



Alumtek Corporation Technical Catalog

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Technical Catalog For :

AAC

Standard: **ASTM**

Code name	AL/No	Al wire diameter (mm)	St/No	St wire diameter (mm)	Overall diameter (mm)	Cross section (mm ²)	Linear weight (kg/km)	Breaking load (kgf)	Rdc (ohm/km)	Rac (ohm/km):	Rac (ohm/km):	Ampacity at Min tem. A **	Ampacity at Max tem. A **
									20degree C	25degree C	75degree C		
PEACHBELL	7	1.55			4.65	13.21	36	252	2.18278	2.22686	2.66670	91	76
ROSE	7	1.96			5.88	21.12	58	403	1.36509	1.39278	1.66788	124	104
LRIS	7	2.47			7.41	33.54	92	608	0.85957	0.87717	1.05043	169	141
PANSY	7	2.78			8.34	42.49	117	728	0.67855	0.69245	0.82922	197	165
POPPY	7	3.12			9.36	53.52	148	891	0.53872	0.54995	0.65857	230	193
ASTER	7	3.50			10.5	67.35	186	1121	0.42809	0.43725	0.52361	268	225
PHLOX	7	3.93			11.79	84.91	234	1372	0.33954	0.34711	0.41568	312	262
OXLIP	7	4.42			13.26	107.40	296	1735	0.26843	0.27477	0.32904	365	306



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									20degree C	25degree C	75degree C	25	40
VALERIAN	19	2.91			14.55	126.36	348	2098	0.22816	0.23355	0.27967	409	343
SNEEZEWORD	7	4.80			14.4	126.67	349	2046	0.22761	0.23299	0.27901	408	342
LAUREL	19	3.01			15.05	135.20	373	2180	0.21325	0.21867	0.26187	427	358
DAISY	7	4.96			14.88	135.25	373	2185	0.21316	0.21859	0.26176	425	357
PEONY	19	3.19			15.95	151.85	419	2449	0.18986	0.19469	0.23315	461	387
TULIP	19	3.38			16.9	170.48	470	2749	0.16912	0.17383	0.20817	498	417
DAFFODIL	19	3.45			17.25	177.61	490	2864	0.16232	0.16685	0.19981	512	429
CANNA	19	3.67			18.35	200.98	554	3171	0.14345	0.14790	0.17712	555	465



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GOLDENTUFT	19	3.91			19.55	228.13	629	3455	0.12638	0.13082	0.15666	602	505
SYRINGA	37	2.88			20.16	241.03	665	3915	0.11961	0.12382	0.14828	626	525
COSMOS	19	4.02			20.1	241.15	665	3774	0.11955	0.12376	0.14820	625	524
HYACINTH	37	2.95			20.65	252.88	697	4107	0.11401	0.11801	0.14132	646	542
ZINNIA	19	4.12			20.6	253.29	698	3964	0.11382	0.11782	0.14109	646	542
DAHILA	19	4.35			21.75	282.36	778	4419	0.10210	0.10621	0.12718	693	581
MISTLETOE	37	3.11			21.77	281.06	775	4435	0.10258	0.10670	0.12777	692	580
MEADOWSWEET	37	3.23			22.61	303.17	836	4783	0.09510	0.09952	0.11917	725	608



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ORCHID	37	3.33			23.31	322.23	888	5084	0.08947	0.09363	0.11212	755	633
HEUCHERA	37	3.37			23.59	330.02	910	5207	0.08736	0.09142	0.10948	768	644
FLAG	61	2.72			24.48	354.44	977	5856	0.08134	0.08574	0.10267	802	673
VERBENA	37	3.49			24.43	353.94	976	5585	0.08146	0.08586	0.10282	801	672
NASTURTIUM	61	2.75			24.75	362.30	999	5986	0.07958	0.08388	0.10044	814	683
VIOLET	37	3.53			24.71	362.10	998	5713	0.07962	0.08392	0.10050	814	682
CATTAIL	61	2.82			25.38	380.98	1050	6120	0.07567	0.07976	0.09552	842	706
PETUNIA	37	3.62			25.34	380.80	1050	6008	0.07571	0.07980	0.09556	841	705



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LILAC	61	2.90			26.1	402.91	1111	6472	0.07156	0.07607	0.09109	870	730
ARBUTUS	37	3.72			26.04	402.13	1109	6345	0.07169	0.07621	0.09127	869	729
SNAPDRAGON	61	3.09			27.81	457.43	1261	7138	0.06303	0.06767	0.08103	943	790
COCKSCOMB	37	3.96			27.72	455.69	1256	6978	0.06327	0.06792	0.08134	940	788
GOLDENROD	61	3.18			28.62	484.46	1336	7560	0.05951	0.06389	0.07651	980	821
MAGNOLIA	61	3.18			28.62	484.46	1336	7560	0.05951	0.06389	0.07651	980	821
CAMELLIA	61	3.25			29.25	506.03	1395	7896	0.05697	0.06186	0.07408	1003	841
HAWKWEED	37	4.18			29.26	507.73	1400	7775	0.05678	0.06166	0.07384	1005	842



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LARKSPUR	61	3.31			29.79	524.88	1447	8191	0.05493	0.05964	0.07142	1028	862
BLUEBELL	37	4.24			29.68	522.41	1440	8000	0.05519	0.05992	0.07176	1024	858
MARIGOLD	61	3.43			30.87	563.63	1554	8795	0.05115	0.05626	0.06737	1071	898
HAWTHORN	61	3.55			31.95	603.76	1665	9422	0.04775	0.05328	0.06380	1113	933
NARCISSUS	61	3.67			33.03	645.27	1779	10069	0.04468	0.04985	0.05970	1164	976
COLUMBINE	61	3.78			34.02	684.53	1887	10368	0.04212	0.04775	0.05718	1201	1007
CARNATION	61	3.89			35.01	724.95	1999	10980	0.03977	0.04508	0.05399	1248	1046
GLADIOLUS	61	4.00			36	766.53	2113	11610	0.03761	0.04338	0.05195	1284	1076



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COREOPSIS	61	4.10			36.9	805.33	2220	12197	0.03580	0.04207	0.05038	1315	1102
JESSAMINE	61	4.30			38.7	885.82	2442	13416	0.03255	0.03903	0.04673	1388	1163
COWSLIP	91	3.76			41.36	1010.40	2786	15133	0.02853	0.03573	0.04279	1483	1242
SAGEBRUSH	91	3.99			43.89	1137.80	3137	17041	0.02534	0.03247	0.03889	1587	1329
LUPINE	91	4.21			46.31	1266.73	3492	18972	0.02276	0.03060	0.03665	1664	1394
BITTERROOT	91	4.41			48.51	1389.94	3832	20818	0.02074	0.02859	0.03423	1749	1464
TRILLIUM	127	3.90			50.7	1517.09	4183	23411	0.01900	0.02753	0.03297	1809	1514
BLUEBONNET	127	4.22			54.86	1776.26	4897	26604	0.01623	0.02470	0.02958	1961	1640



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Design conditions : **

Wind velocity:	M/S	0.6	Sun absorbtion:	WATTS/M2	1033
Frequency:	HZ	50	Working temp. of conductor:	CENT	75
Min ambinent temp.:	CENT	25	Emissivity:		0.5
Min ambinent temp.:	CENT	40	sea level:	m	1500