



AAC -- ALUMINUM ALLOY CONDUCTOR



APPLICATIONS

Bare AAC conductors are intended for use as overhead primary or secondary distribution conductor. Since these conductors are all aluminum, they are designed for shorter spans and lower tensions. For longer spans or higher tension applications, consider ACSR or similar higher strength conductors.

CONSTRUCTION

Aluminum alloy 1350-H19 wires concentrically stranded.

STANDARDS

These conductors are manufactured and tested to meet or exceed the following standards:

- ASTM B230 – Aluminum 1350-H19 Wire for Electrical Purposes
- ASTM B231 – Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B400 – Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors

Code Word	Size (AWG or kcmil)	Stranding	Class	Wire Diameter (in)	Overall Diameter (in)	Cross-Sectional Area (sq in)	Weight (lb/1000 ft)	Rated Strength (lbf)	DC Resistance @ 20 deg C (ohm/1000ft)	Ampacity (A)
Peachbell	6	7	A	0.0612	0.184	0.0206	24.6	563	0.659	103
Rose	4	7	A	0.0772	0.232	0.0328	39.1	881	0.414	138
Iris	2	7	AA, A	0.0974	0.292	0.0522	62.2	1350	0.260	185
Pansy	1	7	AA, A	0.1093	0.328	0.0657	78.4	1640	0.207	214
Poppy	1/0	7	AA, A	0.1228	0.368	0.0829	98.9	1990	0.164	247
Aster	2/0	7	AA, A	0.1379	0.414	0.1045	124.8	2510	0.130	286
Phlox	3/0	7	AA, A	0.1548	0.464	0.1317	157.2	3040	0.103	331
Oxlip	4/0	7	AA, A	0.1739	0.522	0.1663	198.4	3830	0.0817	383
Sneezewort	250	7	AA	0.1890	0.567	0.1964	234.4	4520	0.0691	425
Valerian	250	19	A	0.1147	0.574	0.1963	234.3	4660	0.0691	426
Daisy	266.8	7	AA	0.1953	0.586	0.2097	250.2	4830	0.0648	443
Laurel	266.8	19	A	0.1185	0.593	0.2095	250.1	4970	0.0648	444
Peony	300	19	A	0.1257	0.629	0.2358	281.4	5480	0.0576	478
Tulip	336.4	19	A	0.1331	0.666	0.2644	315.5	6150	0.0514	513
Daffodil	350	19	A	0.1357	0.679	0.2748	327.9	6390	0.0494	526
Canna	397.5	19	AA, A	0.1447	0.724	0.3125	372.9	7110	0.0435	570
Goldentuft	450	19	AA	0.1539	0.769	0.3534	421.8	7890	0.0384	616
Cosmos	477	19	AA	0.1584	0.793	0.3744	446.8	8360	0.0362	639
Syringa	477	37	A	0.1135	0.795	0.3744	446.8	8690	0.0362	639
Zinnia	500	19	AA	0.1622	0.811	0.3926	468.5	8760	0.0346	658
Hyacinth	500	37	A	0.1162	0.813	0.3294	468.3	9110	0.0346	658
Dahlia	556.5	19	AA	0.1711	0.856	0.4369	521.4	9750	0.0311	703
Mistletoe	556.5	37	A	0.1126	0.858	0.4368	521.3	9940	0.0311	704
Meadowsweet	600	37	AA, A	0.1273	0.891	0.4709	562.0	10700	0.0288	738
Orchid	636	37	AA, A	0.1311	0.918	0.4995	596.1	11400	0.0272	765
Heuchera	650	37	AA	0.1326	0.928	0.5110	609.8	11600	0.0266	775
Verbena	700	37	AA	0.1375	0.963	0.5494	655.7	12500	0.0247	812



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Flag	700	61	A	0.1071	0.964	0.5495	655.8	12900	0.0247	812
Violet	715.5	37	AA	0.1391	0.974	0.5623	671.0	12800	0.0242	823
Nasturtium	715.5	61	A	0.1083	0.975	0.5619	670.6	13100	0.0242	823
Petunia	750	37	AA	0.1424	0.997	0.5893	703.2	13100	0.0230	847
Cattail	750	61	A	0.1109	0.998	0.5892	703.2	13500	0.0230	847
Arbutus	795	37	AA	0.1466	1.026	0.6245	745.3	13900	0.0217	878
Lilac	795	61	A	0.1142	1.028	0.6248	745.7	14300	0.0217	879
Cockscomb	900	37	AA	0.1560	1.092	0.7072	844.0	16400	0.0192	948
Snapdragon	900	61	A	0.1215	1.094	0.7072	844.0	15900	0.0192	948
Magnolia	954	37	AA	0.1606	1.124	0.7495	894.5	16400	0.0181	982
Goldenrod	954	61	A	0.1251	1.126	0.7498	894.8	16900	0.0181	983
Hawkweed	1000	37	AA	0.1644	1.150	0.7854	937.3	17200	0.0173	1010
Camellia	1000	61	A	0.1280	1.152	0.7849	936.8	17700	0.0173	1011
Bluebell	1033.5	37	AA	0.1671	1.170	0.8114	968.3	17700	0.0167	1031
Larkspur	1033.5	61	A	0.1302	1.172	0.8112	969.2	18300	0.0167	1032
Marigold	1113	61	AA, A	0.1351	1.216	0.8744	1044	19700	0.0155	1079
Hawthorn	1192.5	61	AA, A	0.1398	1.258	0.9363	1117	21100	0.0145	1124
Narcissus	1272	61	AA, A	0.1444	1.300	0.9990	1192	22000	0.0136	1169
Columbine	1351.5	61	AA, A	0.1488	1.340	1.0608	1266	23400	0.0128	1212
Carnation	1431	61	AA, A	0.1532	1.379	1.1244	1342	24300	0.0121	1253
Gladiolus	1510.5	61	AA, A	0.1574	1.417	1.1869	1417	25600	0.0114	1294
Coreopsis	1590	61	AA	0.1614	1.454	1.2480	1489	27000	0.0109	1333
Jessamine	1750	61	AA	0.1694	1.525	1.3748	1641	29700	0.00989	1408
Cowslip	2000	91	A	0.1482	1.630	1.5697	1873	34200	0.00864	1518
Sagebrush	2250	91	A	0.1572	1.729	1.7662	2128	37700	0.00777	1612
Lupine	2500	91	A	0.1657	1.823	1.9623	2365	41900	0.00699	1706
Bitterroot	2750	91	A	0.1738	1.913	2.1589	2602	46100	0.00634	1793
Trillium	3000	127	A	0.1537	1.996	2.3564	2840	50300	0.00581	1874
Bluebonnet	3500	127	A	0.1660	2.158	2.7486	3345	58700	0.00498	2014