KINGWIRE

(847) 688-1100

AAC BARE ALUMINUM

APPLICATION: Stranded 1350 aluminum conductors shown in this section of data are classified as follows: Class AA for bare conductors usually used in overhead lines; Class A for conductors to be covered with weather-resistant materials and for bare conductors where greater flexibility is required.

Compact strand conductor for use in bare overhead applications or for use with weather-resistant coverings or insulations is also available.

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

PRODUCT FEATURES: Aluminum alloy 1350-H19 wires, concentrically stranded.

SPECIFICATIONS: AAC bare conductors meet or excede the following ASTM Specifications:

- ***B-230*** Aluminum Wire, 1350-H19 for Electrical Purposes
- ***B-231*** Aluminum Conductors, Concentric-Lay-Stranded
- ***B-400*** Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors

KINGWIRE AAC - Bare Aluminum											
Code Word	AWG	Stranding		Diameter		Cross Sectional Area (sq. in.)	Weight per 1000 ft (Lbs)	Rated Breaking Strength (Lbs)	Resistance OHMS/1000 ft		Rating (AMPS)
		# of Wires	Class	Indiv. Wire	Complete Cable OD				DC @ 20˚C	AC @ 75˚C	
Peachbell	6	7/w	A	.0612	.184	.0206	24.6	563	.658	.805	103
Rose	4	7/w	A	.0772	.232	.0328	39.2	881	.414	.506	138
Iris	2	7/w	AA,A	.0974	.292	.0521	62.3	1,350	.260	.318	185
Pansey	1	7/w	AA,A	.1093	.328	.0657	78.5	1,640	.207	.252	214
Poppy	1/0	7/w	AA,A	.1228	.368	.0829	99.1	1,990	.164	.202	247
Aster	2/0	7/w	AA,A	.1379	.414	.1045	124.9	2,510	.130	.159	286
Phlox	3/0	7/w	AA,A	.1548	.464	.1318	157.5	3,040	.103	.126	331
Oxlip	4/0	7/w	AA,A	.1739	.522	.1662	198.6	3,830	.0817	.0999	383
Sneezewort	250	7/w	AA	.1890	.567	.1964	234.7	4,520	.0691	.0846	425
Valerian	250	19/w	A	.1147	.574	.1964	234.7	4,660	.0691	.0846	426
Daisy	266.8	19/w	AA	.1953	.586	.2095	250.5	4,830	.0648	.0793	443
Laurel	266.8	19/w	A	.1185	.593	.2095	250.5	4,970	.0648	.0793	444
Peony	300	19/w	A	.1257	.629	.2356	286.1	5,480	.0576	.0706	478
Tulip	336.4	19/w	A	.1331	.666	.2642	315.8	6,150	.0514	.0630	513
Daffodil	350	19/w	A	.1357	.679	.2749	328.6	6,390	.0494	.0605	526
Canna	397.5	19/w	AA,A	.1447	.724	.3122	373.2	7,110	.0435	.0534	570
Goldentuft	450	19/w	AA	.1538	.769	.3534	422.4	7,890	.0384	.0472	616
Cosmos	477	19/w	A	.1584	.793	.3746	447.8	8,360	.0362	.0445	639
Syringa	477	37/w	A	.1135	.795	.3746	447.8	8,690	.0362	.0445	639
Zinnia	500	19/w	AA	.1622	.811	.3927	469.4	8,760	.0346	.0425	658
Hyacinth	500	37/w	A	.1162	.813	.329	469.4	9,110	.0346	.0425	658

