

## SUSPENSION STRAND TENSION AND SAGS COPPER CONDUCTOR CABLES

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### 2. STRINGING TENSION FOR SUSPENSION STRAND TO SUPPORT COPPER CONDUCTOR CABLE

2.01 Place suspension strand for supporting copper conductor cable at the appropriate tension as shown in Tables A, B, C, D, or E. Determine the temperature by placing a thermometer in a vertical position in approximately the same sun or shade condition existing along the section of strand being tensioned.

### 3. METHOD OF TENSIONING STRAND

3.01 Pull the strand until the strand tension is greater than required; then gradually slack off until the required strand tension is obtained. Use the strand dynamometer to measure strand tension. The extra tension should not exceed the required tension by more than 500 pounds.

3.02 The points at which the strand tension should be measured during tensioning are:

(a) Straight sections, free from changes in grade.

(1) Less than 10 spans: Measure the tension near the middle of the section of strand.

(2) 10 to 20 spans: Measure the tension first at a point about two-thirds of the distance from the pulling end and then at a point about one-third of the distance from the pulling end.

(3) Over 20 spans: Measure the tension first at a point about three-fourths of the distance from the pulling end, then at points about one-half the distance, and finally at one-fourth of the distance.

(b) Sections including changes in grade or corners.

### 1. GENERAL

1.01 This section covers the stringing tensions used in placing suspension strand for supporting copper conductor cables. It also includes the approximate strand tensions and sags with copper conductor cable in place on 6,000, 6,600, 10,000, 16,000, and 25,000 pound suspension strand.

1.02 This section is reissued to extend and adjust the various tables included for sag and tension data. Due to the nature of the changes, revision arrows have not been used.

1.03 The strand stringing tensions given in this section are applicable in all loading areas for all types of copper conductor cable regardless of whether the cable sheath is lead, alpeph, stalpeph, aerial tape armor, etc.

1.04 The values given for sag and tension with the cable in place are coincidental with span length as described in Section 627-200-015. The values indicated in the tables are valid for all copper conductor cables regardless of core make-up, gauge, or sheath if the strand is placed at the proper stringing tension relative to the span length.

#### NOTICE

This document is either  
AT&T - Proprietary, or WESTERN  
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Pursuant to Judge Greene's Order of August 5, 1983, beginning on January 1, 1984, AT&T will cease to use "Bell" and the Bell symbol, with the exceptions as set forth in that Order. Pursuant thereto, any reference to "BELL" and/or the BELL symbol in this document is hereby deleted and "expurgated".

**TABLE A**  
**STRINGING TENSIONS FOR 6000 POUND SUSPENSION STRAND**

TEMPERATURE (°F)	STRINGING TENSION (POUNDS)		
	SPANS TO 250 FT	SPANS 250 TO 450 FT	SPANS OVER 450 FT
0	1550	1475	1375
20	1400	1350	1275
40	1250	1225	1175
60	1100	1100	1100
80	900	1000	1025
100	825	900	950

**TABLE B**  
**STRINGING TENSIONS FOR 6600 POUND SUSPENSION STRAND**

TEMPERATURE (°F)	STRINGING TENSION (POUNDS)		
	SPANS TO 250 FT	SPANS 250 TO 450 FT	SPANS OVER 450 FT
0	900	850	775
20	800	750	725
40	700	675	650
60	600	600	600
80	500	525	550
100	425	475	525

**TABLE C**  
**STRINGING TENSIONS FOR 10,000 POUND  
 SUSPENSION STRAND**

TEMPERATURE (°F)	STRINGING TENSION (POUNDS)	
	SPANS TO 400 FT	SPANS OVER 400 FT
0	2675	2600
20	2475	2450
40	2300	2275
60	2100	2100
80	1925	1950
100	1725	1800

**TABLE D**  
**STRINGING TENSIONS FOR 16,000 POUND  
 SUSPENSION STRAND**

TEMPERATURE (°F)	STRINGING TENSION (POUNDS) ALL SPANS
0	4425
20	4150
40	3875
60	3600
80	3325
100	3075

**TABLE E**  
**STRINGING TENSIONS FOR 25,000 POUND  
 SUSPENSION STRAND**

TEMPERATURE (°F)	STRINGING TENSION (POUNDS) ALL SPANS
0	9175
20	8800
40	8400
60	8000
80	7625
100	7250

- (1) Measure the tension first at the far side of the farthest corner or pole where change in grade occurs, and then at each corner or "change in grade" pole, working toward the pulling end.
- (2) As the desired tension is obtained in each portion of strand being pulled, tighten the suspension clamps.

#### 4. TENSIONS AND SAGS WITH CABLE IN PLACE

4.01 When suspension strand is placed at the proper stringing tension, the approximate sags and tensions with a copper conductor cable in place will be as listed in Tables F through V.









TABLE J  
COPPER CONDUCTOR CABLE, 10M STRAND  
SPAN LENGTH (FEET)

CABLE TEMP 100 150 200 250 300 350 400 450 500 550 600	CABLE WEIGHT 100 150 200 250 300 350 400 450 500 550 600	150			200			250			300			350			400			450			500			550			600																															
		SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)	SAG (IN)	TENS (LBS)	TEMP (°F)																													
0	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755
0.2	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755
0.4	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755
0.6	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755
0.8	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755
1.0	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755
1.2	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755
1.4	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755
1.6	3	2125	4	2755	6	2755	8	2755	10	2755	12	2755	14	2755	16	2755	18	2755	20	2755	22	2755	24	2755	26	2755	28	2755	30	2755	32	2755	34	2755	36	2755	38	2755	40	2755	42	2755	44	2755	46	2755	48	2755	50	2755	52	2755	54	2755	56	2755	58	2755	60	2755







