AAC

All Aluminum Conductor. Bare.

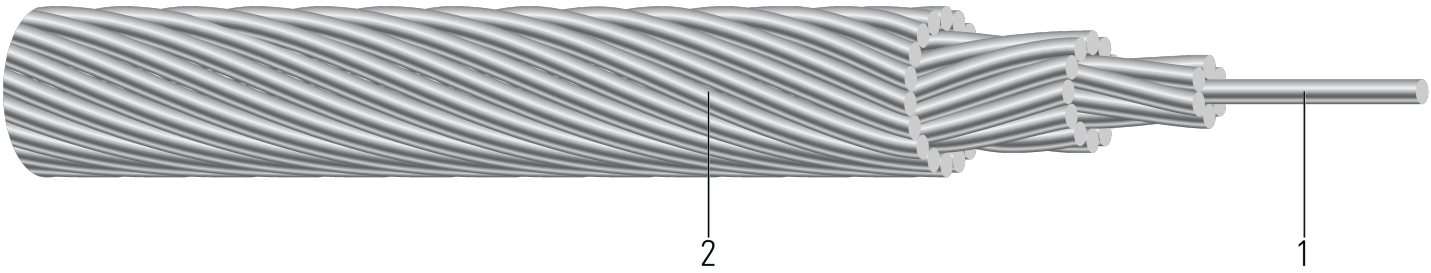


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Aluminum 1350-H19 wires, concentrically stranded.

APPLICATIONS AND FEATURES:

Classes[1] AA and A are used primarily for overhead transmission and primary and secondary distribution, where ampacity must be maintained and a lighter conductor (compared to ACSR) is desired, and when conductor strength is not a critical factor. Classes B and C are used primarily as bus, apparatus connectors and jumpers, where additional flexibility is required.

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

SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors

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Table 1 – Weights and Measurements

Stock Number	Code Word	Conductor Size	No. of Wires	Stranding Class	Ind. Wire Dia	Comp Cable	Cross-Sectional Area	Overall Weight
		AWG or kcmil			inch	inch	sq. inch	lb/1000ft
	Peachbell	6	7	A	0.0612	0.184	0.0206	25
	Rose	4	7	A	0.0772	0.232	0.0328	39
100834	Iris	2	7	AA, A	0.0974	0.292	0.0522	62
	Pansy	1	7	AA	0.1093	0.328	0.0657	78
100859	Poppy	1/0	7	AA, A	0.1228	0.368	0.0829	99
100867	Aster	2/0	7	AA, A	0.1379	0.414	0.1045	125
100875	Phlox	3/0	7	AA, A	0.1548	0.464	0.1317	157
100883	Oxlip	4/0	7	AA, A	0.1739	0.522	0.1663	198
	Sneezewort	250	7	AA	0.189	0.567	0.1964	234
	Valerian	250	19	A	0.1147	0.574	0.1963	234
100891	Daisy	266.8	7	AA	0.1952	0.586	0.2095	250
100909	Laurel	266.8	19	A	0.1185	0.592	0.2095	250
	Peony	300	19	A	0.1257	0.628	0.2358	281
100917	Tulip	336.4	19	A	0.1331	0.665	0.2644	315
148122	Daffodil	350	19	A	0.1357	0.679	0.2748	328
100925	Canna	397.5	19	AA, A	0.1446	0.723	0.312	373
	Goldentuft	450	19	AA	0.1539	0.769	0.3534	422
100933	Cosmos	477	19	AA	0.1584	0.792	0.3744	447
100958	Syringa	477	37	A	0.1135	0.795	0.3744	447
	Zinnia	500	19	AA	0.1622	0.811	0.3926	469
	Hyacinth	500	37	AA	0.1162	0.814	0.3924	469
100941	Dahlia	556.5	19	AA	0.1711	0.856	0.4369	522
100966	Mistletoe	556.5	37	AA	0.1226	0.858	0.4368	522
157743	Meadowsweet	600	37	AA	0.1273	0.891	0.4709	562
100974	Orchid	636	37	AA, A	0.1311	0.918	0.4995	596
	Heuchera	650	37	AA	0.1325	0.928	0.5102	609
	Verbena	700	37	AA	0.1375	0.963	0.5494	656
	Flag	700	61	A	0.1071	0.964	0.5495	656
	Violet	715.5	37	AA	0.1391	0.973	0.5623	671
	Nasturtium	715.5	61	AA	0.1083	0.975	0.5619	671
182618	Petunia	750	37	AA	0.1424	0.997	0.5893	703
	Cattail	750	61	AA	0.1109	0.998	0.5892	703
100990	Arbutus	795	37	AA	0.1466	1.026	0.6245	745
	Lilac	795	61	A	0.1142	1.027	0.6248	745
	Cockscomb	900	37	AA	0.156	1.092	0.7072	844
	Snapdragon	900	61	AA	0.1215	1.093	0.7072	844
101014	Magnolia	954	37	AA	0.1606	1.124	0.7495	894
101063	Goldenrod	954	61	A	0.1251	1.125	0.7498	894
	Hawkweed	1000	37	AA	0.1644	1.151	0.7854	937
	Camellia	1000	61	AA	0.128	1.152	0.7849	937
101022	Bluebell	1033.5	37	AA	0.1671	1.17	0.8114	969

