



v4.0.6

4/4/2025

Southwire Company

Bird Creek - ADSS
AFL, DNA-33072
2332 TO 1525
Ruling Span 288

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}\text{F}$

Area = 0.3948 in², Diameter = 0.709 in, Weight = 0.177 lb/ft, RBS = 30400 lb, MRCL = 19000 lb

Notes =

Limits and Outputs in Average Tensions

Span = 288.00 ft

Special Load Zone

Creep governs the final sag

Loading Limits						Usage
Cond. Temp °F	Ice °C	Wind in	lb/ft ²	K lb/ft	Limit	
0.0	-17.8	0.50G	4.00	0.30	2500 lb*	Initial
0.0	-17.8	0.00	0.00	0.00	33.3 %	Initial
0.0	-17.8	0.00	0.00	0.00	25.0 %	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points						Final		Initial	
Cond. Temp °F	Ice °C	Wind in	lb/ft ²	K lb/ft	Weight lb/ft	Sag ft	Tension lb	Sag ft	Tension lb
0.0	-17.8	0.50G	4.00	0.30	1.390	5.82	2481	5.77	2500*
32.0	0.0	0.50G	0.00	0.00	0.929	4.92	1958	4.83	1995
-20.0	-28.9	0.00	0.00	0.00	0.177	2.40	766	2.12	868
0.0	-17.8	0.00	0.00	0.00	0.177	2.34	783	2.07	887
30.0	-1.1	0.00	0.00	0.00	0.177	2.27	810	2.00	916
60.0	15.6	0.00	0.00	0.00	0.177	2.19	837	1.94	947
90.0	32.2	0.00	0.00	0.00	0.177	2.12	867	1.88	978
120.0	48.9	0.00	0.00	0.00	0.177	2.05	897	1.82	1010
167.0	75.0	0.00	0.00	0.00	0.177	1.94	946	1.73	1063
212.0	100.0	0.00	0.00	0.00	0.177	1.84	996	1.65	1114

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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v4.0.6

2332 to 1525
Decimal Sag

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}\text{F}$

Ruling Span: 288.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 2500 lb

Design: 2500 lb @ 0.0 $^{\circ}\text{F}$, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	887	906	911	916	921	926	931	936	942	947	952	957
Cond. Temp $^{\circ}\text{F}$	0.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
Sag Span	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
274.00	1.87	1.83	1.82	1.81	1.80	1.79	1.78	1.77	1.76	1.75	1.75	1.74
301.00	2.26	2.21	2.20	2.19	2.18	2.16	2.15	2.14	2.13	2.12	2.11	2.09

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v4.0.6

2332 to 1525
3rd Return

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = -8.58×10^{-6} /°F

Ruling Span: 288.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 2500 lb

Design: 2500 lb @ 0.0 °F, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	887	906	911	916	921	926	931	936	942	947	952	957
Cond. Temp °F>	0.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
3rd Wave	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec
Span												
274.00	4.09	4.05	4.04	4.03	4.02	4.00	3.99	3.98	3.97	3.96	3.95	3.94
301.00	4.50	4.45	4.44	4.42	4.41	4.40	4.39	4.38	4.36	4.35	4.34	4.33

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4/4/2025

Southwire Company

Bird Creek - ADSS
AFL, DNA-33072
1425 to 3110
Ruling Span 251

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}\text{F}$ Area = 0.3948 in², Diameter = 0.709 in, Weight = 0.177 lb/ft, RBS = 30400 lb, MRCL = 19000 lb
Notes =

Limits and Outputs in Average Tensions

Span = 251.00 ft

Special Load Zone

Creep governs the final sag

Loading Limits					Limit	Usage
Cond. Temp °F	Temp °C	Ice in	Wind lb/ft ²	K lb/ft		
0.0	-17.8	0.50G	4.00	0.30	2500 lb*	Initial
0.0	-17.8	0.00	0.00	0.00	33.3 %	Initial
0.0	-17.8	0.00	0.00	0.00	25.0 %	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points					Final		Initial		
Cond.	Temp	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
°F	°C	in	lb/ft²	lb/ft	lb/ft	ft	lb	ft	lb
0.0	-17.8	0.50G	4.00	0.30	1.390	4.48	2445	4.38	2500*
32.0	0.0	0.50G	0.00	0.00	0.929	3.69	1985	3.55	2063
-20.0	-28.9	0.00	0.00	0.00	0.177	1.41	987	1.19	1169
0.0	-17.8	0.00	0.00	0.00	0.177	1.38	1011	1.17	1194
30.0	-1.1	0.00	0.00	0.00	0.177	1.33	1049	1.13	1233
60.0	15.6	0.00	0.00	0.00	0.177	1.28	1087	1.10	1272
90.0	32.2	0.00	0.00	0.00	0.177	1.24	1126	1.06	1311
120.0	48.9	0.00	0.00	0.00	0.177	1.20	1166	1.03	1351
167.0	75.0	0.00	0.00	0.00	0.177	1.13	1230	0.99	1414
212.0	100.0	0.00	0.00	0.00	0.177	1.08	1292	0.95	1475

