



# Alumtek Corporation Technical Catalog

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Technical Catalog For :

**ACSR/GA**

Standard: **ASTM**

Code name	AL/No	Al wire diameter (mm)	St/No	St wire diameter (mm)	Overall diameter (mm)	Cross section (mm <sup>2</sup> )	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		
<b>TURKEY</b>	6	1.68	1	1.68	5.04	15.52	54	538	2.10456	2.14705	2.57114	95	80
<b>THRUSH</b>	6	1.89	1	1.89	5.67	19.64	68	681	1.66286	1.69644	2.03152	111	93
<b>SWAN</b>	6	2.12	1	2.12	6.36	24.71	86	847	1.32163	1.34843	1.61477	129	108
<b>SWANATE</b>	7	1.96	1	2.61	6.53	26.47	100	1074	1.30875	1.33530	1.59904	131	110
<b>SWALLOW</b>	6	2.38	1	2.38	7.14	31.14	108	1041	1.04864	1.06991	1.28124	151	126
<b>SPARROW</b>	6	2.67	1	2.67	8.01	39.19	136	1294	0.83322	0.85028	1.01822	176	147
<b>SPARATE</b>	7	2.47	1	3.30	8.24	42.09	159	1646	0.82389	0.84076	1.00683	178	150
<b>ROBIN</b>	6	3.00	1	3.00	9	49.48	171	1613	0.65999	0.67374	0.80682	205	172



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									20degree C	25degree C	75degree C	25	40
<b>RAVEN</b>	6	3.37	1	3.37	10.11	62.44	216	1974	0.52302	0.53392	0.63938	240	201
<b>QUAIL</b>	6	3.78	1	3.78	11.34	78.55	272	2373	0.41572	0.42461	0.50847	279	234
<b>PIGEON</b>	6	4.25	1	4.25	12.75	99.30	344	3000	0.32885	0.33619	0.40260	326	273
<b>PENGUIN</b>	6	4.77	1	4.77	14.31	125.09	433	3779	0.26106	0.26723	0.32001	380	319
<b>WAXWING</b>	18	3.09	1	3.09	15.45	142.48	431	3087	0.21182	0.21721	0.26011	432	362
<b>OWL</b>	6	5.36	7	1.79	16.09	153.00	509	4380	0.20788	0.21670	0.25950	442	371
<b>PARTRIDGE</b>	26	2.57	7	2.00	16.28	156.86	546	5123	0.20966	0.21950	0.26286	442	371
<b>OSTRICH</b>	26	2.73	7	2.12	17.28	176.89	615	5768	0.18582	0.19453	0.23296	479	402



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<b>MERLIN</b>	18	3.47	1	3.47	17.35	179.68	543	3893	0.16797	0.17265	0.20675	504	423
<b>LINNET</b>	26	2.89	7	2.25	18.31	198.38	690	6401	0.16580	0.17400	0.20837	517	433
<b>ORIOLE</b>	30	2.69	7	2.69	18.83	210.27	785	7897	0.16455	0.17421	0.20863	524	439
<b>CHICKADEE</b>	18	3.77	1	3.77	18.85	212.09	641	4423	0.14230	0.14672	0.17570	562	471
<b>BRANT</b>	24	3.27	7	2.18	19.62	227.68	763	6601	0.14099	0.14780	0.17699	572	480
<b>IBIS</b>	26	3.14	7	2.44	19.88	234.06	814	7349	0.14046	0.14785	0.17706	576	483
<b>LARK</b>	30	2.92	7	2.92	20.44	247.77	923	9209	0.13932	0.14795	0.17717	584	490
<b>PELICAN</b>	18	4.14	1	4.14	20.7	255.76	773	5334	0.11800	0.12215	0.14627	636	533



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									20degree C	25degree C	75degree C	25	40
<b>FLICKER</b>	24	3.58	7	2.39	21.49	272.98	915	7717	0.11762	0.12379	0.14825	645	541
<b>HAWK</b>	26	3.44	7	2.68	21.8	281.13	978	8845	0.11702	0.12367	0.14810	650	545
<b>HEN</b>	30	3.20	7	3.20	22.4	297.56	1110	10725	0.11628	0.12398	0.14847	658	552
<b>OSPREY</b>	18	4.47	1	4.47	22.35	298.16	901	6218	0.10122	0.10529	0.12608	703	589
<b>PARAKEET</b>	24	3.87	7	2.58	23.22	318.89	1069	9004	0.10066	0.10645	0.12748	714	599
<b>DOVE</b>	26	3.72	7	2.89	23.55	328.49	1142	10311	0.10008	0.10627	0.12726	719	603
<b>EAGLE</b>	30	3.46	7	3.46	24.22	347.88	1298	12539	0.09946	0.10721	0.12838	726	609
<b>PEACOCK</b>	24	4.03	7	2.69	24.19	345.91	1160	9777	0.09282	0.09876	0.11827	751	630



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									20degree C	25degree C	75degree C	25	40
<b>SQUAB</b>	26	3.87	7	3.01	24.51	355.63	1237	11029	0.09246	0.09879	0.11830	756	634
<b>WOOD DUCK</b>	30	3.61	7	3.61	25.27	378.70	1413	13159	0.09137	0.09848	0.11794	769	645
<b>TEAL</b>	30	3.61	19	2.16	25.24	376.67	1398	13602	0.09146	0.09880	0.11832	768	644
<b>KINGBIRD</b>	18	4.78	1	4.78	23.9	340.95	1031	7111	0.08852	0.09263	0.11093	766	642
<b>ROOK</b>	24	4.14	7	2.76	24.84	364.94	1223	10305	0.08796	0.09358	0.11207	779	653
<b>GROSBEAK</b>	26	3.97	7	3.09	25.15	374.33	1302	11410	0.08786	0.09387	0.11242	783	656
<b>SCOTER</b>	30	3.70	7	3.70	25.9	397.82	1484	13823	0.08697	0.09375	0.11227	795	667
<b>EGRET</b>	30	3.70	19	2.22	25.9	396.10	1472	14339	0.08705	0.09405	0.11263	794	666