TABLE K (Contd)  
 COPPER CONDUCTOR CABLE, 10M STRAND  
 SPAN LENGTH (FEET)

CABLE WEIGHT LBS/FT	TEMP (°F)	100		125		150		175		200		225		250		275		300		325		350		375	
		SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)
6.0	0	23	4175	32	4600	42	5000	53	5400	65	5775	78	6125	91	6475	—	—	—	—	—	—	—	—	—	—
	20	23	4050	33	4500	43	4900	54	5300	66	5675	79	6050	92	6400	—	—	—	—	—	—	—	—	—	—
	40	24	3950	33	4375	44	4800	55	5200	67	5575	80	5950	93	6300	—	—	—	—	—	—	—	—	—	—
	60	24	3850	34	4275	45	4700	56	5100	69	5500	81	5850	95	6225	—	—	—	—	—	—	—	—	—	—
	80	25	3750	35	4200	46	4625	57	5025	70	5400	82	5775	96	6125	—	—	—	—	—	—	—	—	—	—
100	26	3650	36	4100	47	4525	58	4925	71	5325	84	5700	97	6050	—	—	—	—	—	—	—	—	—	—	
6.5	0	24	4325	34	4750	44	5175	56	5600	68	6000	81	6400	—	—	—	—	—	—	—	—	—	—	—	—
	20	24	4200	34	4650	45	5075	57	5500	69	5900	82	6300	—	—	—	—	—	—	—	—	—	—	—	—
	40	25	4100	35	4550	46	4975	58	5400	70	5825	83	6200	—	—	—	—	—	—	—	—	—	—	—	—
	60	26	3975	36	4450	47	4900	59	5325	71	5725	84	6125	—	—	—	—	—	—	—	—	—	—	—	—
	80	26	3875	37	4350	48	4800	60	5225	72	5650	86	6025	—	—	—	—	—	—	—	—	—	—	—	—
100	27	3775	37	4250	49	4700	61	5150	74	5550	87	5950	—	—	—	—	—	—	—	—	—	—	—	—	
7.0	0	24	4450	35	4925	46	5375	57	5825	70	6250	83	6650	—	—	—	—	—	—	—	—	—	—	—	—
	20	25	4350	35	4825	46	5275	58	5725	71	6150	84	6550	—	—	—	—	—	—	—	—	—	—	—	—
	40	26	4225	36	4725	47	5200	59	5625	72	6050	85	6475	—	—	—	—	—	—	—	—	—	—	—	—
	60	26	4125	37	4625	48	5100	60	5550	73	5975	87	6375	—	—	—	—	—	—	—	—	—	—	—	—
	80	27	4025	38	4525	49	5000	61	5450	74	5875	88	6300	—	—	—	—	—	—	—	—	—	—	—	—
100	28	3925	38	4450	50	4925	62	5375	75	5800	89	6200	—	—	—	—	—	—	—	—	—	—	—	—	
7.5	0	26	4575	36	5075	47	5550	60	6025	73	6450	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	26	4475	37	4975	48	5450	61	5925	74	6375	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	27	4375	37	4875	49	5375	61	5825	75	6275	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	27	4275	38	4775	50	5275	62	5750	76	6200	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	80	28	4175	39	4700	51	5175	63	5650	77	6100	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	29	4075	40	4600	52	5100	64	5575	78	6025	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8.0	0	26	4725	37	5250	49	5750	61	6225	74	6700	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	27	4600	38	5150	49	5650	62	6125	75	6600	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	28	4500	38	5050	50	5550	63	6050	76	6500	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	28	4400	39	4950	51	5475	64	5950	77	6425	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	80	29	4300	40	4850	52	5375	65	5875	78	6350	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	29	4225	41	4775	53	5300	66	5775	79	6250	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8.5	0	27	4825	38	5375	50	5900	62	6400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	20	28	4725	39	5275	50	5800	63	6300	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	40	28	4625	39	5175	51	5700	64	6200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	60	29	4525	40	5075	52	5600	65	6125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	80	29	4425	41	5000	53	5525	66	6050	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100	30	4325	41	4900	54	5450	67	6000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

TABLE L  
COPPER CONDUCTOR CABLE, 16M STRAND  
SPAN LENGTH (FEET)

