



Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

ACSR/GA

Standard:

BS

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		
MOLE	6	1.50	1	1.50	4.5	12.37	43	411	2.63987	2.69317	3.22513	82	69
SQUIRREL	6	2.11	1	2.11	6.33	24.48	85	787	1.33414	1.36120	1.63006	129	108
GOPHER	6	2.36	1	2.36	7.08	30.62	106	956	1.06645	1.08808	1.30300	149	125
WEASEL	6	2.59	1	2.59	7.77	36.88	128	1130	0.88545	0.90358	1.08206	169	141
FOX	6	2.79	1	2.79	8.37	42.79	148	1311	0.76306	0.77868	0.93249	186	156
FERRET	6	3.00	1	3.00	9	49.48	171	1516	0.65997	0.67348	0.80651	205	172
RABBIT	6	3.35	1	3.35	10.05	61.70	214	1829	0.52927	0.54029	0.64701	238	199
MINK	6	3.66	1	3.66	10.98	73.64	255	2171	0.44341	0.45289	0.54234	267	224



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SKUNK	12	2.59	7	2.59	12.95	100.10	463	5109	0.42001	0.46076	0.55176	290	243
BEAVER	6	3.99	1	3.99	11.97	87.52	303	2566	0.37309	0.38107	0.45634	300	251
HORSE	12	2.79	7	2.79	13.95	116.16	537	5928	0.36195	0.39706	0.47549	321	269
RACoon	6	4.10	1	4.10	12.3	92.42	320	2709	0.35334	0.36123	0.43258	311	261
OTTER	6	4.22	1	4.22	12.66	97.90	339	2870	0.33353	0.34098	0.40833	323	271
CAT	6	4.50	1	4.50	13.5	111.33	386	3264	0.29332	0.29986	0.35909	352	295
HARE	6	4.72	1	4.72	14.16	122.48	424	3580	0.26661	0.27291	0.32681	375	314
DOG	6	4.72	7	1.57	14.15	118.53	394	3167	0.26811	0.27895	0.33405	374	313



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									20degree C	25degree C	75degree C	25	40
HYENA	7	4.39	7	1.93	14.57	126.43	451	3984	0.26318	0.27602	0.33054	381	319
LEOPARD	6	5.28	7	1.75	15.81	148.21	492	3949	0.21432	0.22336	0.26748	433	363
COYOTE	26	2.54	7	1.91	15.89	151.80	521	4450	0.21443	0.22417	0.26845	434	364
COUGAR	18	3.05	1	3.05	15.25	138.81	419	3003	0.21717	0.22270	0.26669	425	356
TIGER	30	2.36	7	2.36	16.52	161.85	602	5620	0.21273	0.22466	0.26903	441	370
WOLF	30	2.59	7	2.59	18.13	194.93	725	6708	0.17663	0.18697	0.22391	499	419
PINGO	18	3.35	1	3.35	16.75	167.46	506	3510	0.18000	0.18502	0.22156	481	403
LYNX	30	2.79	7	2.79	19.53	226.20	841	7730	0.15221	0.16113	0.19295	551	462



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CARACAL	18	3.61	1	3.61	18.05	194.47	588	4040	0.15501	0.15933	0.19080	532	446
PANTHER	30	3.00	7	3.00	21	261.53	973	8938	0.13165	0.13979	0.16740	606	509
LION	30	3.18	7	3.18	22.26	293.85	1093	9734	0.11717	0.12491	0.14958	654	549
BEAR	30	3.35	7	3.35	23.45	326.11	1213	10777	0.10558	0.11310	0.13544	700	587
GOAT	30	3.71	7	3.71	25.97	399.97	1488	13155	0.08608	0.09277	0.11110	799	671
SHEEP	30	3.99	7	3.99	27.93	462.62	1721	15143	0.07442	0.08079	0.09675	878	736
ANTELOPE	54	2.97	7	2.97	26.73	422.59	1394	11482	0.07445	0.07975	0.09550	865	725
BISON	54	3.00	7	3.00	27	431.17	1423	11524	0.07297	0.07817	0.09360	876	735



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JAGUAR	18	3.86	1	3.86	19.3	222.33	672	4578	0.13558	0.14291	0.17113	574	481
DEER	30	4.27	7	4.27	29.89	529.83	1971	17302	0.06498	0.07114	0.08520	957	803
ZEBRA	54	3.18	7	3.18	28.62	484.46	1599	12782	0.06494	0.07016	0.08402	943	791
ELK	30	4.50	7	4.50	31.5	588.44	2189	19216	0.05851	0.06469	0.07747	1022	857
CAMEL	54	3.35	7	3.35	30.15	537.65	1774	14139	0.05852	0.06385	0.07646	1006	844
MOOSE	54	3.53	7	3.53	31.77	596.98	1970	15597	0.05270	0.05816	0.06965	1073	900



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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