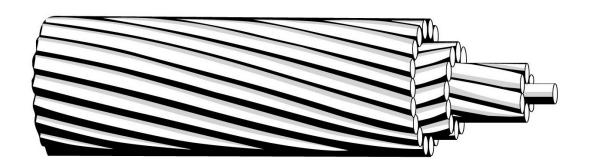# AAC

All Aluminum Conductor. Bare.

APPLICATIONS

Classes [1] AA and A are used primarily for overhead transmission and primary and secondary distribution, where ampacity must be maintained and a lighter conductor (compared to ACSR) is desired, and when conductor strength is not a critical factor. Classes B and C are used primarily as bus, apparatus connectors and jumpers, where additional flexibility is required.

SPECIFICATIONS

Southwire's AAC bare conductor meets or exceeds the following ASTM specifications:

- B230 Aluminum 1350-H19 Wire for Electrical Purposes.
- B231 Concentric-Lay-Stranded Aluminum 1350 Conductors.

CONSTRUCTION

Aluminum 1350-H19 wires, concentrically stranded.

[1] Classes refer to stranding and are an indication of relative conductor flexibility, AA being the least flexible, C the most flexible.

Southwire
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Carrollton, Ga. 30119 USA

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AAC

Code Word	Size (AWG or kcmil)	Stranding		Diameter (ins.)		Cross-Sectional Area (Sq. ins.)	Weight Per 1000 ft. (lbs.)	Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)
		No. of Wires	Class	Individual Wires	Complete Cable				DC @ 20°C	AC @ 75°C	
Peachbell	6	7	A	.0612	.184	.0206	25	563	.658	.805	103
Rose	4	7	A	.0772	.232	.0328	39	881	.414	.506	138
Iris	2	7	AA, A	.0974	.292	.0522	62	1350	.260	.318	185
Pansy	1	7	AA	.1093	.328	.0657	78	1640	.207	.252	214
Poppy	1/0	7	AA, A	.1228	.368	.0829	99	1990	.164	.200	247
Aster	2/0	7	AA, A	.1379	.414	.1045	125	2510	.130	.159	286
Phlox	3/0	7	AA, A	.1548	.464	.1317	157	3040	.103	.126	331
Oxlip	4/0	7	AA, A	.1739	.522	.1663	198	3830	.0817	.0999	383
Sneezewort	250	7	AA	.189	.567	.1964	234	4520	.0691	.0846	425
Valerian	250	19	A	.1147	.574	.1963	234	4660	.0691	.0846	426
Daisy	266.8	7	AA	.1952	.586	.2095	250	4830	.0648	.0793	443
Laurel	266.8	19	A	.1185	.592	.2095	250	4970	.0648	.0793	444
Peony	300	19	A	.1257	.628	.2358	281	5480	.0576	.0706	478
Tulip	336.4	19	A	.1331	.665	.2644	315	6150	.0514	.0630	513
Daffodil	350	19	A	.1357	.679	.2748	328	6390	.0494	.0605	526
Canna	397.5	19	AA, A	.1446	.723	.312	373	7110	.0435	.0534	570
Goldentuft	450	19	AA	.1539	.769	.3534	422	7890	.0384	.0472	616
Cosmos	477	19	AA	.1584	.792	.3744	447	8360	.0362	.0445	639
Syringa	477.0	37	A	.1135	.795	.3744	447	8690	.0362	.0445	639
Zinnia	500	19	AA	.1622	.811	.3926	469	8760	.0346	.0425	658
Hyacinth	500	37	AA	.1162	.814	.3924	469	9110	.0346	.0425	658
Dahlia	556.5	19	AA	.1711	.856	.4369	522	9750	.0311	.0382	703
Mistletoe	556.5	37	AA	.1226	.858	.4368	522	9940	.0311	.0382	704
Meadowsweet	600	37	AA	.1273	.891	.4709	562	10700	.0228	.0355	738
Orchid	636.0	37	AA, A	.1311	.918	.4995	596	11400	.0272	.0335	765
Heuchera	650	37	AA	.1325	.928	.5102	609	11600	.0266	.0328	775
Verbena	700	37	AA	.1375	.963	.5494	656	12500	.0247	.0305	812
Flag	700	61	A	.1071	.964	.5495	656	12900	.0247	.0305	812
Violet	715.5	37	AA	.1391	.973	.5623	671	12800	.0242	.0299	823
Nasturtium	715.5	61	AA	.1083	.975	.5619	671	13100	.0242	.0299	823
Petunia	750.0	37	AA	.1424	.997	.5893	703	13100	.0230	.0286	847
Cattail	750	61	AA	.1109	.998	.5892	703	13500	.0230	.0286	847
Arbutus	795	37	AA	.1466	1.026	.6245	745	13900	.0217	.0270	878
Lilac	795.0	61	A	.1142	1.027	.6248	745	14300	.0217	.0270	879
Cockscomb	900	37	AA	.156	1.092	.7072	844	15400	.0192	.0239	948
Snapdragon	900	61	AA	.1215	1.093	.7072	844	15900	.0192	.0239	948
Magnolia	954.0	37	AA	.1606	1.124	.7495	894	16400	.0181	.0226	982

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Goldenrod	954.0	61	A	.1251	1.125	.7498	894	16900	.0181	.0226	983
Hawkweed	1000	37	AA	.1644	1.151	.7854	937	17200	.0173	.0216	1010
Camellia	1000	61	AA	.128	1.152	.7849	937	17700	.0713	.0216	1011
Bluebell	1033.5	37	AA	.1671	1.17	.8114	969	17700	.0167	.0210	1031
Larkspur	1033.5	61	AA	.1302	1.171	.8122	969	18300	.0167	.0210	1032
Marigold	1113.0	61	AA, A	.1351	1.216	.8744	1043	19700	.0155	.0195	1079
Hawthorn	1192.5	61	AA, A	.1398	1.258	.9363	1118	21100	.0145	.0183	1124
Narcissus	1272.0	61	AA, A	.1444	1.3	.999	1192	22000	.0136	.0173	1169
Columbine	1351.5	61	AA, A	.1488	1.34	1.0608	1267	23400	.0128	.0163	1212
Carnation	1431	61	AA, A	.1532	1.378	1.1244	1341	24300	.0121	.0155	1253
Gladiolus	1510.5	61	A	.1574	1.416	1.1869	1416	25600	.0144	.0147	1294
Coreopsis	1590.0	61	AA	.1614	1.453	1.248	1490	27000	.0109	.0141	1333
Jessamine	1750.0	61	AA	.1694	1.524	1.3748	1640	29700	.00988	.0129	1408
Cowslip	2000.0	91	A	.1482	1.631	1.5697	1875	34200	.00864	.0115	1518
Sagebrush	2250	91	A	.1572	1.73	1.7662	2130	37500	.00776	.0105	1612
Lupine	2500.0	91	A	.1657	1.823	1.9623	2366	41900	.00698	.00969	1706
Bitterroot	2750	91	A	.1738	1.912	2.1589	2603	46100	.00635	.00900	1793
Trillium	3000	127	A	.1537	1.998	2.3564	2839	50300	.00582	.00834	1874
Bluebonnet	3500	127	A	.166	2.158	2.7486	3345	58700	.00499	.00756	2024

+Conductor temperature of 75ºC, ambient temperature 25ºC, emissivity 0.5, wind 2 ft./sec. in sun.