CABLE WEIGHT LBS/FT	TEMP (°F)	275		300		325		350		375		400		425		450		475		500		525		550		575		600	
		SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)
0.2	0	15	4525	18	4525	21	4550	24	4550	27	4550	31	4550	35	4575	39	4575	44	4600	48	4600	53	4600	58	4625	63	4625	69	4625
	20	16	4250	19	4250	22	4275	25	4275	29	4275	33	4300	37	4300	41	4325	46	4325	51	4350	56	4350	61	4375	67	4400	72	4400
	40	17	3975	20	3975	23	4000	27	4000	31	4025	35	4050	39	4050	44	4075	49	4100	54	4100	59	4125	65	4150	70	4150	76	4175
	60	18	3700	21	3725	25	3725	29	3750	33	3775	37	3800	42	3800	47	3825	52	3850	57	3875	63	3900	68	3925	74	3950	80	3950
	80	19	3425	23	3450	27	3475	31	3500	35	3525	40	3550	45	3575	50	3600	55	3625	61	3650	66	3675	72	3700	78	3725	85	3750
100	21	3175	25	3200	29	3225	33	3250	38	3300	43	3325	48	3350	53	3375	59	3400	64	3425	70	3475	77	3500	83	3525	90	3550	
0.4	0	19	4600	23	4625	27	4650	31	4675	35	4700	40	4725	45	4750	50	4775	56	4800	61	4825	67	4875	73	4900	80	4925	86	4950
	20	21	4350	24	4375	28	4400	33	4425	37	4450	42	4475	47	4500	53	4550	58	4575	64	4600	70	4650	77	4675	83	4700	90	4750
	40	22	4075	26	4100	30	4150	35	4175	40	4200	45	4250	50	4275	56	4325	61	4350	68	4375	74	4425	80	4450	87	4500	94	4525
	60	23	3825	28	3850	32	3900	37	3925	42	3975	47	4000	53	4050	59	4100	65	4125	71	4175	77	4225	84	4250	91	4300	98	4325
	80	25	3575	29	3625	34	3650	39	3700	44	3750	50	3800	56	3825	62	3875	68	3925	75	3975	81	4025	88	4050	95	4100	103	4150
100	27	3325	32	3375	36	3425	42	3475	47	3525	53	3575	59	3625	65	3675	72	3725	78	3775	85	3825	93	3875	100	3925	107	3975	
0.6	0	24	4725	28	4750	33	4800	38	4825	43	4875	48	4925	54	4975	60	5000	66	5050	73	5100	80	5150	86	5200	94	5250	101	5275
	20	25	4450	30	4500	34	4550	40	4600	45	4650	51	4700	57	4750	63	4800	69	4850	76	4900	83	4950	90	4975	97	5050	105	5075
	40	27	4200	31	4250	36	4300	42	4350	47	4425	53	4475	59	4525	66	4575	72	4625	79	4675	86	4725	94	4800	101	4850	109	4900
	60	28	3975	33	4025	38	4075	44	4125	50	4200	56	4250	62	4300	69	4375	75	4425	83	4500	90	4550	98	4600	105	4650	113	4725
	80	30	3725	35	3800	41	3850	46	3925	52	3975	59	4050	65	4100	72	4175	79	4225	86	4300	94	4350	102	4425	110	4475	118	4550
100	32	3500	37	3575	43	3650	48	3700	55	3775	62	3850	69	3925	76	3975	83	4050	90	4125	98	4175	106	4250	114	4300	122	4375	
0.8	0	28	4850	33	4900	38	4950	44	5000	50	5075	56	5125	62	5175	69	5250	76	5300	83	5375	90	5425	98	5500	106	5550	—	—
	20	29	4600	35	4650	40	4725	46	4775	52	4850	58	4900	65	4975	72	5050	79	5100	86	5175	94	5250	102	5300	110	5375	—	—
	40	31	4350	36	4425	42	4475	48	4550	54	4625	61	4700	68	4775	75	4850	82	4900	90	4975	97	5050	105	5125	114	5175	—	—
	60	33	4125	38	4200	44	4275	50	4350	57	4425	64	4500	71	4575	78	4650	85	4725	93	4800	101	4875	109	4950	118	5000	—	—
	80	35	3900	40	3975	46	4050	53	4150	59	4225	66	4300	74	4375	81	4450	89	4550	97	4625	105	4700	113	4775	122	4850	—	—
100	37	3675	43	3775	49	3850	55	3950	62	4025	69	4125	77	4200	84	4275	92	4375	100	4450	109	4525	117	4600	126	4675	—	—	

**TABLE M**  
**COPPER CONDUCTOR CABLE, 16M STRAND**  
**SPAN LENGTH (FEET)**

CABLE WEIGHT LBS/FT	TEMP (°F)	225		250		275		300		325		350		375		400		425		450		475		500		525		550	
		SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)
1.0	0	22	4825	27	4900	32	4975	37	5025	43	5100	49	5175	56	5275	62	5350	70	5400	77	5500	84	5575	92	5650	100	5725	100	5800
	20	23	4575	28	4650	33	4725	39	4800	46	4875	51	4975	58	5050	65	5125	72	5225	80	5300	87	5375	96	5450	104	5550	112	5625
	40	24	4325	30	4425	35	4500	41	4600	47	4675	54	4750	61	4850	68	4925	75	5025	83	5100	91	5200	99	5275	107	5350	116	5450
	60	26	4100	31	4200	37	4275	43	4375	49	4450	56	4550	63	4650	70	4725	78	4825	86	4925	94	5000	102	5100	111	5175	120	5275
	80	27	3875	33	3975	39	4075	45	4175	52	4250	59	4350	66	4450	73	4550	81	4650	89	4750	97	4825	106	4925	114	5025	123	5100
	100	29	3650	35	3750	41	3875	47	3975	54	4075	61	4175	69	4275	76	4375	84	4475	92	4575	101	4675	109	4775	118	4850	127	4950
1.2	0	24	4925	30	5025	35	5100	41	5200	48	5275	54	5375	61	5450	69	5550	76	5550	84	5750	92	5825	101	5925	109	6025	109	6025
	20	25	4700	31	4775	37	4875	43	4975	50	5075	57	5150	64	5250	71	5350	79	5450	87	5550	95	5650	104	5750	113	5825	—	—
	40	27	4450	33	4550	39	4650	45	4750	52	4850	59	4950	66	5075	74	5175	82	5275	90	5375	98	5475	107	5575	116	5675	—	—
	60	29	4225	34	4325	41	4450	47	4550	54	4650	61	4775	69	4875	77	4975	85	5075	93	5200	102	5300	110	5400	120	5500	—	—
	80	30	4000	36	4125	43	4250	49	4350	56	4475	64	4575	71	4700	79	4800	88	4925	96	5025	105	5125	114	5225	123	5325	—	—
	100	32	3800	38	3925	45	4050	52	4175	59	4275	66	4400	74	4525	82	4625	91	4750	99	4850	108	4975	117	5075	127	5175	—	—
1.4	0	27	5025	33	5125	39	5250	45	5350	52	5450	59	5550	67	5675	74	5775	82	5875	91	5975	99	6100	108	6200	—	—	—	—
	20	28	4800	34	4900	40	5025	47	5125	54	5250	61	5350	69	5475	77	5575	85	5700	94	5800	102	5900	111	6025	—	—	—	—
	40	30	4575	36	4700	42	4800	49	4925	56	5050	64	5175	71	5275	80	5400	88	5500	97	5625	106	5750	115	5850	—	—	—	—
	60	31	4350	37	4475	44	4600	51	4725	58	4850	66	4975	74	5100	82	5225	91	5350	100	5450	109	5575	118	5675	—	—	—	—
	80	33	4150	39	4275	46	4400	53	4550	61	4675	69	4800	77	4925	85	5050	94	5175	103	5300	112	5400	121	5525	—	—	—	—
	100	34	3950	41	4075	48	4225	55	4375	63	4500	71	4625	79	4750	88	4875	97	5000	106	5125	115	5250	125	5375	—	—	—	—
1.6	0	29	5150	35	5275	42	5375	49	5500	56	5625	64	5750	72	5875	80	6000	88	6100	97	6225	106	6350	—	—	—	—	—	—
	20	31	4925	37	5050	44	5175	51	5300	58	5425	66	5550	74	5675	82	5800	91	5925	100	6050	109	6175	—	—	—	—	—	—
	40	32	4700	39	4825	45	4950	53	5100	60	5225	68	5375	76	5500	85	5625	94	5750	103	5875	112	6000	—	—	—	—	—	—
	60	34	4500	40	4625	47	4775	55	4900	62	5050	71	5175	79	5325	88	5450	96	5600	106	5725	115	5850	—	—	—	—	—	—
	80	35	4300	42	4425	49	4575	57	4725	65	4875	73	5025	81	5150	90	5300	99	5425	109	5550	118	5700	—	—	—	—	—	—
	100	37	4100	44	4250	51	4400	59	4550	67	4700	75	4850	84	5000	92	5125	102	5275	112	5400	122	5550	—	—	—	—	—	—

