



Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

ACSR/GA

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		
16/2.5	6	1.80	1	1.80	5.4	17.81	62	569	1.83324	1.87026	2.23967	104	87
25/4	6	2.25	1	2.25	6.75	27.83	96	873	1.17328	1.19707	1.43352	140	117
35/6	6	2.70	1	2.70	8.1	40.08	139	1230	0.81477	0.83146	0.99569	178	150
44/32	14	2.00	7	2.40	11.2	75.65	370	4405	0.59320	0.66080	0.79132	233	195
50/8	6	3.20	1	3.20	9.6	56.30	195	1664	0.58005	0.59213	0.70909	224	187
50/30	12	2.33	7	2.33	11.65	81.01	375	4310	0.51897	0.56902	0.68141	252	211
70/12	26	1.85	7	1.44	11.72	81.29	282	2576	0.40325	0.42048	0.50353	286	240
95/15	26	2.15	7	1.67	13.61	109.72	381	3408	0.29866	0.31167	0.37323	350	293



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95/55	12	3.20	7	3.20	16	152.80	707	7771	0.27514	0.30211	0.36178	385	323
105/75	14	3.10	19	2.25	17.45	181.21	886	10367	0.24716	0.27850	0.33350	418	350
120/20	26	2.44	7	1.90	15.46	141.42	491	4354	0.23181	0.24225	0.29009	414	347
120/70	12	3.60	7	3.60	18	193.39	895	9535	0.21740	0.23901	0.28622	450	377
125/30	30	2.33	7	2.33	16.31	157.76	587	5656	0.21825	0.23007	0.27552	434	364
150/25	26	2.70	7	2.10	17.1	173.10	601	5267	0.18933	0.19819	0.23734	473	397
170/40	30	2.70	7	2.70	18.9	211.84	788	7461	0.16253	0.17205	0.20603	528	442
185/30	26	3.00	7	2.33	18.99	213.62	741	6422	0.15336	0.16092	0.19270	544	456



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									20degree C	25degree C	75degree C	25	40
210/35	26	3.20	7	2.49	20.27	243.18	844	7260	0.13479	0.14188	0.16990	592	496
210/50	30	3.00	7	3.00	21	261.53	973	8938	0.13165	0.13979	0.16740	606	509
230/30	24	3.50	7	2.33	20.99	260.75	870	7081	0.12258	0.12899	0.15446	627	526
240/40	26	3.45	7	2.68	21.84	282.53	980	8377	0.11596	0.12254	0.14674	653	548
265/35	24	3.74	7	2.49	22.43	297.74	994	8036	0.10735	0.11351	0.13593	683	573
300/50	26	3.86	7	3.00	24.44	353.72	1227	10241	0.09264	0.09896	0.11851	755	633
305/40	54	2.68	7	2.68	24.12	344.09	1151	9621	0.09309	0.09904	0.11860	750	629
340/30	48	3.00	7	2.33	24.99	369.13	1170	8968	0.08404	0.08894	0.10650	798	669



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380/50	54	3.00	7	3.00	27	431.17	1442	11715	0.07429	0.07961	0.09533	868	728
385/35	48	3.20	7	2.49	26.67	420.11	1332	10106	0.07386	0.07873	0.09428	867	727
435/55	54	3.20	7	3.20	28.8	490.58	1640	13203	0.06529	0.07057	0.08450	943	791
450/40	48	3.45	7	2.68	28.74	488.19	1548	11645	0.06354	0.06899	0.08262	950	797
490/65	54	3.40	7	3.40	30.6	553.82	1852	14810	0.05784	0.06385	0.07646	1012	848
550/70	54	3.60	7	3.60	32.4	620.89	2076	16328	0.05159	0.05769	0.06908	1085	910
560/50	48	3.86	7	3.00	32.16	611.16	1938	14282	0.05076	0.05646	0.06761	1091	914
680/85	54	4.00	19	2.40	36	764.52	2550	20347	0.04181	0.04825	0.05778	1230	1031



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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