Jumper Cable

CONSTRUCTION AT A GLANCE

CONDUCTOR TYPE (1)
ACSR
AAC
1350-O TEMPER

APPLICATIONS

- Used as uninsulated jumpers in electrical and substation construction
- ACSR and AAC
  - Suitable for overhead transmission and distribution applications
- 1350-O Aluminum
  - Suitable for use in applications where high flexibility and conductivity are required

CONSTRUCTION DETAILS

- ACSR Conductors
  - 1350-H19 aluminum concentrically stranded about a steel core
  - Core wires are coated with a Class A galvanizing
- AAC Conductors
  - 1350-H19 aluminum concentrically stranded
- 1350-O Aluminum Rope Lay Conductors
  - Fully annealed (O-temper) Aluminum Rope Lay Stranded

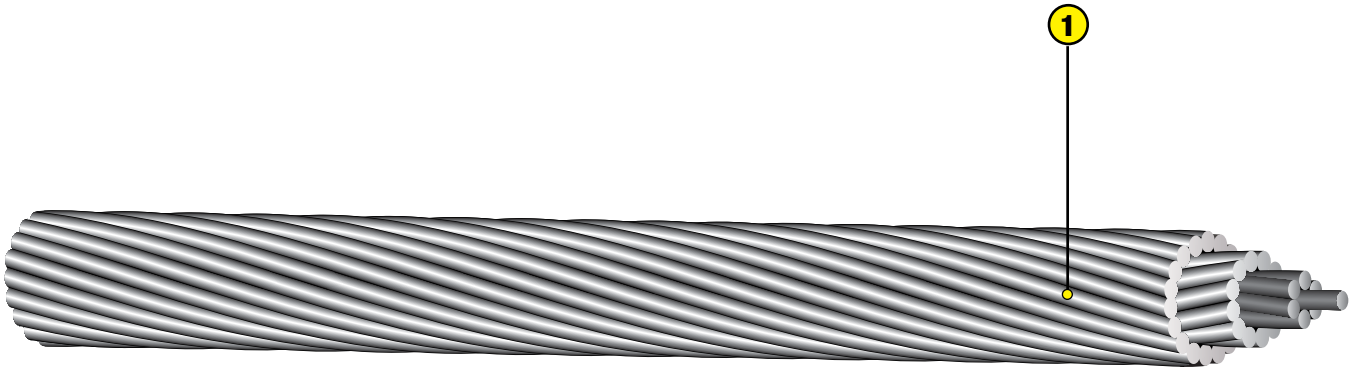
SPECIFICATIONS

Southwire's Jumper Cable meet or exceed the following applicable ASTM specifications:

- **B 230:** Aluminum Wire, 1350-H19 for Electrical Purposes
- **B 231:** Aluminum Conductors, Concentric Lay Stranded
- **B 232:** Aluminum Conductors, Concentric Lay Stranded, Coated Steel Reinforced (ACSR)
- **B 498:** Zinc-Coated Steel Core Wire for Aluminum Conductors, Steel Reinforced (ACSR)
- **B 609:** 1350 Round Wire – Annealed and Intermediate Tempers

OPTIONS

- Steel Core Wire Coatings – Aluminum-clad (AW) or Zinc 5% Aluminum Mischmetal (MA)
- Non-specular
- Other Sizes Available upon Request



