



Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

AAAC

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		
6	7	1.55			4.65	13.21	36	427	2.53609	2.58730	3.09834	84	71
4	7	1.96			5.88	21.12	58	682	1.58605	1.61822	1.93785	115	96
2	7	2.47			7.41	33.54	92	1084	0.99870	1.01915	1.22045	157	131
0	7	3.11			9.33	53.17	146	1718	0.62995	0.64308	0.77010	213	178
2/0	7	3.50			10.5	67.35	185	2077	0.49738	0.50775	0.60804	249	208
3	7	3.93			11.79	84.91	233	2619	0.39450	0.40293	0.48252	290	243
4/0	7	4.41			13.23	106.92	293	3298	0.31329	0.32028	0.38355	338	283
250	19	2.91			14.55	126.36	347	3955	0.26509	0.27135	0.32494	379	318



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									20degree C	25degree C	75degree C	25	40
300	19	3.19			15.95	151.85	417	4753	0.22059	0.22621	0.27089	428	359
350	19	3.44			17.2	176.58	485	5276	0.18969	0.19452	0.23294	473	397
400	19	3.68			18.4	202.08	554	6038	0.16576	0.17038	0.20403	517	434
450	19	3.90			19.5	226.97	623	6781	0.14759	0.15217	0.18223	558	468
500	19	4.12			20.6	253.29	695	7568	0.13224	0.13635	0.16329	601	503
550	37	3.09			21.63	277.46	761	8498	0.12073	0.12497	0.14966	638	535
600	37	3.23			22.61	303.17	832	9286	0.11049	0.11493	0.13763	675	566
650	37	3.36			23.52	328.06	900	9591	0.10210	0.10621	0.12718	711	596



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									20degree C	25degree C	75degree C	25	40
700	37	3.49			24.43	353.94	971	10348	0.09464	0.09904	0.11860	746	626
750	37	3.61			25.27	378.70	1039	11072	0.08845	0.09256	0.11085	781	654
800	37	3.73			26.11	404.29	1109	11820	0.08285	0.08733	0.10458	813	681
900	37	3.96			27.72	455.69	1250	13323	0.07351	0.07814	0.09358	876	735
1000	37	4.17			29.19	505.30	1386	14773	0.06629	0.07047	0.08439	939	787

Design conditions : **

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