3450	106	3575	117	3725	129	3850	—	—
	100	76	3075	87	3225	97	3375	108	3500	120	3650	132	3775	—	—
2.0	0	70	3700	80	3850	90	4000	101	4125	112	4275	—	—	—	—
	20	72	3600	82	3750	92	3900	103	4050	114	4175	—	—	—	—
	40	73	3500	84	3650	94	3800	105	3950	117	4100	—	—	—	—
	60	75	3425	86	3575	97	3725	108	3875	119	4025	—	—	—	—
	80	77	3325	88	3500	99	3650	110	3800	122	3925	—	—	—	—
	100	79	3250	90	3400	101	3550	112	3700	124	3850	—	—	—	—
2.2	0	73	3850	83	4025	94	4175	105	4325	—	—	—	—	—	—
	20	74	3775	85	3925	96	4075	107	4250	—	—	—	—	—	—
	40	76	3675	87	3850	98	4000	109	4150	—	—	—	—	—	—
	60	78	3575	89	3750	100	3925	111	4075	—	—	—	—	—	—
	80	80	3500	91	3675	102	3825	114	4000	—	—	—	—	—	—
	100	82	3425	93	3575	104	3750	116	3900	—	—	—	—	—	—

SUSPENSION STRAND  
 STRAND TENSIONS AND SAGS  
 10M STRAND—ALUMINUM CONDUCTOR CABLES

**ALUMINUM CONDUCTOR CABLE, 10M STRAND**  
**Span Length (Feet)**

Cable Weight Lbs./Ft.	Temp. (°F)	100		125		150		175		200		225		250	
		Sag (In.)	Tens. (Lbs.)												
2.4	0	15	2650	22	2875	29	3075	37	3275	46	3475	55	3650	65	3850
	20	16	2525	23	2750	30	2950	39	3175	48	3375	57	3550	67	3750
	40	17	2400	24	2625	32	2850	40	3050	49	3275	59	3450	69	3650
	60	18	2275	25	2525	33	2750	41	2975	51	3175	60	3375	70	3550
	80	18	2175	26	2425	34	2650	43	2875	52	3075	62	3275	72	3475
	100	19	2075	27	2325	35	2550	44	2775	54	3000	63	3200	74	3400

Cable Weight Lbs./Ft.	Temp. (°F)	275		300		325		350		375		400		425	
		Sag (In.)	Tens. (Lbs.)												
2.4	0	75	4025	86	4200	97	4350	109	4525	—	—				
	20	77	3925	88	4100	99	4275	111	4425	—	—				
	40	79	3825	90	4000	101	4175	113	4350	—	—				
	60	81	3750	92	3925	103	4100	115	4275	—	—				
	80	83	3650	94	3850	105	4025	117	4175	—	—				
	100	85	3575	96	3750	107	3925	119	4100	—	—				