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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v4.0.6

1425 to 3110
Decimal Sag

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}\text{F}$

Ruling Span: 251.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 2500 lb

Design: 2500 lb @ 0.0 $^{\circ}\text{F}$, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	1194	1220	1226	1233	1239	1246	1252	1259	1265	1272	1278	1285
Cond. Temp $^{\circ}\text{F}$ >	0.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
Sag Span	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
206.00	0.79	0.77	0.77	0.76	0.76	0.75	0.75	0.75	0.74	0.74	0.73	0.73
213.00	0.84	0.82	0.82	0.81	0.81	0.81	0.80	0.80	0.79	0.79	0.79	0.78
217.00	0.87	0.85	0.85	0.85	0.84	0.84	0.83	0.83	0.82	0.82	0.82	0.81
328.00	1.99	1.95	1.94	1.93	1.92	1.91	1.90	1.89	1.88	1.87	1.86	1.85

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v4.0.6

1425 to 3110
3rd Return

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = -8.58e-007/'F

Ruling Span:251.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 2500 lb

Design:2500 lb @ 0.0 'F, 0.50 in Ice,4.00 lb/ft² Wind, Initial

H Tens (lb)	1194	1220	1226	1233	1239	1246	1252	1259	1265	1272	1278	1285
Cond. Temp 'F>	0.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
3rd Wave	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
206.00	2.65	2.62	2.62	2.61	2.60	2.60	2.59	2.58	2.58	2.57	2.56	2.56
213.00	2.74	2.71	2.71	2.70	2.69	2.68	2.68	2.67	2.66	2.66	2.65	2.64
217.00	2.79	2.76	2.76	2.75	2.74	2.74	2.73	2.72	2.71	2.71	2.70	2.69
328.00	4.22	4.18	4.17	4.16	4.14	4.13	4.12	4.11	4.10	4.09	4.08	4.07

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4/4/2025

Southwire Company

Bird Creek - ADSS
AFL, DNA-33072
3904 to 4401
Ruling Span 160

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}\text{F}$

Area = 0.3948 in², Diameter = 0.709 in, Weight = 0.177 lb/ft, RBS = 30400 lb, MRCL = 19000 lb
Notes =

Limits and Outputs in Average Tensions

Span = 160.00 ft

Special Load Zone

Creep governs the final sag

Loading Limits					Limit	Usage
Cond.	Temp	Ice	Wind	K		
^o F	^o C	in	lb/ft ²	lb/ft		
0.0	-17.8	0.50G	4.00	0.30	2500 lb*	Initial
0.0	-17.8	0.00	0.00	0.00	33.3 %	Initial
0.0	-17.8	0.00	0.00	0.00	25.0 %	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points					Final		Initial		
Cond.	Temp	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
'F	'C	in	lb/ft ²	lb/ft	lb/ft	ft	lb	ft	lb
0.0	-17.8	0.50G	4.00	0.30	1.390	1.93	2305	1.78	2500*
32.0	0.0	0.50G	0.00	0.00	0.929	1.45	2044	1.30	2283
-20.0	-28.9	0.00	0.00	0.00	0.177	0.36	1575	0.30	1916
0.0	-17.8	0.00	0.00	0.00	0.177	0.35	1606	0.29	1945
30.0	-1.1	0.00	0.00	0.00	0.177	0.34	1652	0.28	1989
60.0	15.6	0.00	0.00	0.00	0.177	0.33	1699	0.28	2033
90.0	32.2	0.00	0.00	0.00	0.177	0.32	1746	0.27	2077
120.0	48.9	0.00	0.00	0.00	0.177	0.32	1793	0.27	2121
167.0	75.0	0.00	0.00	0.00	0.177	0.30	1867	0.26	2190
212.0	100.0	0.00	0.00	0.00	0.177	0.29	1937	0.25	2256

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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v4.0.6

3904 to 4401
Decimal Sag

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = -8.58×10^{-6} /°F

Ruling Span: 160.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 2500 lb

Design: 2500 lb @ 0.0 °F, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	1945	1974	1981	1989	1996	2003	2011	2018	2025	2033	2040	2047
Cond. Temp °F>	0.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
Sag Span	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
155.00	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26
165.00	0.31	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.29