TABLE N  
COPPER CONDUCTOR CABLE, 16M STRAND  
SPAN LENGTH (FEET)

CABLE WEIGHT LBS/FT	TEMP (°F)	150		175		200		225		250		275		300		325		350		375		400		425		450		475	
		SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)
1.8	0	15	4900	20	5000	26	5125	32	5275	38	5400	45	5505	52	5675	60	5800	68	5950	76	6075	85	6200	94	6350	103	6475	112	6600
	20	16	4650	21	4775	27	4900	33	5050	40	5175	47	5325	54	5475	62	5600	70	5750	78	5900	87	6025	96	6175	106	6300	115	6425
	40	17	4400	22	4550	28	4675	34	4825	41	5000	48	5125	56	5275	64	5425	72	5575	81	5725	90	5850	99	6000	108	6125	118	6275
	60	18	4175	23	4325	29	4475	36	4625	43	4775	50	4950	58	5100	66	5250	76	5400	83	5550	92	5700	102	5825	111	5975	121	6125
	80	19	3950	24	4100	31	4275	38	4425	45	4600	52	4750	60	4925	68	5075	77	5225	86	5375	95	5525	105	5675	114	5825	124	5975
	100	20	3725	26	3900	32	4075	39	4250	47	4425	54	4575	62	4750	71	4900	79	5075	88	5225	98	5375	107	5525	117	5675	127	5825
2.0	0	16	4950	22	5100	27	5225	34	5375	41	5525	48	5675	55	5825	63	5975	72	6125	80	6275	89	6425	99	6575	108	6700	—	—
	20	17	4725	23	4850	29	5000	35	5175	42	5325	49	5475	57	5625	65	5800	74	5950	83	6100	92	6250	101	6400	111	6550	—	—
	40	18	4475	24	4625	30	4800	36	4950	44	5125	51	5275	59	5450	67	5600	76	5750	85	5925	94	6075	104	6225	114	6375	—	—
	60	19	4250	25	4425	31	4600	38	4775	45	4925	53	5100	61	5275	70	5425	78	5600	88	5750	97	5925	107	6075	117	6225	—	—
	80	20	4025	26	4225	33	4400	40	4575	47	4750	55	4925	63	5100	72	5275	81	5425	90	5600	100	5750	109	5925	119	6075	—	—
	100	21	3825	27	4025	34	4200	41	4400	49	4575	57	4750	65	4925	74	5100	83	5275	93	5450	102	5600	112	5775	122	5925	—	—
2.2	0	17	5025	23	5175	29	5350	36	5500	43	5675	50	5825	58	6000	67	6150	75	6325	84	6475	94	6625	103	6800	113	6950	—	—
	20	18	4800	24	4950	30	5125	37	5300	44	5450	52	5625	60	5800	69	5975	78	6150	87	6300	96	6475	106	6625	116	6775	—	—
	40	19	4575	25	4725	32	4900	39	5100	46	5275	54	5450	62	5625	71	5800	80	5975	89	6125	99	6300	109	6475	119	6625	—	—
	60	20	4350	26	4525	33	4700	40	4900	48	5075	56	5275	64	5450	73	5625	82	5800	91	5975	101	6150	111	6300	122	6475	—	—
	80	21	4125	28	4325	34	4550	42	4725	50	4900	58	5100	66	5275	75	5450	84	5650	94	5825	104	6000	114	6150	124	6325	—	—
	100	22	3925	29	4125	36	4325	43	4525	51	4725	60	4925	68	5125	77	5300	87	5475	96	5675	106	5850	117	6025	127	6175	—	—
2.4	0	18	5100	24	5275	31	5450	38	5625	45	5800	53	5975	61	6150	70	6325	79	6500	88	6675	98	6850	108	7025	—	—		
	20	19	4875	25	5050	32	5225	39	5425	47	5600	55	5775	63	5975	72	6150	81	6325	90	6500	100	6675	110	6850	—	—		
	40	20	4650	26	4825	33	5025	41	5225	48	5400	56	5600	65	5800	74	5975	83	6150	93	6350	103	6525	113	6700	—	—		
	60	21	4425	28	4625	35	4825	42	5025	50	5225	58	5425	67	5625	76	5800	85	6000	95	6175	105	6350	116	6550	—	—		
	80	22	4225	29	4425	36	4650	44	4850	52	5050	60	5250	69	5450	78	5650	88	5850	98	6025	108	6200	118	6400	—	—		
	100	23	4025	30	4250	38	4450	45	4675	54	4900	62	5100	71	5300	80	5500	90	5700	100	5875	110	6075	121	6250	—	—		



