



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**AAC**

Standard:

**BS**

Code name	AL/No	Al wire diameter (mm)	St/No	St wire diameter (mm)	Overall diameter (mm)	Cross section (mm <sup>2</sup> )	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		
<b>MIDGE</b>	7	2.06			6.18	23.33	64	407	1.22725	1.25214	1.49947	133	111
<b>APHIS</b>	3	3.35			10.05	26.44	72	420	1.08286	1.10482	1.32304	166	139
<b>GNAT</b>	7	2.21			6.63	26.85	74	468	1.06631	1.08794	1.30283	146	122
<b>WEEVIL</b>	3	3.66			10.98	31.56	86	495	0.90716	0.92573	1.10858	187	157
<b>MOSQUITO</b>	7	2.59			7.77	36.88	101	615	0.77637	0.79227	0.94876	180	151
<b>LADYBIRD</b>	7	2.79			8.37	42.79	117	701	0.66905	0.68275	0.81761	199	167
<b>ANT</b>	7	3.10			9.3	52.83	145	845	0.54193	0.55322	0.66249	229	192
<b>FLY</b>	7	3.40			10.2	63.55	174	1010	0.45052	0.46015	0.55104	259	217



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**AAC**

Standard:

**BS**

Code name	AL/No	Al wire diameter (mm)	St/No	St wire diameter (mm)	Overall diameter (mm)	Cross section (mm <sup>2</sup> )	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		
<b>BLUEBOTTLE</b>	7	3.66			10.98	73.64	202	1156	0.38878	0.39710	0.47553	285	239
<b>EARWING</b>	7	3.78			11.34	78.55	215	1218	0.36449	0.37228	0.44582	298	250
<b>GRASSHOPPER</b>	7	3.91			11.73	84.05	230	1303	0.34065	0.34826	0.41704	311	261
<b>CLEGG</b>	7	4.17			12.51	95.60	262	1482	0.29950	0.30618	0.36666	339	284
<b>WASP</b>	7	4.39			13.17	105.95	290	1632	0.27023	0.27662	0.33125	363	304
<b>BEETLE</b>	19	2.67			13.35	106.38	293	1773	0.27048	0.27686	0.33155	365	306
<b>BEE</b>	7	4.90			14.7	132.00	361	2034	0.21691	0.22243	0.26636	420	352
<b>CRICKET</b>	7	5.39			16.17	159.72	437	2461	0.17926	0.18426	0.22066	476	399



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**AAC**

Standard:

**BS**

Code name	AL/No	Al wire diameter (mm)	St/No	St wire diameter (mm)	Overall diameter (mm)	Cross section (mm <sup>2</sup> )	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		
<b>HORNET</b>	19	3.25			16.25	157.61	434	2520	0.18255	0.18764	0.22470	473	396
<b>CATERPILLAR</b>	19	3.53			17.65	185.94	512	2919	0.15475	0.15906	0.19048	528	443
<b>CHAFER</b>	19	3.78			18.9	213.21	587	3305	0.13490	0.13909	0.16657	578	484
<b>SPIDER</b>	19	3.99			19.95	237.56	654	3683	0.12112	0.14172	0.16971	583	489
<b>COCKROACH</b>	19	4.22			21.1	265.74	731	4120	0.10827	0.11262	0.13487	666	558
<b>BUTTERFLY</b>	19	4.65			23.25	322.65	888	4971	0.08918	0.09332	0.11176	756	634
<b>MOTH</b>	19	5.00			25	373.05	1027	5747	0.07713	0.08130	0.09735	830	696
<b>DRONE</b>	37	3.58			25.06	372.43	1027	5846	0.07741	0.08159	0.09771	829	695



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**AAC**

Standard:

**BS**

Code name	AL/No	Al wire diameter (mm)	St/No	St wire diameter (mm)	Overall diameter (mm)	Cross section (mm <sup>2</sup> )	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		
<b>LOCUST</b>	19	5.36			26.8	428.71	1180	6605	0.06712	0.07135	0.08544	907	760
<b>CENTIPEDE</b>	37	3.78			26.46	415.20	1145	6437	0.06944	0.07381	0.08839	888	744
<b>MAYBUG</b>	37	4.09			28.63	486.10	1340	7536	0.05931	0.06367	0.07625	982	823
<b>SCORPION</b>	37	4.27			29.89	529.83	1461	8162	0.05441	0.05908	0.07075	1034	867
<b>CICADA</b>	37	4.65			32.55	628.33	1732	9680	0.04588	0.05120	0.06131	1143	958
<b>TARANTULA</b>	37	5.23			36.61	794.84	2191	12245	0.03627	0.04263	0.05105	1303	1092



# Alumtek Corporation Technical Catalog

www.alumtekcorp.com

Technical Catalog For :

**AAC**

Standard:

**BS**

Code name	AL/No	Al wire diameter (mm)	St/No	St wire diameter (mm)	Overall diameter (mm)	Cross section (mm <sup>2</sup> )	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	25	40

**Design conditions : \*\***

<b>Wind velocity:</b>	<b>M/S</b>	0.6	<b>Sun absorbtion:</b>	<b>WATTS/M2</b>	1033
<b>Frequency:</b>	<b>HZ</b>	50	<b>Working temp. of conductor:</b>	<b>CENT</b>	75
<b>Min ambient temp.:</b>	<b>CENT</b>	25	<b>Emissivity:</b>		0.5
<b>Min ambient temp.:</b>	<b>CENT</b>	40	<b>sea level:</b>	<b>m</b>	1500