

AAC All Aluminum Conductor

Construction:

AAC is composed entirely out of 1350-H19 aluminum wires.

Conductor Properties:

AAC has a good corrosion resistance due to being composed out of aluminum wires only, it has low price, minimum conductivity of 61.2% IACS low breaking strength and high creep values. AAC has the highest conductivity per weight among all bare overhead conductors.

Applications:

AAC is recommended for use where high current transfer is required in short spans making it ideal for use in urban areas.

Standards:

AAC bare conductors meet or exceed the following ASTM specifications:

B-230 Aluminum Wire, 1250-H19 for Electrical Purposes

B-231 Aluminum Conductors, Concentric-Lay-Stranded

B-400 Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors

Search											
Item#	Size AWG	No. of Wires	CLASS	Diameter Indiv. Wire Cable	Diameter Complete (O.D.)	Cross Sectional Area	Weight Per 1000ft	Rated Breaking Strength	Resistance DC 20°C Per 1000ft.	Resistance AC 75°C per 1000ft.	Rating
Peachbell	6	7	A	.0612 Inches	.184 Inches	.0206 sq. inches	24.6 Lbs	563 Lbs	.658 Ω	.805 Ω	103 Amps
Rose	4	7	A	.0772 Inches	.232 Inches	.0328 sq. inches	39.2 Lbs	881 Lbs	.414Ω	.506Ω	138 Amps
Iris	2	7	A AA	.0974 Inches	.292 Inches	.0521 sq. inches	62.3 Lbs	1350 Lbs	.260Ω	.318Ω	185 Amps
Pansy	1	7	AAA	.1093 Inches	.328 Inches	.0657 sq. inches	99.1 Lbs	1640 Lbs	.207 Ω	.252 Ω	214 Amps
Poppy	1/0	7	A AA	.1228 Inches	.368 Inches	.0829 sq.inches	78.5 Lbs	1990 Lbs	.164Ω	.202Ω	247 Amps
Aster	2/0	7	A AA	.1379 Inches	.414 Inches	.1045 sq.inches	124.9Lbs	2510Lbs	.130Ω	.159Ω	286Amps
Phlox	3/0	7	A AA	.1548 Inches	.464 Inches	.1318 sq.inches	157.5Lbs	3040Lbs	.103Ω	.126Ω	331Amps
Oxlip	4/0	7	A AA	.1739 Inches	.522 Inches	.1662 sq.inches	198.6 Lbs	3830 Lbs	.0817 Ω	.0999 Ω	383Amps
Sneezewort	250	7	AA	.1890	.567	.1964	234.7	4520 Lbs	.0691 Ω	.0846 Ω	425 Amps