TABLE O (Contd)  
 COPPER CONDUCTOR CABLE, 16M STRAND  
 SPAN LENGTH (FEET)

CABLE WEIGHT LBS/FT	TEMP (°F)	100		125		150		175		200		225		250		275		300		325		350		375		400		425		
		SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	
6.0	0	17	5475	25	6100	33	6525	42	6925	52	7350	63	7725	74	8125	85	8500	97	8850	110	9225	—	—	—	—	—	—	—	—	—
	20	17	5475	25	5925	34	6350	43	6775	53	7175	64	7575	75	7975	87	8350	99	8725	112	9075	—	—	—	—	—	—	—	—	—
	40	18	5275	26	5725	35	6175	44	6600	55	7025	65	7425	77	7825	88	8200	101	8575	113	8950	—	—	—	—	—	—	—	—	—
	60	19	5100	27	5550	36	6000	46	6450	56	6850	67	7275	78	7675	90	8050	102	8425	115	8800	—	—	—	—	—	—	—	—	—
	80	20	4900	28	5400	37	5850	47	6300	57	6725	68	7125	79	7525	91	7925	104	8300	117	8675	—	—	—	—	—	—	—	—	—
	100	20	4750	29	5225	38	5700	48	6150	58	6575	69	7000	81	7400	93	7800	106	8175	118	8550	—	—	—	—	—	—	—	—	—
6.5	0	18	5825	26	6250	35	6700	45	7150	55	7600	66	8000	77	8400	89	8800	101	9200	114	9575	—	—	—	—	—	—	—	—	—
	20	19	5600	27	6075	36	6525	46	7000	56	7425	67	7850	79	8250	90	8650	103	9050	116	9450	—	—	—	—	—	—	—	—	—
	40	19	5425	28	5900	37	6375	47	6825	57	7275	68	7700	80	8125	92	8525	105	8925	117	9300	—	—	—	—	—	—	—	—	—
	60	20	5250	28	5725	38	6200	48	6675	58	7125	70	7550	81	7975	94	8375	106	8775	119	9175	—	—	—	—	—	—	—	—	—
	80	21	5050	29	5550	39	6050	49	6525	60	6975	71	7425	83	7825	95	8250	108	8650	121	9050	—	—	—	—	—	—	—	—	—
	100	21	4900	30	5400	40	5900	50	6375	61	6850	72	7275	84	7700	97	8125	109	8525	123	8925	—	—	—	—	—	—	—	—	—
7.0	0	10	5650	27	6450	36	6925	46	7375	57	7850	68	8275	80	8700	92	9125	105	9550	—	—	—	—	—	—	—	—	—	—	—
	20	19	5750	28	6250	37	6750	47	7225	58	7675	69	8125	81	8575	93	9000	106	9400	—	—	—	—	—	—	—	—	—	—	—
	40	20	5575	28	6075	38	6575	48	7075	59	7525	70	7975	82	8425	95	8850	108	9275	—	—	—	—	—	—	—	—	—	—	—
	60	21	5400	29	5925	39	6425	49	6925	60	7375	72	7850	84	8275	96	8725	109	9125	—	—	—	—	—	—	—	—	—	—	—
	80	21	5225	30	5750	40	6275	50	6775	61	7250	73	7700	85	8150	98	8575	111	9000	—	—	—	—	—	—	—	—	—	—	—
	100	22	5050	31	5600	41	6125	51	6625	62	7100	74	7575	86	8025	99	8450	112	8875	—	—	—	—	—	—	—	—	—	—	—
7.5	0	20	6075	28	6600	38	7100	48	7600	59	8075	71	8550	83	9000	95	9425	108	9875	—	—	—	—	—	—	—	—	—	—	—
	20	29	6000	29	6425	39	6925	49	7450	60	7925	72	8400	84	8850	97	9300	110	9725	—	—	—	—	—	—	—	—	—	—	—
	40	21	5750	30	6250	40	6750	50	7275	61	7775	73	8250	85	8700	98	9150	111	9600	—	—	—	—	—	—	—	—	—	—	—
	60	22	5525	31	6075	40	6625	51	7125	62	7650	74	8100	87	8575	100	9025	113	9475	—	—	—	—	—	—	—	—	—	—	—
	80	22	5350	31	5925	41	6475	52	7000	63	7500	75	7975	88	8430	101	8900	114	9325	—	—	—	—	—	—	—	—	—	—	—
	100	23	5200	32	5775	42	6325	53	6850	65	7350	77	7850	89	8300	102	8775	115	9200	—	—	—	—	—	—	—	—	—	—	—



