



v4.0.6

3/4/2025

Southwire Company

NEW #2 ACSR
Between 2332 and 1525
Ruling Span 288'

Conductor: #2 AWG 7/1 ACSR "Sparate"

Area = 0.0654 in², Diameter = 0.325 in, Weight = 0.107 lb/ft, RBS = 3640 lb

Notes =

Stress-strain data from Chart No. 1-670

Chart Notes: Type 25 ACSR (7/1). Contact your conductor manufacturer to verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 288.00 ft

Special Load Zone

Loading conditions govern the final sag

Loading Limits

Cond. Temp °F	Ice °C	Wind lb/ft ²	K lb/ft	Limit	Usage
0.0	-17.8	0.50G	4.00	0.30	45.0 %* 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

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	1.061	6.73	1638	6.73	1638*
32.0	0.0	0.50G	0.00	0.00	0.620	5.88	1095	5.39	1194
-20.0	-28.9	0.00	0.00	0.00	0.107	1.65	671	1.19	932
0.0	-17.8	0.00	0.00	0.00	0.107	2.03	546	1.36	818
30.0	-1.1	0.00	0.00	0.00	0.107	2.78	399	1.72	644
60.0	15.6	0.00	0.00	0.00	0.107	3.65	304	2.30	482
90.0	32.2	0.00	0.00	0.00	0.107	4.29	259	3.10	358
120.0	48.9	0.00	0.00	0.00	0.107	4.74	234	3.99	278
167.0	75.0	0.00	0.00	0.00	0.107	5.43	205	5.15	215
212.0	100.0	0.00	0.00	0.00	0.107	6.06	183	5.80	192

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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2332 to 1525
Decimal Sag

Conductor: #2 AWG 7/1 ACSR "Sparate"

Ruling Span: 288.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 1638 lb

Design: 45.0 % Ult. @ 0.0 °F, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	818	702	673	644	615	587	560	533	507	482	458	435
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	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Span												
274.00	1.23	1.43	1.49	1.56	1.63	1.71	1.79	1.88	1.98	2.08	2.19	2.31
301.00	1.48	1.73	1.80	1.88	1.97	2.06	2.17	2.27	2.39	2.51	2.65	2.78

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2332 to 1525
3rd Return

Conductor: #2 AWG 7/1 ACSR "Sparate"

Ruling Span: 288.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 1638 lb

Design: 45.0 % Ult. @ 0.0 °F, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	818	702	673	644	615	587	560	533	507	482	458	435
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	3.31	3.58	3.65	3.73	3.82	3.91	4.01	4.11	4.21	4.32	4.43	4.54
301.00	3.64	3.93	4.01	4.10	4.20	4.30	4.40	4.51	4.62	4.74	4.87	4.99

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3/4/2025

Southwire Company

Bird Creek -New 1/0 ACSR - Primary
Between Poles 0928 to 2218
Ruling Span 252'

Conductor: #1/0 AWG 6/1 ACSR "Raven"

Area = 0.0967 in², Diameter = 0.398 in, Weight = 0.145 lb/ft, RBS = 4370 lb

Notes =

Stress-strain data from Chart No. 1-938

Chart Notes: Type 17 ACSR (6/1), #1 AWG and larger. Contact your conductor manufacturer to verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 252.00 ft

Special Load Zone

Loading conditions govern the final sag

Loading Limits

Cond.	Temp	Ice	Wind	K	Limit	Usage
°F	°C	in	lb/ft ²	lb/ft		
0.0	-17.8	0.50G	4.00	0.30	50.0 %	Initial
0.0	-17.8	0.00	0.00	0.00	33.3 %	Initial
0.0	-17.8	0.00	0.00	0.00	23.0 %*	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
°F	°C	in	lb/ft ²	lb/ft	lb/ft	ft	lb	ft
0.0	-17.8	0.50G	4.00	0.30	1.144	4.67	1948	4.67
32.0	0.0	0.50G	0.00	0.00	0.703	4.12	1357	3.71
-20.0	-28.9	0.00	0.00	0.00	0.145	0.95	1217	0.78
0.0	-17.8	0.00	0.00	0.00	0.145	1.15	1005*	0.87
30.0	-1.1	0.00	0.00	0.00	0.145	1.61	717	1.03
60.0	15.6	0.00	0.00	0.00	0.145	2.31	498	1.29
90.0	32.2	0.00	0.00	0.00	0.145	3.02	381	1.70
120.0	48.9	0.00	0.00	0.00	0.145	3.37	342	2.32
167.0	75.0	0.00	0.00	0.00	0.145	3.93	293	3.54
212.0	100.0	0.00	0.00	0.00	0.145	4.49	257	4.29