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v4.0.6

3904 to 4401
3rd Return

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}\text{F}$

Ruling Span: 160.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 2500 lb

Design: 2500 lb @ 0.0 $^{\circ}\text{F}$, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	1945	1974	1981	1989	1996	2003	2011	2018	2025	2033	2040	2047
Cond. Temp $^{\circ}\text{F}$ >	0.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
3rd Wave	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec
Span												
155.00	1.56	1.55	1.55	1.55	1.54	1.54	1.54	1.53	1.53	1.53	1.53	1.52
165.00	1.66	1.65	1.65	1.65	1.64	1.64	1.64	1.63	1.63	1.63	1.63	1.62

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v4.0.6

4/4/2025

Southwire Company

Bird Creek - ADSS
AFL, DNA-33072
4401 to 5111
Ruling Span 244

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}\text{F}$ Area = 0.3948 in², Diameter = 0.709 in, Weight = 0.177 lb/ft, RBS = 30400 lb, MRCL = 19000 lb
Notes =

Limits and Outputs in Average Tensions

Span = 244.00 ft

Special Load Zone

Creep governs the final sag

Loading Limits					Limit	Usage
Cond. Temp °F	°C	Ice in	Wind lb/ft ²	K lb/ft		
0.0	-17.8	0.50G	4.00	0.30	2500 lb*	Initial
0.0	-17.8	0.00	0.00	0.00	33.3 %	Initial
0.0	-17.8	0.00	0.00	0.00	25.0 %	Final
60.0	15.6	0.00	0.00	0.00		Creep

Design Points					Final			Initial	
Cond. Temp		Ice	Wind	K	Weight	Sag	Tension	Sag	Tension
'F	'C	in	lb/ft²	lb/ft	lb/ft	ft	lb	ft	lb
0.0	-17.8	0.50G	4.00	0.30	1.390	4.25	2437	4.14	2500*
32.0	0.0	0.50G	0.00	0.00	0.929	3.48	1990	3.33	2078
-20.0	-28.9	0.00	0.00	0.00	0.177	1.27	1033	1.07	1231
0.0	-17.8	0.00	0.00	0.00	0.177	1.24	1059	1.05	1257
30.0	-1.1	0.00	0.00	0.00	0.177	1.20	1098	1.02	1297
60.0	15.6	0.00	0.00	0.00	0.177	1.16	1138	0.99	1337
90.0	32.2	0.00	0.00	0.00	0.177	1.12	1178	0.96	1377
120.0	48.9	0.00	0.00	0.00	0.177	1.08	1219	0.93	1417
167.0	75.0	0.00	0.00	0.00	0.177	1.03	1285	0.89	1481
212.0	100.0	0.00	0.00	0.00	0.177	0.98	1349	0.85	1543

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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v4.0.6

4401 to 5111
Decimal Sag

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}\text{F}$

Ruling Span: 244.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 2500 lb

Design: 2500 lb @ 0.0 $^{\circ}\text{F}$, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	1257	1283	1290	1297	1303	1310	1317	1323	1330	1336	1343	1350
Cond. Temp $^{\circ}\text{F}$ >	0.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
Sag Span	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
110.00	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20
132.00	0.31	0.30	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.29	0.29	0.29
163.00	0.47	0.46	0.46	0.45	0.45	0.45	0.45	0.44	0.44	0.44	0.44	0.44
231.00	0.94	0.92	0.92	0.91	0.91	0.90	0.90	0.89	0.89	0.88	0.88	0.87

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v4.0.6

4401 to 5111
3rd Return

Conductor: ADSS Cable, Moduli = 4381/3651/4725 kpsi, Thermal Coef of Expansion = $-8.58e-007/^{\circ}F$

Ruling Span: 244.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 2500 lb

Design: 2500 lb @ 0.0 $^{\circ}F$, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	1257	1283	1290	1297	1303	1310	1317	1323	1330	1336	1343	1350
Cond. Temp $^{\circ}F$ >	0.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0
3rd Wave	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec	Sec
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
110.00	1.38	1.37	1.36	1.36	1.36	1.35	1.35	1.35	1.34	1.34	1.34	1.33
132.00	1.66	1.64	1.63	1.63	1.63	1.62	1.62	1.61	1.61	1.61	1.60	1.60
163.00	2.05	2.02	2.02	2.01	2.01	2.00	2.00	1.99	1.99	1.98	1.98	1.97
231.00	2.90	2.87	2.86	2.85	2.85	2.84	2.83	2.83	2.82	2.81	2.80	2.80

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