**TABLE P**  
**COPPER CONDUCTOR CABLE, 16M STRAND**  
**SPAN LENGTH (FEET)**

CABLE WEIGHT LBS/FT	TEMP (°F)	100		125		150		175		200		225		250		275	
		SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)	SAG (IN.)	TENS (LBS)
8.0	0	20	6225	29	6750	39	7300	49	7825	60	8325	72	8825	85	9300	98	9750
	20	21	6025	30	6600	40	7125	50	7675	62	8175	73	8675	86	9150	99	9625
	40	22	5850	31	6425	41	6975	51	7525	63	8025	75	8525	87	9000	100	9475
	60	22	5675	31	6275	41	6825	52	7375	64	7875	76	8375	89	8875	102	9350
	80	23	5525	32	6100	42	6675	53	7225	65	7750	77	8250	90	8750	103	9225
	100	24	5350	33	5950	43	6525	54	7075	66	7625	78	8125	91	8625	105	9100
8.5	0	21	6325	30	6900	40	7450	51	8000	62	8525	74	9025	87	9525	—	—
	20	21	6150	31	6725	41	7300	52	7825	63	8375	75	8875	88	9375	—	—
	40	22	5950	31	6550	41	7125	53	7700	64	8225	76	8725	89	9225	—	—
	60	23	5800	32	6400	42	6975	54	7550	65	8075	78	8600	91	9100	—	—
	80	23	5625	33	6250	43	6825	55	7400	66	7950	79	8475	92	8975	—	—
	100	24	5475	34	6100	44	6700	56	7275	68	7800	80	8350	93	8850	—	—

TABLE Q

COPPER CONDUCTOR CABLE, 25M STRAND  
IN-PLACE SAG (INCHES)

CABLE WEIGHT LBS/FT	TEMP (°F)	SPAN LENGTH (FEET)															
		225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600
0.2	0	6	7	9	10	12	14	16	19	21	23	26	29	32	35	38	41
	20	6	8	9	11	13	15	17	19	22	24	27	30	33	36	40	43
	40	6	8	10	11	13	15	18	20	23	25	28	31	35	38	41	45
	60	7	8	10	12	14	16	19	21	24	27	30	33	36	40	43	47
	80	7	9	11	13	15	17	20	22	25	28	31	34	38	41	45	49
	100	7	9	11	13	15	18	20	23	26	29	33	36	40	43	47	51
0.4	0	8	9	11	13	16	18	21	24	27	30	33	37	40	44	48	52
	20	8	10	12	14	16	19	22	25	28	31	34	38	42	46	50	54
	40	8	10	12	15	17	20	23	26	29	32	36	40	44	48	52	57
	60	9	11	13	15	18	21	24	27	30	34	37	41	45	50	54	59
	80	9	11	13	16	19	22	25	28	32	35	39	43	47	52	57	61
	100	9	12	14	17	20	23	26	29	33	37	41	45	50	54	59	64
0.6	0	9	11	14	16	19	22	25	28	32	36	40	44	48	53	58	63
	20	10	12	14	17	20	23	26	30	33	37	41	46	50	55	60	65
	40	10	12	15	18	21	24	27	31	35	39	43	48	52	57	62	67
	60	10	13	15	18	21	25	28	32	36	40	45	49	54	59	65	70
	80	11	13	16	19	22	26	30	34	38	42	47	52	57	62	67	73
	100	11	14	17	20	24	27	31	35	39	44	49	54	59	64	70	76
0.8	0	11	13	16	19	22	26	29	33	37	42	46	51	56	61	67	72
	20	11	14	17	20	23	27	30	35	39	43	48	53	58	63	69	75
	40	12	14	17	21	24	28	32	36	40	45	50	55	60	66	72	77
	60	12	15	18	21	25	29	33	37	42	47	52	57	63	68	74	80
	80	13	16	19	22	26	30	34	39	44	49	54	59	65	71	77	83
	100	13	17	20	24	27	32	36	41	46	51	56	62	68	74	80	85
1.0	0	12	15	18	22	25	29	33	38	42	47	53	58	63	69	75	81
	20	13	16	19	23	26	30	35	39	44	49	54	60	66	72	78	84
	40	13	16	20	23	27	32	36	41	46	51	56	62	68	74	80	87
	60	14	17	21	24	29	33	38	42	48	53	59	64	70	77	83	90
	80	15	18	22	26	30	34	39	44	49	55	61	67	73	79	86	93
	100	15	19	23	27	31	36	41	46	51	57	63	69	76	82	89	96
1.2	0	14	17	21	24	28	33	37	42	47	53	58	64	70	77	83	90
	20	14	18	21	25	30	34	39	44	49	55	60	67	73	79	86	93
	40	15	18	22	26	31	35	40	45	51	57	63	69	75	82	89	96
	60	16	19	23	27	32	37	42	47	53	59	65	71	78	85	92	99
	80	16	20	24	29	33	38	43	49	55	61	67	74	80	87	95	102
	100	17	21	25	30	35	40	45	51	57	63	70	76	83	90	98	105
1.4	0	15	19	23	27	31	36	41	47	52	58	64	71	77	84	91	98
	20	16	20	24	28	33	38	43	48	54	60	66	73	80	87	94	101
	40	17	21	25	29	34	39	44	50	56	62	68	75	82	89	97	104
	60	17	21	26	30	35	40	46	52	58	64	71	78	85	92	100	107
	80	18	22	27	32	37	42	48	54	60	66	73	80	87	95	103	111
	100	19	23	28	33	38	44	50	56	62	69	76	83	90	98	106	114
1.6	0	17	21	25	30	34	39	45	51	57	63	70	76	84	91	98	106
	20	18	22	26	31	36	41	47	52	59	65	72	79	86	93	101	109
	40	18	22	27	32	37	42	48	54	61	67	74	81	89	96	104	112
	60	19	23	28	33	38	44	50	56	63	69	76	84	91	99	107	115
	80	20	24	29	34	40	46	52	58	65	72	79	86	94	102	110	118
	100	21	25	30	36	41	47	54	60	67	74	81	89	97	105	113	122