				Inches	Inches	sq.inches	Lbs				
Valerian	250	19	A	.1147 Inches	.574 Inches	.1964 sq.inches	234.7 Lbs	4660 Lbs	.0691 Ω	.0846 Ω	426 Amps
Daisy	266.8	7	A AA	.1953 Inches	.586 Inches	.2095 sq.inches	250.5 Lbs	4830 Lbs	.0648 Ω	.0793 Ω	443 Amps
Laurel	266.8	19	A	.1185 Inches	.593 Inches	.2095 sq.inches	250.5 Lbs	4970 Lbs	.0648 Ω	.0793 Ω	444 Amps
Peony	300	19	A	.1257 Inches	.629 Inches	.2356 sq.inches	286.1 Lbs	5480 Lbs	.0576Ω	.0706Ω	478 Amps
Tulip	336.1	19	A	.1331 Inches	.666 Inches	.2642 sq.inches	315.8Lbs	6150Lbs	.0514Ω	.0630Ω	513Amps
Daffodil	350	19	A	.1357 Inches	.679 Inches	.2749 sq.inches	328.6 Lbs	6390 Lbs	.0494 Ω	.0605 Ω	526 Amps
Canna	397.5	19	A AA	.1447 Inches	.724 Inches	.3122 sq.inches	373.2 Lbs	7110 Lbs	.0435 Ω	.0534 Ω	570Amps
Goldentuft	450	19	AA	.1538 Inches	.769 Inches	.3534 sq.inches	422.4 Lbs	7890 Lbs	.0384 Ω	.0472 Ω	616 Amps
Cosmos	477	19	AA	.1584 Inches	.793 Inches	.3746 sq.inches	447.8 Lbs	8360 Lbs	.0362 Ω	.0445 Ω	639 Amps
Syringa	477	37	A	.1135 Inches	.795 Inches	.3746 sq.inches	447.8 Lbs	8690 Lbs	.0362 Ω	.0445 Ω	639 Amps
Zinnia	500	19	AA	.1622 Inches	.811 Inches	.3927 sq.inches	469.4 Lbs	8760 Lbs	.0346 Ω	.0425 Ω	658 Amps
Hyacinth	500	37	A	.1162 Inches	.813 Inches	.329 sq.inches	469.4 Lbs	9110 Lbs	.0346 Ω	.0425 Ω	658Amps
Dahlia	556.5	19	AA	.1711 Inches	.856 Inches	.4371 sq.inches	522.4 Lbs	9750 Lbs	.0311Ω	.0382 Ω	703Amps
Mistletoe	556.5	37	A	.1226 Inches	.858 Inches	.4371 sq.inches	522.4 Lbs	9940 Lbs	.0311Ω	.0382 Ω	704Amps
Meadowsweet	600	37	A AA	.1273 Inches	.891 Inches	.4712 sq.inches	563.2 Lbs	10700Lbs	.0288 Ω	.0355 Ω	738Amps
Orchid	636	37	A AA	.1311 Inches	.918 Inches	.4995 sq.inches	597.0 Lbs	11400Lbs	.0272 Ω	.0335 Ω	765Amps
Heuchera	650	37	AA	.1326 Inches	.928 Inches	.5105 sq.inches	610.2 Lbs	11600Lbs	.0266Ω	.0328Ω	775 Amps
Verbena	700	37	AA	.1375 Inches	.963 Inches	.5498 sq.inches	657.1 Lbs	12500Lbs	.0247 Ω	.0305 Ω	812 Amps
Flag	700	61	A	.1071 Inches	.964 Inches	.5498 sq.inches	657.1 Lbs	12900Lbs	.0247 Ω	.0305 Ω	812 Amps
Violet	715.5	37	AA	.1391 Inches	.974 Inches	.5620 sq.inches	671.7Lbs	12800Lbs	.0242 Ω	.0299 Ω	823Amps
Nasturtium	715.5	61	A	.1083 Inches	.975 Inches	.5620 sq.inches	671.7Lbs	13100Lbs	.0242 Ω	.0299 Ω	823Amps
Petunia	750	37	AA	.1424 Inches	.997 Inches	.5891 sq.inches	704.0 Lbs	13100Lbs	.0230 Ω	.0286 Ω	847Amps
Cattail	750	61	A	.1109 Inches	.998 Inches	.5891 sq.inches	704.0 Lbs	13500Lbs	.0230 Ω	.0286 Ω	847Amps
Arbutus	795	37	AA	.1446 Inches	1.026 Inches	.6244 sq.inches	746.3 Lbs	13900Lbs	.0217 Ω	.0271Ω	878Amps
Lilac	795	61	A	.1142 Inches	1.028 Inches	.6244 sq.inches	746.3 Lbs	14300Lbs	.0217 Ω	.0270 Ω	879Amps
Cockscomb	900	37	AA	.1560	1.092	.7069	844.9	15400Lbs	.0192 Ω	.0239 Ω	948Amps