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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v4.0.6

Primary 0928 to 2218
Decimal Sag

Conductor: #1/0 AWG 6/1 ACSR "Raven"

Ruling Span: 252.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 1948 lb

Design: 23.0 % Ult. @ 0.0 °F, 0.00 in Ice, 0.00 lb/ft² Wind, Final

H Tens (lb)	1331	1187	1151	1114	1077	1040	1003	966	929	892	855	818
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
135.00	0.25	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.36	0.37	0.39	0.40
202.00	0.56	0.62	0.64	0.66	0.69	0.71	0.74	0.77	0.80	0.83	0.87	0.90
213.00	0.62	0.69	0.71	0.74	0.76	0.79	0.82	0.85	0.89	0.92	0.96	1.01
328.00	1.47	1.64	1.69	1.75	1.81	1.87	1.94	2.02	2.10	2.19	2.28	2.38

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Neutral 0928 to 2218
3rd Return

Conductor: #1/0 AWG 6/1 ACSR "Raven"

Ruling Span: 252.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 1948 lb

Design: 23.0 % Ult. @ 0.0 °F, 0.00 in Ice, 0.00 lb/ft² Wind, Final

H Tens (lb)	1331	1187	1151	1114	1077	1040	1003	966	929	892	855	818
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	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
135.00	1.49	1.58	1.60	1.63	1.66	1.69	1.72	1.75	1.78	1.82	1.86	1.90
202.00	2.23	2.36	2.40	2.44	2.48	2.52	2.57	2.62	2.67	2.72	2.78	2.84
213.00	2.35	2.49	2.53	2.57	2.61	2.66	2.71	2.76	2.81	2.87	2.93	3.00
328.00	3.62	3.83	3.89	3.96	4.02	4.09	4.17	4.25	4.33	4.42	4.52	4.62

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3/4/2025

Southwire Company

Bird Creek -New #2 ACSR-Neutral
Between Poles 0928 to 2218
Ruling Span 252'

Conductor: #2 AWG 7/1 ACSR "Sparate"

Area = 0.0654 in², Diameter = 0.325 in, Weight = 0.107 lb/ft, RBS = 3640 lb

Notes =

Stress-strain data from Chart No. 1-670

Chart Notes: Type 25 ACSR (7/1). Contact your conductor manufacturer to verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 252.00 ft

Special Load Zone

Loading conditions govern the final sag

Loading Limits

Cond.	Temp	Ice	Wind	K	Limit	Usage
°F	°C	in	lb/ft ²	lb/ft		
0.0	-17.8	0.50G	4.00	0.30	1540 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

Cond.	Temp	Ice	Wind	K	Weight	Sag	Final	Initial	
°F	°C	in	lb/ft ²	lb/ft	lb/ft	ft	Tension	Sag	Tension
							lb	ft	lb
0.0	-17.8	0.50G	4.00	0.30	1.061	5.48	1540	5.48	1540*
32.0	0.0	0.50G	0.00	0.00	0.620	4.78	1031	4.40	1120
-20.0	-28.9	0.00	0.00	0.00	0.107	1.20	711	0.91	929
0.0	-17.8	0.00	0.00	0.00	0.107	1.48	575	1.05	812
30.0	-1.1	0.00	0.00	0.00	0.107	2.09	407	1.34	633
60.0	15.6	0.00	0.00	0.00	0.107	2.86	297	1.84	463
90.0	32.2	0.00	0.00	0.00	0.107	3.52	241	2.56	332
120.0	48.9	0.00	0.00	0.00	0.107	3.93	216	3.37	252
167.0	75.0	0.00	0.00	0.00	0.107	4.56	187	4.35	195
212.0	100.0	0.00	0.00	0.00	0.107	5.14	166	4.94	172

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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Neutral 0928 to 2218
Decimal Sag

Conductor: #2 AWG 7/1 ACSR "Sparate"

Ruling Span: 252.00 ft Stringing Sag Table Using Initial Sag
Special Load Zone Max Tension = 1540 lb

Design: 1540 lb @ 0.0 °F, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	812	693	663	633	603	574	545	517	489	463	437	414
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	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Span	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
135.00	0.30	0.35	0.37	0.39	0.40	0.42	0.45	0.47	0.50	0.53	0.56	0.59
202.00	0.67	0.79	0.82	0.86	0.91	0.95	1.00	1.06	1.12	1.18	1.25	1.32
213.00	0.75	0.88	0.92	0.96	1.01	1.06	1.11	1.17	1.24	1.31	1.39	1.47
328.00	1.77	2.08	2.17	2.27	2.39	2.51	2.64	2.79	2.94	3.11	3.29	3.48