**TABLE R**  
**COPPER CONDUCTOR CABLE, 25M STRAND**  
**IN-PLACE SAG (INCHES)**

CABLE WEIGHT LBS/FT	TEMP (°F)	SPAN LENGTH (FEET)															
		225	250	275	300	325	350	375	400	425	450	475	500	525	550	575	600
1.8	0	18	23	27	32	37	43	49	55	61	68	75	82	90	97	105	114
	20	19	23	28	33	39	44	50	57	63	70	77	85	92	100	108	117
	40	20	24	29	34	40	46	52	58	65	72	79	87	95	103	111	120
	60	21	25	30	36	41	47	54	60	67	74	82	90	98	106	114	123
	80	22	26	32	37	43	49	56	62	69	77	84	92	100	109	117	126
	100	23	28	33	39	45	51	58	64	72	79	87	95	103	112	120	129
2.0	0	20	24	29	34	40	46	52	59	65	73	80	88	94	104	112	—
	20	21	25	30	36	41	47	54	60	67	75	82	90	98	106	115	—
	40	21	26	31	37	43	49	55	62	69	77	85	92	101	109	118	—
	60	22	27	33	38	44	51	57	64	72	79	87	95	103	112	121	—
	80	23	28	34	40	46	52	59	66	74	82	90	98	106	115	124	—
	100	24	30	35	41	48	54	61	69	76	84	92	101	109	118	127	—
2.2	0	21	26	31	37	43	49	55	62	69	77	85	93	101	109	—	—
	20	22	27	32	38	44	50	57	64	72	79	87	95	104	112	—	—
	40	23	28	33	39	46	52	59	66	74	81	89	98	106	115	—	—
	60	24	29	35	41	47	54	61	68	76	84	92	100	109	118	—	—
	80	25	30	36	42	49	56	63	70	78	86	94	103	112	121	—	—
	100	26	31	37	44	50	57	65	72	80	89	97	106	115	124	—	—
2.4	0	23	28	33	39	45	52	59	66	73	81	89	98	106	—	—	—
	20	24	29	34	40	47	53	60	68	75	83	92	100	109	—	—	—
	40	24	30	36	42	48	55	62	70	78	86	94	103	112	—	—	—
	60	25	31	37	43	50	57	64	72	80	88	97	105	114	—	—	—
	80	26	32	38	45	51	59	66	74	82	90	99	108	117	—	—	—
	100	27	33	40	46	53	61	68	76	84	93	102	111	120	—	—	—

TABLE 5

**COPPER CONDUCTOR CABLE, 25M STRAND  
IN-PLACE SAG (INCHES)**

CABLE WEIGHT LBS/FT	TEMP (°F)	SPAN LENGTH (FEET)															
		150	175	200	225	250	275	300	325	350	375	400	425	450	475	500	525
2.6	0	11	15	19	24	29	35	41	48	55	62	69	77	85	94	102	111
	20	12	16	20	25	30	36	43	49	56	64	71	79	88	96	105	114
	40	12	16	21	26	32	38	44	51	58	65	73	81	90	99	107	117
	60	13	17	22	27	33	39	45	52	60	67	75	84	92	101	110	119
	80	13	18	22	28	34	40	47	54	62	69	77	86	95	104	113	122
	100	14	18	23	29	35	42	49	56	63	71	80	88	97	106	116	125
2.8	0	12	16	20	25	31	37	43	50	57	65	73	81	89	98	107	—
	20	12	16	21	26	32	38	45	52	59	67	75	83	91	100	109	—
	40	13	17	22	27	33	39	46	53	61	69	77	85	94	103	112	—
	60	13	18	23	28	34	41	48	55	63	70	79	87	96	106	115	—
	80	14	18	24	29	36	42	49	57	64	72	81	90	99	108	117	—
	100	14	19	25	31	37	44	51	58	66	75	83	92	101	110	120	—
3.0	0	12	17	22	27	33	39	46	53	60	68	76	84	93	102	111	—
	20	13	17	22	28	34	40	47	54	62	70	78	86	95	104	114	—
	40	13	18	23	29	35	41	48	56	63	72	80	89	98	107	116	—
	60	14	19	24	30	36	43	50	57	65	73	82	91	100	109	119	—
	80	15	19	25	31	37	44	51	59	67	75	84	93	102	112	122	—
	100	15	20	26	32	39	46	53	61	69	78	86	95	105	116	124	—
3.5	0	14	19	25	30	37	43	51	58	67	75	84	93	102	112	—	—
	20	15	20	25	31	38	45	52	60	68	77	86	95	104	114	—	—
	40	15	21	26	32	39	46	53	62	70	79	88	97	107	117	—	—
	60	16	21	27	33	40	47	55	63	72	81	90	100	109	119	—	—
	80	17	22	28	35	41	49	57	65	74	83	92	102	111	122	—	—
	100	17	23	29	36	43	50	58	67	76	85	94	104	114	124	—	—