KINGWIRE AAC - Alloy Bare Aluminum											
Code Word	AWG	Stranding		Diameter		Cross Sectional Area (sq. in.)	Weight per 1000 ft (Lbs)	Rated Breaking Strength (Lbs)	Resistance OHMS/1000 ft		Rating (AMPS)
		# of Wires	Class	Indiv. Wire	Complete Cable OD				DC @ 20˚C	AC @ 75˚C	
Dahlia	556.5	19/w	AA	.1711	.856	.4371	522.4	9,750	.0311	.0382	703
Mistletoe	556.5	37/w	AA,A	.1226	.858	.4371	522.4	9,940	.0311	.0382	704
Meadowsweet	600	37/w	AA,A	.1273	.891	.4712	563.2	10,700	.0288	.0355	738
Orchid	636	37/w	AA,A	.1311	.918	.4995	597.0	11,400	.0272	.0355	765
Heuchera	650	37/w	AA	.1326	.928	.5105	610.2	11,600	.0266	.0328	775
Verbena	700	37/w	AA	.1375	.963	.5498	657.1	12,500	.0247	.0305	812
Flag	700	61/w	A	.1071	.964	.5498	657.1	12,900	.0274	.0305	812
Violet	715.5	37/w	AA	.1391	.974	.5620	671.7	12,800	.0242	.0299	823
Nasturtium	715.5	61/w	A	.1083	.975	.5620	671.7	13,100	.0242	.0299	823
Petunia	750	37/w	AA	.1424	.997	.5891	704.0	13,500	.0230	.0286	847
Cattail	750	61/w	A	.1109	.998	.5891	704.0	13,500	.0230	.0286	847
Arbutus	795	37/w	AA	.1446	1,026	.6244	746.3	13,900	.0217	.0271	878
Lilac	795	61/w	A	.1142	1,028	.6244	746.3	14,300	.0217	.0270	879
Cockscomb	900	37/w	AA	.1560	1,092	.7069	844.9	15,400	.0192	.0239	948
Snapdragon	900	61/w	A	.1215	1,094	.7069	844.9	15,900	.0192	.0239	948
Magnolia	954	37/w	AA	.1606	1,124	.7493	895.6	16,400	.0181	.0226	982
Goldenrod	954	61/w	A	.1251	1,126	.7493	895.6	16,900	.0181	.0226	983
Hawkweed	1000	37/w	AA	.1644	1,150	.7854	938.7	17,200	.0173	.0216	1010
Camellia	1000	61/w	A	.1280	1,152	.7854	938.7	17,700	.0173	.0216	1011
Bluebell	1033.5	37/w	AA	.1671	1,170	.8117	970.2	17,700	.0167	.0210	1031
Larkspur	1033.5	61/w	A	.1302	1,172	.8117	970.2	18,300	.0167	.0210	1032
Marigold	1113	61/w	AA,A	.1351	1,216	.8742	1045	19,700	.0155	.0195	1079
Hawthorn	1192.5	61/w	AA,A	.1398	1,258	.9366	1119	21,100	.0145	.0183	1124
Narcissus	1272	61/w	AA,A	.1444	1,300	.9990	1194	22,000	.0136	.0173	1169
Columbine	1351.5	61/w	AA,A	.1489	1,340	1,061	1269	23,400	.0128	.0163	1212
Carnation	1431	61/w	AA,A	.1532	1,379	1,124	1343	24,300	.0121	.0155	1253
Gladiolus	1510.5	61/w	AA,A	.1574	1,417	1,186	1418	25,600	.0144	.0147	1294
Coreopsis	1590	61/w	AA	.1614	1,454	1,249	1493	27,000	.0109	.0141	1333
Jessamine	1750	61/w	AA	.1694	1,525	1,374	1643	29,700	.00988	.0129	1408
Cowslip	2000	91/w	A	.1482	1,630	1,571	1877	34,200	.00864	.0115	1518
Sagebrush	2250	91/w	A	.1572	1,729	1,767	2131	37,500	.00776	.0105	1612
Lupine	2500	91/w	A	.1657	1,823	1,964	2370	41,900	.00698	.00969	1706
Bitterroot	2750	91/w	A	.1739	1,913	2,160	2607	46,100	.00635	.00900	1793
Trillium	3000	127/w	A	.1537	1,996	2,356	2844	50,300	.00582	.00834	1874
Bluebonnet	3500	127/w	A	.1660	2,158	2,749	3350	58,700	.0049	.00756	2024

Notes:

1. Resistance is calculated using ASTM standard increments of stranding and metal conductivity of 52.5% IACS, AC resistance at 60Hz
2. Current ratings are based on 75°C ambient, 2ft/s wind, 96/watts/sq. foot sun, .05 coefficients of emissivity and absorption.