				Inches	Inches	sq.inches	Lbs				
Snapdragon	900	61	A	.1215 Inches	1.094 Inches	.7069 sq.inches	844.9 Lbs	15900Lbs	.0192Ω	.0239Ω	948 Amps
Magnolia	954	37	AA	.1606 Inches	1.124 Inches	.7493 sq.inches	895.6 Lbs	16400Lbs	.0181 Ω	.0226 Ω	982 Amps
Goldenrod	954	61	A	.1251 Inches	1.126 Inches	.7493 sq.inches	895.6 Lbs	16900Lbs	.0181 Ω	.0226 Ω	983 Amps
Hawkweed	1000	37	AA	.1644 Inches	1.150 Inches	.7854 sq.inches	938.7Lbs	17200Lbs	.0173Ω	.0216Ω	1010Amps
Camellia	1000	61	A	.1280 Inches	1.152 Inches	.7854 sq.inches	938.7Lbs	17700Lbs	.0173Ω	.0216Ω	1011Amps
Bluebell	1033.5	37	AA	.1671 Inches	1.170 Inches	.8117 sq.inches	970.2Lbs	17700Lbs	.0167Ω	.0210Ω	1031Amps
Larkspur	1033.5	61	A	1302 Inches	.1.172 Inches	.8117 sq.inches	970.2 Lbs	18300Lbs	.0167 Ω	.0210 Ω	1032Amps
Marigold	1113	61	A AA	.1351 Inches	1.216 Inches	.8742 sq.inches	1045 Lbs	19700Lbs	.0155 Ω	.0195 Ω	1079Amps
Hawthorn	1192.5	61	A AA	.1398 Inches	1.258 Inches	.9366 sq.inches	1119Lbs	21000Lbs	.0145Ω	.0183Ω	1124Amps
Narcissus	1272	61	A AA	.1444 Inches	1.300 Inches	.9990 sq.inches	1194 Lbs	22000Lbs	.0136Ω	.0173Ω	1169Amps
Columbine	1351.5	61	A AA	.1489 Inches	1.340 Inches	1.062 sq.inches	1269 Lbs	23400Lbs	.0128Ω	.0163Ω	1212Amps
Carnation	1431	61	A AA	.1532 Inches	1.379 Inches	1.124sq. inches	1343 Lbs	24300Lbs	.0121Ω	.0155 Ω	1253Amps
Gladiolus	1510.5	61	A AA	.1574 Inches	1.417 Inches	1.186 sq.inches	1418 Lbs	25600Lbs	.0144 Ω	.0147 Ω	1294Amps
Coreopsis	1590	61	AA	.1614 Inches	1.454 Inches	1.249 sq.inches	1493 Lbs	27000Lbs	.0109 Ω	.0141Ω	1333Amps
Jessamine	1750	61	AA	.1694 Inches	1.525 Inches	1.374 sq.inches	1643 Lbs	29700Lbs	.00988Ω	.0129 Ω	1408Amps
Cowslip	2000	91	A	.1482 Inches	1.630 Inches	1.571 sq.inches	1877 Lbs	32200Lbs	.00864 Ω	.0115 Ω	1518Amps
Sagebrush	2250	91	A	.1572 Inches	1.729 Inches	1.767 sq.inches	2131 Lbs	37500Lbs	.00776 Ω	.0105 Ω	1612Amps
Lupine	2500	91	A	.1657 Inches	1.823 Inches	1.964 sq.inches	2370 Lbs	41900Lbs	.00698 Ω	.00969 Ω	1706Amps
Bitterroot	2750	91	A	.1739 Inches	1.913 Inches	2.160 sq.inches	2607 Lbs	46100Lbs	.00635 Ω	.00900 Ω	1793Amps
Trillium	3000	127	A	.1537 Inches	1.996 Inches	2.356 sq.inches	2844 Lbs	50300Lbs	.00582 Ω	.00834 Ω	1874Amps
Bluebonnet	3500	127	A	.1660 Inches	2.158 Inches	2.749 sq.inches	3350 Lbs	58700Lbs	.00499 Ω	.00756 Ω	2024Amps