**TABLE T**  
**COPPER CONDUCTOR CABLE, 25M STRAND**  
**IN-PLACE SAG (INCHES)**

CABLE WEIGHT LBS/FT	TEMP (°F)	SPAN LENGTH (FEET)															
		100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475
4.0	0	7	11	16	21	27	33	40	47	55	64	72	81	91	100	110	—
	20	7	11	16	22	28	34	41	49	57	65	74	83	93	102	113	—
	40	8	12	17	22	28	35	42	50	58	67	76	85	95	105	115	—
	60	8	12	17	23	29	36	44	52	60	68	78	87	97	107	117	—
	80	8	13	18	24	30	37	45	53	61	70	79	89	99	109	120	—
	100	9	13	19	25	31	39	46	54	63	72	81	91	101	111	122	—
4.5	0	8	12	17	23	30	36	44	52	60	68	78	87	97	108	118	—
	20	8	13	18	24	30	37	45	53	61	70	79	89	99	110	121	—
	40	9	13	19	25	31	39	46	54	63	72	81	91	101	112	123	—
	60	9	14	19	26	32	40	47	56	64	73	83	93	103	114	125	—
	80	9	14	20	26	33	41	49	57	66	75	85	95	106	116	127	—
	100	10	15	21	27	35	42	50	59	68	77	87	97	108	119	130	—
5.0	0	9	13	19	25	31	39	47	55	64	73	83	93	103	114	—	—
	20	9	14	19	25	32	40	48	56	65	75	85	95	105	116	—	—
	40	9	14	20	26	33	41	49	58	67	76	86	97	107	118	—	—
	60	10	15	21	27	34	42	50	59	68	78	88	99	109	120	—	—
	80	10	15	21	28	35	43	52	61	70	80	90	100	111	123	—	—
	100	11	16	22	29	36	44	53	62	72	82	92	102	113	125	—	—
5.5	0	9	14	20	27	34	42	50	59	68	78	88	98	109	—	—	—
	20	10	15	21	28	35	43	51	60	69	79	89	100	111	—	—	—
	40	10	15	22	28	36	44	53	62	71	81	91	102	113	—	—	—
	60	11	16	22	29	37	45	54	63	73	83	93	104	115	—	—	—
	80	11	17	23	30	38	46	55	64	74	84	95	106	117	—	—	—
	100	12	17	24	31	39	48	57	66	76	86	97	108	119	—	—	—

**TABLE U**  
**COPPER CONDUCTOR CABLE, 25M STRAND**  
**IN-PLACE SAG (INCHES)**

CABLE WEIGHT LBS/FT	TEMP (°F)	SPAN LENGTH (FEET)															
		100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475
6.0	0	10	15	21	28	36	44	53	62	71	82	92	103	114	—	—	—
	20	10	16	22	29	37	45	54	63	73	83	94	105	116	—	—	—
	40	11	16	23	30	38	46	55	65	74	85	96	107	118	—	—	—
	60	11	17	23	31	39	47	56	66	76	87	97	109	120	—	—	—
	80	12	18	24	32	40	48	58	67	78	88	99	111	122	—	—	—
	100	12	18	25	33	41	50	59	69	79	90	101	113	124	—	—	—
6.5	0	11	16	23	30	38	47	56	65	75	86	97	108	119	—	—	—
	20	11	17	24	31	39	48	57	67	77	87	98	110	121	—	—	—
	40	12	18	24	32	40	49	58	68	78	89	100	112	123	—	—	—
	60	12	18	25	33	41	50	60	70	80	91	102	113	125	—	—	—
	80	13	19	26	34	42	51	61	71	81	92	104	115	127	—	—	—
	100	13	19	27	35	43	53	62	72	83	94	105	117	129	—	—	—
7.0	0	11	17	24	31	40	49	58	68	78	89	101	112	—	—	—	
	20	12	18	25	32	41	50	59	69	80	91	102	114	—	—	—	
	40	12	18	25	33	42	51	60	71	81	92	104	116	—	—	—	
	60	13	19	26	34	43	52	62	72	83	94	106	118	—	—	—	
	80	13	20	27	35	44	53	63	74	84	96	107	120	—	—	—	
	100	14	20	28	36	45	54	64	75	86	97	109	121	—	—	—	
7.5	0	12	18	25	33	42	51	61	71	82	93	105	117	—	—	—	
	20	13	19	26	34	43	52	62	73	83	95	106	118	—	—	—	
	40	13	20	27	35	44	53	63	74	85	96	108	120	—	—	—	
	60	13	20	28	36	45	55	65	75	86	98	110	122	—	—	—	
	80	14	21	28	37	46	56	66	77	88	100	112	124	—	—	—	
	100	14	21	29	38	47	57	67	78	90	101	113	126	—	—	—	

**TABLE V**  
**COPPER CONDUCTOR CABLE, 25M STRAND**  
**IN-PLACE SAG (INCHES)**

CABLE WEIGHT LBS/FT	TEMP (°F)	SPAN LENGTH (FEET)															
		100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475
8.0	0	13	19	26	35	43	53	63	74	85	96	108	—	—	—	—	—
	20	13	20	27	35	44	54	63	75	86	98	110	—	—	—	—	—
	40	14	20	28	36	45	55	65	76	88	99	112	—	—	—	—	—
	60	14	21	29	37	46	56	67	78	89	101	113	—	—	—	—	—
	80	15	22	29	38	47	57	68	79	91	103	115	—	—	—	—	—
	100	15	22	30	39	49	59	69	81	92	104	117	—	—	—	—	—
8.5	0	13	20	27	36	45	54	65	76	87	99	—	—	—	—	—	—
	20	14	20	28	37	46	56	66	77	88	100	—	—	—	—	—	—
	40	14	21	29	37	47	57	67	78	90	102	—	—	—	—	—	—
	60	15	22	30	38	48	58	69	80	91	104	—	—	—	—	—	—
	80	15	22	30	39	49	59	70	81	93	105	—	—	—	—	—	—
	100	16	23	31	40	50	60	71	83	94	107	—	—	—	—	—	—