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Neutral 0928 to 2218
3rd Return

Conductor: #2 AWG 7/1 ACSR "Sparate"

Ruling Span: 252.00 ft Stringing Sag Table Using Initial Sag
Special Load Zone Max Tension = 1540 lb

Design: 1540 lb @ 0.0 °F, 0.50 in Ice, 4.00 lb/ft² Wind, Initial

H Tens (lb)	812	693	663	633	603	574	545	517	489	463	437	414
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	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
135.00	1.64	1.77	1.81	1.86	1.90	1.95	2.00	2.05	2.11	2.17	2.23	2.30
202.00	2.45	2.65	2.71	2.78	2.85	2.92	2.99	3.07	3.16	3.25	3.34	3.44
213.00	2.58	2.80	2.86	2.93	3.00	3.08	3.16	3.24	3.33	3.42	3.52	3.62
328.00	3.98	4.31	4.41	4.51	4.62	4.74	4.86	4.99	5.13	5.27	5.42	5.58

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3/4/2025

Southwire Company

NEW #2 ACSR
Between 4401 and 4706
Ruling Span 201'

Conductor: #2 AWG 7/1 ACSR "Sparate"

Area = 0.0654 in², Diameter = 0.325 in, Weight = 0.107 lb/ft, RBS = 3640 lb

Notes =

Stress-strain data from Chart No. 1-670

Chart Notes: Type 25 ACSR (7/1). Contact your conductor manufacturer to verify stress-strain coefficients.

Limits and Outputs in Average Tensions

Span = 201.00 ft

Special Load Zone

Loading conditions govern the final sag

Loading Limits

Cond. Temp °F	Ice °C	Wind lb/ft ²	K lb/ft	Limit	Usage
0.0	-17.8	0.50G	4.00	45.0 %	Initial
0.0	-17.8	0.00	0.00	33.3 %	Initial
0.0	-17.8	0.00	0.00	25.0 %*	Final
60.0	15.6	0.00	0.00		Creep

Design Points

Cond. Temp °F	Ice °C	Wind lb/ft ²	K lb/ft	Weight lb/ft	Sag ft	Final Tension lb	Sag ft	Initial Tension lb
0.0	-17.8	0.50G	4.00	0.30	1.061	3.47	1547	1547
32.0	0.0	0.50G	0.00	0.00	0.620	2.89	1086	1195
-20.0	-28.9	0.00	0.00	0.00	0.107	0.51	1067	1211
0.0	-17.8	0.00	0.00	0.00	0.107	0.59	910*	1104
30.0	-1.1	0.00	0.00	0.00	0.107	0.79	682	931
60.0	15.6	0.00	0.00	0.00	0.107	1.14	475	744
90.0	32.2	0.00	0.00	0.00	0.107	1.70	319	549
120.0	48.9	0.00	0.00	0.00	0.107	2.08	260	372
167.0	75.0	0.00	0.00	0.00	0.107	2.61	207	223
212.0	100.0	0.00	0.00	0.00	0.107	3.13	173	183

* Design Condition

G Glazed Ice Density of 57.0 lb/ft³

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4401 to 4706
Decimal Sag

Conductor: #2 AWG 7/1 ACSR "Sparate"

Ruling Span: 201.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 1547 lb

Design: 25.0 % Ult. @ 0.0 °F, 0.00 in Ice, 0.00 lb/ft² Wind, Final

H Tens (lb)	1104	991	961	931	901	870	839	808	776	744	711	679
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	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Span												
133.00	0.21	0.24	0.25	0.25	0.26	0.27	0.28	0.29	0.30	0.32	0.33	0.35
231.00	0.65	0.72	0.74	0.77	0.79	0.82	0.85	0.88	0.92	0.96	1.00	1.05

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4401 to 4706
3rd Return

Conductor: #2 AWG 7/1 ACSR "Sparate"

Ruling Span: 201.00 ft
Special Load Zone

Stringing Sag Table Using Initial Sag
Max Tension = 1547 lb

Design: 25.0 % Ult. @ 0.0 °F, 0.00 in Ice, 0.00 lb/ft² Wind, Final

H Tens (lb)	1104	991	961	931	901	870	839	808	776	744	711	679
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												
133.00	1.38	1.46	1.48	1.51	1.53	1.56	1.59	1.62	1.65	1.69	1.72	1.77
231.00	2.40	2.54	2.58	2.62	2.66	2.71	2.76	2.81	2.87	2.93	3.00	3.07

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