

AAC

ALL ALUMINUM CONDUCTOR



APPLICATIONS

AAC (ALL ALUMINUM CONDUCTOR) WIRE FOR USE IN OVERHEAD POWER TRANSMISSION AND DISTRIBUTION LINES

CONSTRUCTION

ALUMINUM ALLOY 1350 WIRES STRANDED HELICALLY AROUND A CENTRAL WIRE
 CLASS AA FOR BARE CONDUCTORS USED IN OVERHEAD LINES WHERE GREATER FLEXIBILITY REQUIRED
 CLASS A CONDUCTORS COVERED WITH WEATHER RESISTANT MATERIALS

STANDARDS

ASTM B-230: ALUMINUM 1350-H19 WIRE FOR ELECTRICAL PURPOSE
 ASTM B-231: CONCENTRIC LAY STRANDED ALUMINUM 1350 CONDUCTORS

CODE NAME	CONDUCTOR SIZE	STRAND	CLASS	NOM. OD (INCHES)		NOM. WEIGHT (LBS/MFT)	RATED STRENGTH (LBS/MFT)	RESISTANCE OHMS/MFT DC @ 20°	RESISTANCE OHMS/MFT DC @ 75°	ALLOWABLE AMPACITY (AMPS)
				INDIV. WIRE OD	CABLE OD					
PEACHBELL	6	7	A	0.0612	0.184	25	563	0.658	0.805	103
ROSE	4	7	A	0.0772	0.232	39.2	881	0.414	0.506	138
IRIS	2	7	AA,A	0.0974	0.292	62.3	1350	0.260	0.318	185
PANSY	1	7	AA,A	0.1093	0.328	78.5	1640	0.207	0.252	214
POPPY	1/0	7	AA,A	0.1228	0.368	99.1	1990	0.164	0.200	247
ASTER	2/0	7	AA,A	0.1309	0.416	124.9	2510	0.130	0.159	286
PHLOX	3/0	7	AA,A	0.1548	0.464	157.5	3040	0.103	0.126	331
OXLIP	4/0	7	AA,A	0.1739	0.522	198.7	3830	0.082	0.100	383
SNEEZEWORT	250	7	AA	0.1890	0.567	234	4520	0.069	0.085	425
VALERIAN	250	19	A	0.1147	0.574	234.6	4660	0.069	0.085	426
DAISY	266.8	7	AA	0.1953	0.586	250.6	4830	0.065	0.079	443
LAUREL	266.8	19	A	0.1185	0.593	250.4	4970	0.065	0.079	444
PEONY	300	19	A	0.1257	0.628	281	5480	0.058	0.071	478
TULIP	336.4	19	A	0.1331	0.666	316	6150	0.051	0.063	513
DAFFODIL	350	19	A	0.1357	0.679	328.4	6390	0.049	0.061	526
CANNA	397.5	19	AA,A	0.1447	0.724	373.4	7110	0.044	0.053	570
GOLDENTUFT	450	19	AA	0.1539	0.769	447	7890	0.038	0.047	616
COSMOS	477	19	AA	0.1584	0.792	447.5	8360	0.036	0.045	639
SYRINGA	477	37	A	0.1135	0.795	447.4	8690	0.036	0.045	639
ZINNIA	500	19	AA	0.1622	0.811	469.2	8760	0.035	0.043	658
HYACINTH	500	37	A	0.1162	0.813	469	9110	0.035	0.043	658
DAHLIA	556.5	19	AA	0.1711	0.856	522.1	9750	0.031	0.038	703
MISTLETOE	556.5	37	AA,A	0.1226	0.858	522	9940	0.031	0.038	704
MEADOWSWEET	600	37	AA,A	0.1273	0.891	562	10700	0.023	0.036	738
ORCHID	636	37	AA,A	0.1311	0.918	596.4	11400	0.027	0.034	765
HEUCHERA	650	37	AA	0.1325	0.928	609	11600	0.027	0.033	775

DATA SUBJECT TO NORMAL MANUFACTURING TOLERANCES

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				INDIV. WIRE OD	CABLE OD					
VERBENA	700	37	AA	0.1375	0.963	656	12500	0.025	0.031	812
FLAG	700	61	A	0.1071	0.964	656.8	12900	0.025	0.031	812
VIOLET	715.5	37	AA	0.1391	0.974	672	12800	0.024	0.030	823
NASTURTIUM	715.5	61	A	0.1083	0.975	671	13100	0.024	0.030	823
PETUNIA	750	37	AA	0.1424	0.997	703	13100	0.023	0.029	847
CATTAIL	750	61	A	0.1109	0.998	704.3	13500	0.023	0.029	847
ARBUTUS	795	37	AA	0.1466	1.026	746.4	13900	0.022	0.027	878
LILAC	795	61	A	0.1142	1.028	746.7	14300	0.022	0.027	879
COCKSCOMB	900	37	AA	0.1560	1.092	844	15400	0.019	0.024	948
SNAPDRAGON	900	61	A	0.1215	1.093	844	15900	0.019	0.024	948
MAGNOLIA	954	37	AA	0.1606	1.124	895.8	16400	0.018	0.023	982
GOLDENROD	954	61	A	0.1251	1.126	896.1	16900	0.018	0.023	983
HAWKWEEED	1000	37	AA	0.1644	1.151	937	17200	0.017	0.022	1010
CAMELLIA	1000	61	A	0.1280	1.152	938.2	17700	0.017	0.022	1011
BLUEBELL	1033.5	37	AA	0.1672	1.170	970	17700	0.017	0.021	1031
LARKSPUR	1033.5	61	A	0.1302	1.172	970.6	18300	0.017	0.021	1032
MARIGOLD	1113	61	AA,A	0.1351	1.216	1043	19700	0.016	0.020	1079
HAWTHORN	1192.5	61	AA,A	0.1398	1.258	1118	21100	0.015	0.018	1124
NARCISSUS	1272	61	AA,A	0.1444	1.300	1192	22000	0.014	0.017	1169
COLUMBINE	1351.5	61	AA,A	0.1488	1.340	1267	23400	0.013	0.016	1212
CARNATION	1431	61	AA,A	0.1532	1.378	1341	24300	0.012	0.016	1253
GLADIOLUS	1510.5	61	AA,A	0.1574	1.416	1416	25600	0.014	0.015	1294
COREOPSIS	1590	61	AA	0.1614	1.453	1490	27000	0.011	0.014	1333
JESSAMINE	1750	61	AA	0.1694	1.524	1640	29700	0.010	0.013	1408
COWSLIP	2000	91	A	0.1482	1.631	1875	34200	0.009	0.012	1518
SAGEBRUSH	2250	91	A	0.1572	1.730	2130	37500	0.008	0.011	1612
LUPINE	2500	91	A	0.1657	1.823	2366	41900	0.007	0.010	1706
BITTERROOT	2750	91	A	0.1738	1.912	2603	46100	0.006	0.009	1793
TRILLIUM	3000	127	A	0.1537	1.998	2840	50300	0.006	0.008	1874
BLUEBONNET	3500	127	A	0.1660	2.158	3345	58700	0.005	0.008	2024

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