



Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

ACSR/AW

Standard:

BS-S

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		
FOX	6	2.79	1	2.79	8.37	42.79	141	1359	0.74036	0.75552	0.90475	189	159
MINK	6	3.66	1	3.66	10.98	73.64	243	2221	0.43022	0.43942	0.52621	271	227
SHUNK	12	2.59	7	2.59	12.95	100.10	419	5419	0.38235	0.45510	0.54499	304	255
BEAVER	6	3.99	1	3.99	11.97	87.52	288	2582	0.36200	0.36974	0.44277	304	255
RACCOON	6	4.09	1	4.09	12.27	91.96	303	2713	0.34451	0.35220	0.42176	314	264
OTTER	6	4.22	1	4.22	12.66	97.90	323	2838	0.32361	0.33083	0.39618	328	275
CAT	6	4.50	1	4.50	13.5	111.33	367	3163	0.28459	0.29094	0.34841	357	299
HARE	6	4.72	1	4.72	14.16	122.48	404	3419	0.25868	0.26479	0.31709	380	319



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									20degree C	25degree C	75degree C	25	40
HYENA	7	4.39	7	1.93	14.57	126.43	426	4068	0.25421	0.27460	0.32884	387	325
LEOPARD	6	5.28	7	1.75	15.81	148.21	472	4033	0.20934	0.22255	0.26651	438	367
TIGER	30	2.36	7	2.36	16.52	161.85	567	5806	0.20499	0.22438	0.26870	450	377
COYOTE	26	2.54	7	1.91	15.89	151.80	498	4518	0.20908	0.22384	0.26805	439	368
LION	30	3.18	7	3.18	22.26	293.85	1030	10294	0.11290	0.12475	0.14939	666	559
BEAR	30	3.35	7	3.35	23.45	326.11	1143	11193	0.10173	0.11296	0.13527	713	598
BATANG	18	4.78	7	1.68	24.16	338.52	998	6704	0.08825	0.09364	0.11214	770	646
GOAT	30	3.71	7	3.71	25.97	399.97	1402	13155	0.08295	0.09333	0.11176	811	681



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									20degree C	25degree C	75degree C	25	40
ANTELOPE	54	2.97	7	2.97	26.73	422.59	1358	11594	0.07417	0.08181	0.09797	863	723
SHEEP	30	3.99	7	3.99	27.93	462.62	1622	15145	0.07172	0.08138	0.09745	891	747
BISON	54	3.00	7	3.00	27	431.17	1386	11688	0.07269	0.08018	0.09602	874	733
DEER	30	4.27	7	4.27	29.89	529.83	1857	16961	0.06262	0.07176	0.08593	970	814
CAMEL	54	3.35	7	3.35	30.15	537.65	1728	14325	0.05830	0.06568	0.07865	1002	841
ELK	30	4.50	7	4.50	31.5	588.44	2063	18467	0.05638	0.06535	0.07826	1035	868
MOOSE	54	3.53	7	3.53	31.77	596.98	1919	15572	0.05250	0.05992	0.07175	1068	896



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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 ambinent temp.:	CENT	25	Emissivity:		0.5
Min ambinent temp.:	CENT	40	sea level:	m	1500