



Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

AAC

Standard:

DIN

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		
16MM2	7	1.70			5.1	15.89	43	289	1.80206	1.83845	2.20158	103	86
25MM2	7	2.10			6.3	24.24	66	432	1.18094	1.20490	1.44289	136	114
35MM2	7	2.50			7.5	34.36	94	589	0.83327	0.85034	1.01830	172	144
50MM2	7	3.00			9	49.48	135	810	0.57866	0.59072	0.70740	219	184
50/1MM2	19	1.80			9	48.35	133	881	0.59512	0.60752	0.72752	216	181
70MM2	19	2.10			10.5	65.81	181	1173	0.43723	0.44658	0.53479	265	222
95MM2	19	2.50			12.5	93.26	256	1599	0.30851	0.31539	0.37769	334	280
120MM2	19	2.80			14	116.99	322	1961	0.24594	0.25175	0.30148	388	326



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									20degree C	25degree C	75degree C	25	40
150MM2	37	2.25			15.75	147.11	405	2580	0.19597	0.20096	0.24065	452	379
185MM2	37	2.50			17.5	181.62	500	3115	0.15874	0.16277	0.19493	520	436
240MM2	61	2.25			20.25	242.53	670	4030	0.11922	0.12341	0.14778	628	526
300MM2	61	2.50			22.5	299.42	827	4865	0.09657	0.10045	0.12029	721	604
400MM2	61	2.89			26.01	400.13	1105	6207	0.07226	0.07682	0.09199	865	725
500MM2	61	3.23			29.07	499.82	1381	7616	0.05785	0.06282	0.07522	993	833
625MM2	91	2.96			32.56	626.18	1733	9714	0.04627	0.05162	0.06182	1138	954
800MM2	91	3.35			36.85	802.06	2226	12222	0.03623	0.04258	0.05099	1307	1095



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1000MM2	91	3.74			41.14	999.68	2767	14866	0.02898	0.03549	0.04250	1485	1244

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