



Alumtek Corporation Technical Catalog

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Technical Catalog For :

AAAC

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	453	2.09127	2.13350	2.55490	96	80
25MM2	7	2.10			6.3	24.24	66	691	1.37047	1.39827	1.67445	127	106
35MM2	7	2.50			7.5	34.36	94	979	0.96700	0.98715	1.18213	160	134
50MM2	7	3.00			9	49.48	135	1409	0.67153	0.68552	0.82092	203	170
50MM2-1	19	1.80			9	48.35	133	1377	0.69063	0.70502	0.84427	201	168
70mm2	19	2.10			10.5	65.81	181	1875	0.50740	0.51797	0.62028	246	206
95MM2	19	2.50			12.5	93.26	256	2657	0.35802	0.36601	0.43831	310	260
120MM2	19	2.80			14	116.99	322	3333	0.28541	0.29178	0.34941	361	303



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									20degree C	25degree C	75degree C	25	40
150MM2	37	2.25			15.75	147.11	405	4191	0.22742	0.23279	0.27877	420	352
185MM2	37	2.50			17.5	181.62	500	5174	0.18421	0.18890	0.22621	483	405
240MM2	61	2.25			20.25	242.53	670	6909	0.13835	0.14265	0.17082	584	489
300MM2	61	2.50			22.5	299.42	827	8530	0.11206	0.11600	0.13891	671	562
400MM2	61	2.89			26.01	400.13	1105	11398	0.08386	0.08839	0.10585	807	676
500MM2	61	3.23			29.07	499.82	1381	14238	0.06713	0.07137	0.08546	932	781
625MM2	91	2.96			32.56	626.18	1733	17838	0.05369	0.05830	0.06981	1071	898
800MM2	91	3.35			36.85	802.06	2220	22848	0.04192	0.04752	0.05691	1237	1036



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1000MM2	91	3.74			41.14	999.68	2767	28477	0.03367	0.04037	0.04835	1393	1166

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