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									20degree C	25degree C	75degree C	25	40
<b>FLAMINGO</b>	24	4.23	7	2.82	25.38	380.98	1277	10758	0.08426	0.08964	0.10735	801	672
<b>GANNET</b>	26	4.07	7	3.16	25.76	393.15	1367	11959	0.08361	0.08932	0.10696	809	678
<b>CROW</b>	54	2.92	7	2.92	26.28	408.48	1369	11748	0.07858	0.08421	0.10085	837	702
<b>STILT</b>	24	4.39	7	2.92	26.32	410.13	1373	11560	0.07823	0.08383	0.10039	839	704
<b>STARLING</b>	26	4.21	7	3.28	26.68	421.07	1465	12845	0.07813	0.08408	0.10069	844	707
<b>REDWING</b>	30	3.92	19	2.35	27.43	444.46	1651	15672	0.07756	0.08440	0.10107	855	717
<b>TERN</b>	45	3.38	7	2.25	27.03	431.59	1337	9940	0.07102	0.07617	0.09121	885	742
<b>CONDOR</b>	54	3.08	7	3.08	27.72	454.47	1523	12680	0.07063	0.07634	0.09142	895	750



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									20degree C	25degree C	75degree C	25	40
<b>CUCKOO</b>	24	4.62	7	3.08	27.72	454.47	1523	12629	0.07063	0.07634	0.09142	895	750
<b>DRAKE</b>	26	4.44	7	3.45	28.11	467.98	1627	14245	0.07025	0.07624	0.09130	902	756
<b>MALLARD</b>	30	4.14	19	2.48	28.96	495.61	1841	17463	0.06954	0.07631	0.09139	916	768
<b>CRANE</b>	54	3.23	7	3.23	29.07	499.82	1675	13945	0.06422	0.07010	0.08395	949	796
<b>RUDDY</b>	45	3.59	7	2.40	28.74	487.16	1510	11155	0.06295	0.06818	0.08165	954	800
<b>CANARY</b>	54	3.28	7	3.28	29.52	515.41	1727	14380	0.06228	0.06798	0.08141	968	812
<b>RAIL</b>	45	3.70	7	2.47	29.61	517.37	1603	11838	0.05926	0.06419	0.07687	994	833
<b>CARDINAL</b>	54	3.38	7	3.38	30.42	547.32	1834	15270	0.05865	0.06402	0.07666	1008	845



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									20degree C	25degree C	75degree C	25	40
<b>ORTLAN</b>	45	3.85	7	2.57	30.81	560.17	1736	12573	0.05473	0.05996	0.07181	1042	873
<b>CURLEW</b>	54	3.52	7	3.52	31.68	593.60	1989	16561	0.05408	0.05970	0.07149	1058	887
<b>BLUEJAY</b>	45	4.00	7	2.66	31.98	604.37	1872	13535	0.05071	0.05627	0.06738	1089	913
<b>FINCH</b>	54	3.65	19	2.19	32.85	636.58	2134	17808	0.05056	0.05662	0.06780	1101	923
<b>BUNTING</b>	45	4.14	7	2.76	33.12	647.62	2007	14525	0.04734	0.05325	0.06377	1133	950
<b>GRACKLE</b>	54	3.77	19	2.27	33.97	679.66	2281	18785	0.04739	0.05380	0.06443	1142	958
<b>BITTERN</b>	45	4.27	7	2.85	34.17	689.04	2135	15465	0.04450	0.05089	0.06094	1171	982
<b>PHEASANT</b>	54	3.90	19	2.34	35.1	726.77	2437	19799	0.04428	0.05111	0.06120	1185	994





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									20degree C	25degree C	75degree C	25	40
<b>DIPPER</b>	45	4.40	7	2.92	35.16	731.09	2263	16353	0.04191	0.04793	0.05740	1218	1021
<b>MARTIN</b>	54	4.02	19	2.41	36.17	772.04	2588	21018	0.04168	0.04362	0.05223	1296	1086
<b>BOBOLINK</b>	45	4.53	7	3.02	36.24	775.39	2402	17391	0.03954	0.04601	0.05509	1256	1053
<b>PLOVER</b>	54	4.14	19	2.48	37.24	818.67	2744	22275	0.03930	0.04615	0.05526	1272	1067
<b>NUTHATCH</b>	45	4.65	7	3.10	37.2	817.01	2531	18117	0.03752	0.04366	0.05229	1301	1090
<b>PARROT</b>	54	4.25	19	2.55	38.25	863.07	2894	23512	0.03729	0.04379	0.05244	1318	1105
<b>LAPWING</b>	45	4.77	7	3.18	38.16	859.72	2664	19064	0.03566	0.04149	0.04969	1346	1128
<b>FALCON</b>	54	4.36	19	2.62	39.26	908.63	3048	24783	0.03543	0.04240	0.05077	1351	1133



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<b>CHUKAR</b>	84	3.70	19	2.22	40.7	976.69	3092	23232	0.03184	0.03862	0.04625	<b>1428</b>	<b>1197</b>

**Design conditions : \*\***

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