



POWER & OPTICAL SYSTEMS

**CATALOG
2026**





AAC

Applications

Used primarily in overhead transmission and distribution lines. Ideal for urban areas with short spans and high conductivity requirements. Suitable for installations where lightweight conductors are preferred.

Specifications (Standards)

ASTM B230

Aluminum 1350-H19 wire for electrical purposes.

ASTM B231

Concentric-lay-stranded aluminum conductors.

Construction

Made from 1350-H19 aluminum, which is 99.5% pure aluminum. Stranded in a concentric-lay configuration to provide flexibility and mechanical strength. Available in different stranding options, such as 7, 19, 37, 61, or 91 wires, depending on size and application.

Classes

AAC conductors are classified based on stranding configuration:

Class AA Used for bare conductors in overhead lines where maximum flexibility is not required.

Class A Used for conductors with limited flexibility.



Technical Data 1/4

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

Technical Data 2/4

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	
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

Technical Data 3/4

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	
Petunia	750	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	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	37	AA	.1606	1.124	.7495	894	16400	.0181	.0226	982
Goldenrod	954	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	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	61	AA, A	.1444	1.3	.999	1192	22000	.0136	.0173	1169

Technical Data 4/4

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	
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	61	AA	.1614	1.453	1.248	1490	27000	.0109	.0141	1333
Jessamine	1750	61	AA	.1694	1.524	1.3748	1640	29700	.00988	.0129	1408
Cowslip	2000	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	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 75°C ambient temperature 25°C, emissivity 0.5, wind 2 ft./sec., in sun.

Notes



US ElectricWire

US Electric Wire Corp.

Gables International Plaza, 2655 Le Jeune Rd. Ste#905, Coral Gables, FL 33134

www.uselectricwire.com | (954) 410-6574

© 2026, US Electric Wire Corp. All Rights Reserved