ACSR

Code Word	Size (kcmil)	Stranding (AL/ST)	Diameter (inches)				Weight (lbs/1000 ft)			Content (%)		Rated Strength (lbs)	Resistance		Allowable Ampacity+
			Individual Wire		Steel Core	Complete Cable	AL	ST	Total	AL	ST		R_{dc} @ 20°C (Ω/1000 ft)	R_{dc} @ 75°C (Ω/1000 ft)	
			AL	ST											
Raven	1/0	6/1	0.1327	0.1327	0.1327	0.398	99	47	145	67.89	32.11	4380	0.159	0.217	242
Waxwing	266.8	18/1	0.1217	0.1217	0.1217	0.609	250	39	289	86.43	13.57	6880	0.0643	0.0787	449
Partridge	266.8	26/7	0.1013	0.0788	0.2363	0.642	251	115	367	68.51	31.49	11300	0.0637	0.0779	475
Linnet	336.4	26/7	0.1137	0.0885	0.2654	0.720	317	146	462	68.51	31.49	14100	0.0505	0.0618	529
Chickadee	397.5	18/1	0.1486	0.1486	0.1486	0.743	373	58	431	86.43	13.57	9940	0.0432	0.0529	576
Hawk	477.0	26/7	0.1354	0.1053	0.316	0.858	449	207	656	68.51	31.49	19500	0.0356	0.436	659
Drake	795.0	26/7	0.1749	0.1360	0.4080	1.108	750	344	1093	68.53	31.47	31500	0.0214	0.0263	907
Curlew	1033.5	54/7	0.1383	0.1383	0.415	1.245	973	356	1330	73.21	26.79	36600	0.0165	0.0211	1047
Bluejay	1113.0	45/7	0.1573	0.1049	0.3147	1.259	1050	205	1254	83.69	16.31	29800	0.0155	0.0194	1092
Bunting	1192.5	45/7	0.1628	0.1085	0.3256	1.302	1123	219	1343	83.67	16.33	32000	0.0144	0.0182	1139
Bittern	1272.0	45/7	0.1681	0.1121	0.3363	1.345	1200	234	1432	83.69	16.31	34100	0.0135	0.0171	1184
Dipper	1351.5	45/7	0.1733	0.1155	0.3466	1.386	1273	248	1521	83.67	16.33	36200	0.0127	0.0162	1229
Lapwing	1590.5	45/7	0.1880	0.1253	0.3759	1.504	1500	292	1790	83.69	16.31	42200	0.0108	0.0139	1354
Falcon	1590.0	54/19	0.1716	0.103	0.5148	1.544	1505	536	2041	73.72	26.28	54500	0.0108	0.0140	1359
Bluebird	2156.0	84/19	0.1602	0.0961	0.4805	1.762	2044	468	2508	81.3	18.7	60300	0.00801	0.0105	1623

AAC

Code Word	Size (kcmil)	Stranding		Diameter (inches)		Cross-Sectional Area (in^2)	Weight (lbs/1000 ft)	Rated Strength (lbs)	Resistance		Allowable Ampacity+
		No. of Wires	Class	Individual Wire	Complete Cable				R_{dc} @ 20°C (Ω/1000 ft)	R_{dc} @ 75°C (Ω/1000 ft)	
Tulip	336	19	A	0.1331	0.666	0.2642	316	6150	0.0514	0.0630	513
Cosmos	477	19	AA	0.1584	0.792	0.3744	447	8360	0.0362	0.0445	639
Dahlia	556.6	19	AA	0.1711	0.856	0.4371	521	9750	0.0311	0.0382	703
Violet	715.5	37	AA	0.1391	0.974	0.5620	671	12800	0.0242	0.0299	823
Arbutus	795	37	AA	0.1466	1.026	0.6244	745	13900	0.0217	0.0270	878
Magnolia	954	37	AA	0.1606	1.124	0.7493	895	16400	0.0181	0.0226	982
Marigold	1113	61	AA,A	0.1351	1.216	0.8742	1044	19700	0.0155	0.0195	1079
Narcissus	1272	61	AA,A	0.1444	1.300	0.9990	1192	22000	0.0136	0.0173	1169
Coreopsis	1590	61	AA	0.1614	1.454	1.249	1489	27000	0.0109	0.0141	1333
Jewelweed	2000	61	AA	0.1810	1.630	1.571	1875	33900	0.0086	0.0115	1518
Cowslip	2000	91	A	0.1482	1.630	1.571	1873	34200	0.0086	0.0115	1518
Pigweed	2300	61	AA	0.1941	1.748	1.806	2177	39000	0.0075	0.0103	1638
Lupine	2500	91	A	0.1657	1.823	1.962	2365	41900	0.0070	0.0097	1706

+Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 2 ft/sec., in sun.
Dimensions and weights shown above are nominal and subject to industry tolerances

1350-O ALUMINUM ROPE LAY CONDUCTORS

Conductor	Stranding	Conductor Diameter	Ampacity Rating at 30°C	Ampacity Rating at 40°C	Weight (lbs/1000 ft)
1272	37 x 7	1.474	940	1075	1225

*Other sizes available upon request.
Dimensions and weights shown above are nominal and subject to industry tolerances