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Stock Number	Code Word	Conductor Size	No. of Wires	Stranding Class	Ind. Wire Dia	Comp Cable	Cross-Sectional Area	Overall Weight
		AWG or kcmil			inch	inch	sq. inch	lb/1000ft
	Larkspur	1033.5	61	AA	0.1302	1.171	0.8122	969
	Marigold	1113	61	AA, A	0.1351	1.216	0.8744	1043
	Hawthorn	1192.5	61	AA, A	0.1398	1.258	0.9363	1118
101105	Narcissus	1272	61	AA, A	0.1444	1.3	0.999	1192
	Columbine	1351.5	61	AA, A	0.1488	1.34	1.0608	1267
	Carnation	1431	61	AA, A	0.1532	1.378	1.1244	1341
	Gladiolus	1510.5	61	A	0.1574	1.416	1.1869	1416
101147	Coreopsis	1590	61	AA	0.1614	1.453	1.248	1490
182634	Jessamine	1750	61	AA	0.1694	1.524	1.3748	1640
	Cowslip	2000	91	A	0.1482	1.631	1.5697	1875
	Sagebrush	2250	91	A	0.1572	1.73	1.7662	2130
182675	Lupine	2500	91	A	0.1657	1.823	1.9623	2366
	Bitterroot	2750	91	A	0.1738	1.912	2.1589	2603
	Trillium	3000	127	A	0.1537	1.998	2.3564	2839
	Bluebonnet	3500	127	A	0.166	2.158	2.7486	3345

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Table 2 - Electrical and Engineering Data

Stock Number	Code Word	Size	Rated Strength	DC Resistance @ 20°C	AC Resistance @ 75°C	Allowable Ampacity†
		AWG or kcmil	lb	Ω/1000ft	Ω/1000ft	amp
	Peachbell	6	563	0.658	0.805	103
	Rose	4	881	0.414	0.506	138
100834	Iris	2	1350	0.26	0.318	185
	Pansy	1	1640	0.207	0.252	214
100859	Poppy	1/0	1990	0.164	0.2	247
100867	Aster	2/0	2510	0.13	0.159	286
100875	Phlox	3/0	3040	0.103	0.126	331
100883	Oxlip	4/0	3830	0.0817	0.0999	383
	Sneezewort	250	4520	0.0691	0.0846	425
	Valerian	250	4660	0.0691	0.0846	426
100891	Daisy	266.8	4830	0.0648	0.0793	443
100909	Laurel	266.8	4970	0.0648	0.0793	444
	Peony	300	5480	0.0576	0.0706	478
100917	Tulip	336.4	6150	0.0514	0.063	513
148122	Daffodil	350	6390	0.0494	0.0605	526
100925	Canna	397.5	7110	0.0435	0.0534	570
	Goldentuft	450	7890	0.0384	0.0472	616
100933	Cosmos	477	8360	0.0362	0.0445	639
100958	Syringa	477	8690	0.0362	0.0445	639
	Zinnia	500	8760	0.0346	0.0425	658
	Hyacinth	500	9110	0.0346	0.0425	658
100941	Dahlia	556.5	9750	0.0311	0.0382	703
100966	Mistletoe	556.5	9940	0.0311	0.0382	704
157743	Meadowsweet	600	10700	0.0288	0.0355	738
100974	Orchid	636	11400	0.0272	0.0335	765
	Heuchera	650	11600	0.0266	0.0328	775
	Verbena	700	12500	0.0247	0.0305	812
	Flag	700	12900	0.0247	0.0305	812
	Violet	715.5	12800	0.0242	0.0299	823
	Nasturtium	715.5	13100	0.0242	0.0299	823
182618	Petunia	750	13100	0.023	0.0286	847
	Cattail	750	13500	0.023	0.0286	847
100990	Arbutus	795	13900	0.0217	0.027	878
	Lilac	795	14300	0.0217	0.027	879
	Cockscomb	900	15400	0.0192	0.0239	948
	Snapdragon	900	15900	0.0192	0.0239	948
101014	Magnolia	954	16400	0.0181	0.0226	982
101063	Goldenrod	954	16900	0.0181	0.0226	983
	Hawkweed	1000	17200	0.0173	0.0216	1010
	Camellia	1000	17700	0.0713	0.0216	1011
101022	Bluebell	1033.5	17700	0.0167	0.021	1031

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Stock Number	Code Word	Size	Rated Strength	DC Resistance @ 20°C	AC Resistance @ 75°C	Allowable Ampacity†
		AWG or kcmil	lb	Ω/1000ft	Ω/1000ft	amp
	Larkspur	1033.5	18300	0.0167	0.021	1032
	Marigold	1113	19700	0.0155	0.0195	1079
	Hawthorn	1192.5	21100	0.0145	0.0183	1124
101105	Narcissus	1272	22000	0.0136	0.0173	1169
	Columbine	1351.5	23400	0.0128	0.0163	1212
	Carnation	1431	24300	0.0121	0.0155	1253
	Gladiolus	1510.5	25600	0.0114	0.0147	1294
101147	Coreopsis	1590	27000	0.0109	0.0141	1333
182634	Jessamine	1750	29700	0.00988	0.0129	1408
	Cowslip	2000	34200	0.00864	0.0115	1518
	Sagebrush	2250	37500	0.00776	0.0105	1612
182675	Lupine	2500	41900	0.00698	0.00969	1706
	Bitterroot	2750	46100	0.00635	0.009	1793
	Trillium	3000	50300	0.00582	0.00834	1874
	Bluebonnet	3500	58700	0.005	0.00756	2024

† Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 2 ft./sec. in sun.

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