

# AAC BARE ALUMINUM

## APPLICATIONS

Stranded 1350 aluminum conductors shown in this section of data are classified as follows: bare conductors usually used in overhead lines; 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.

## SPECIFICATIONS

Aluminum alloy 1350-H19 wires, concentrically stranded.

AAC bare conductors meet or exceed 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

## 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, 2f/s wind, 96/watts/sq. foot sun, 0.5 coefficients of emissivity and absorption.

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	Indiv. Wire	Complete Cable OD	DC @ 20°C				AC @ 75°C		
Peachbell	6	7/w	.0612	.184	.0206	24.6	563	.658	.805	103	
Rose	4	7/w	.0772	.232	.0328	39.2	881	.414	.506	138	
Iris	2	7/w	.0974	.292	.0521	62.3	1,350	.260	.318	185	
Pansy	1	7/w	.1093	.328	.0657	78.5	1,640	.207	.252	214	
Poppy	1/0	7/w	.1228	.368	.0829	99.1	1,990	.164	.202	247	
Aster	2/0	7/w	.1379	.414	.1045	124.9	2,510	.130	.159	286	
Phlox	3/0	7/w	.1548	.464	.1318	157.5	3,040	.103	.126	331	
Oxlip	4/0	7/w	.1739	.522	.1662	198.6	3,830	.0817	.0999	383	
Sneezewort	250	7/w	.1890	.567	.1964	234.7	4,520	.0691	.0846	425	
Valerian	250	19/w	.1147	.574	.1964	234.7	4,660	.0691	.0846	426	



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	Indiv. Wire	Complete Cable OD	DC @ 20°C				AC @ 75°C		
Daisy	266.8	19/w	.1953	.586	.2095	250.5	4,830	.0648	.0793	443	
Laurel	266.8	19/w	.1185	.593	.2095	250.5	4,970	.0648	.0793	444	
Peony	300	19/w	.1257	.629	.2356	286.1	5,480	.0576	.0706	478	
Tulip	336.4	19/w	.1331	.666	.2642	315.8	6,150	.0514	.0630	513	
Daffodil	350	19/w	.1357	.679	.2749	328.6	6,390	.0494	.0605	526	
Canna	397.5	19/w	.1447	.724	.3122	373.2	7,110	.0435	.0534	570	
Goldentuft	450	19/w	.1538	.769	.3534	422.4	7,890	.0384	.0472	616	
Cosmos	477	19/w	.1584	.793	.3746	447.8	8,360	.0362	.0445	639	
Syringa	477	37/w	.1135	.795	.3746	447.8	8,690	.0362	.0445	639	
Zinnia	500	19/w	.1622	.811	.3927	469.4	8,760	.0346	.0425	658	
Hyacinth	500	37/w	.1162	.813	.329	469.4	9,110	.0346	.0425	658	
Dahlia	556.5	19/w	.1711	.856	.4371	522.4	9,750	.0311	.0382	703	
Misttotee	556.5	37/w	.1226	.858	.4371	522.4	9,940	.0311	.0382	704	
Meadowsweet	600	37/w	.1273	.891	.4712	563.2	10,700	.0288	.0355	738	
Orchid	636	37/w	.1311	.918	.4995	597.0	11,400	.0272	.0355	765	
Heuchera	650	37/w	.1326	.928	.5105	610.2	11,800	.0266	.0328	775	
Verbena	700	37/w	.1375	.963	.5498	657.1	12,500	.0247	.0305	812	
Flag	700	61/w	.1071	.964	.5498	657.1	12,900	.0274	.0305	812	
Violet	715.5	37/w	.1391	.974	.5620	671.7	12,800	.0242	.0299	823	
Nasturtium	715.5	61/w	.1083	.975	.5620	671.7	13,100	.0242	.0299	823	
Petunia	750	37/w	.1424	.997	.5891	704.0	13,500	.0230	.0286	847	
Cattail	750	61/w	.1109	.998	.5891	704.0	13,500	.0230	.0286	847	
Arbutus	795	37/w	.1446	1.026	.6244	746.3	13,900	.0217	.0271	878	
Lilac	795	61/w	.1142	1.028	.6244	746.3	14,300	.0217	.0270	879	
Cockscorn	900	37/w	.1560	1.092	.7069	844.9	15,400	.0192	.0239	948	
Snapdragon	900	61/w	.1215	1.094	.7069	844.9	15,900	.0192	.0239	948	
Magnolia	954	37/w	.1606	1.124	.7493	895.6	16,400	.0181	.0226	982	
Goldenrod	954	61/w	.1251	1.126	.7493	895.6	16,900	.0181	.0226	983	
Hawkweed	1000	37/w	.1644	1.150	.7854	938.7	17,200	.0173	.0216	1010	
Camellia	1000	61/w	.1280	1.152	.7854	938.7	17,700	.0173	.0216	1011	
Bluebell	1033.5	37/w	.1671	1.170	.8117	970.2	17,700	.0167	.0210	1031	
Larkspur	1033.5	61/w	.1302	1.172	.8117	970.2	18,300	.0167	.0210	1032	
Marigold	1113	61/w	.1351	1.216	.8742	1045	19,700	.0155	.0195	1079	
Hawthorn	1192.5	61/w	.1398	1.258	.9366	1119	21,100	.0145	.0183	1124	
Narcissus	1272	61/w	.1444	1.300	.9990	1194	22,000	.0136	.0173	1169	
Columbine	1351.5	61/w	.1489	1.340	1.061	1269	23,400	.0128	.0163	1212	
Carnation	1431	61/w	.1532	1.379	1.124	1343	24,300	.0121	.0155	1253	
Glaucolius	1510.5	61/w	.1574	1.417	1.186	1418	25,600	.0114	.0147	1294	
Coreopsis	1590	61/w	.1614	1.454	1.249	1493	27,000	.0109	.0141	1333	
Jessamine	1750	61/w	.1694	1.525	1.374	1643	29,700	.00988	.0129	1408	
Cwslip	2000	91/w	.1482	1.630	1.571	1877	34,200	.00864	.0115	1518	
Sagebrush	2250	91/w	.1572	1.729	1.767	2131	37,500	.00776	.0105	1612	
Lupine	2500	91/w	.1657	1.823	1.964	2370	41,900	.00698	.00969	1706	
Bitterroot	2750	91/w	.1739	1.913	2.160	2607	46,100	.00635	.00900	1793	
Trillium	3000	127/w	.1537	1.996	2.356	2844	50,300	.00582	.00834	1874	
Bluebonnet	3500	127/w	.1660	2.158	2.749	3350	58,700	.0049	.00756	2024	