



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**AAAC**

Standard:

**BS**

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>ARAUCARIA</b>	61	4.14			37.26	821.12	2266	23470	0.04082	0.04290	0.05137	1307	1095
<b>12</b>	7	1.47			4.41	11.88	32	340	2.79688	2.85335	3.41694	79	66
<b>BOX</b>	7	1.85			5.55	18.82	51	538	1.76589	1.80155	2.15739	107	90
<b>ACACIA</b>	7	2.08			6.24	23.78	65	680	1.39695	1.42529	1.70681	125	105
<b>ALMOND</b>	7	2.34			7.02	30.10	82	860	1.10376	1.12615	1.34859	146	123
<b>CEDAR</b>	7	2.54			7.62	35.47	97	1014	0.93679	0.95597	1.14479	163	137
<b>40</b>	7	2.77			8.31	42.18	115	1206	0.78768	0.80381	0.96257	183	153
<b>FIR</b>	7	2.95			8.85	47.84	131	1368	0.69449	0.70871	0.84869	199	167



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<b>HAZEL</b>	7	3.30			9.9	59.87	164	1711	0.55498	0.56655	0.67845	231	193
<b>PINE</b>	7	3.61			10.83	71.65	196	2048	0.46376	0.47368	0.56724	260	218
<b>85</b>	7	3.91			11.73	84.05	230	2402	0.39533	0.40378	0.48353	289	242
<b>WILLOW</b>	7	4.04			12.12	89.73	245	2565	0.37029	0.37821	0.45292	302	253
<b>100</b>	7	4.19			12.57	96.52	264	2759	0.34425	0.35194	0.42145	317	266
<b>110</b>	7	4.45			13.35	108.87	298	3112	0.30520	0.31201	0.37364	343	288
<b>OAK</b>	7	4.65			13.95	118.87	325	3398	0.27951	0.28611	0.34263	364	305
<b>120</b>	19	2.82			14.1	118.67	326	3392	0.28138	0.28803	0.34492	364	305



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									20degree C	25degree C	75degree C		
<b>MULBERRY</b>	19	3.18			15.9	150.90	415	4313	0.22128	0.22691	0.27173	427	358
<b>ASH</b>	19	3.48			17.4	180.71	497	5165	0.18477	0.18947	0.22690	481	404
<b>ELM</b>	19	3.76			18.8	210.96	580	6030	0.15828	0.16269	0.19482	533	447
<b>POPLAR</b>	37	2.87			20.09	239.36	659	6842	0.13978	0.14412	0.17259	579	486
<b>270</b>	37	3.05			21.35	270.32	744	7727	0.12376	0.12811	0.15342	627	526
<b>SYCAMORE</b>	37	3.23			22.61	303.17	835	8666	0.11035	0.11632	0.13929	671	562
<b>UPAS</b>	37	3.53			24.71	362.10	997	10350	0.09239	0.09663	0.11572	758	636
<b>420</b>	37	3.81			26.67	421.82	1162	12057	0.07931	0.08360	0.10011	836	701



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<b>YEW</b>	37	4.06			28.42	478.99	1319	13691	0.06985	0.07425	0.08892	<b>907</b>	<b>760</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