

**DIMENSIONS & WEIGHTS**

**ALL ALUMINIUM CONDUCTOR (A.A. C)**

Code Name	Nominal Copper area	Equivalent nominal Aluminium area in	Calculated resistance at 20 0 C	Current rating		Standing & Wire Dia-meter (mm) Aluminium	Conductor diameter.	Conductor Area	Approximate Weight	Ultimate tensile Strength
				Still air	Wind vel. 2km/h					
	Sq. mm.	Sq.mm.	Ohms/Km	Amp.	Amp.	NO/Dia	(mm)	Sq.mm	Kg/Km	Kg.
-	7.5	12.23	2.33	42	80	7/1.50	4.50	12.37	34	220
ROSE	13	20.89	1.36	75	130	7/1.96	5.88	21.12	58	385
GNAT	16	26.56	1.07	85	140	7/2.21	6.63	26.85	73	485
-	20	32.37	0.88	100	160	7/2.44	7.32	32.73	89	580
LADYBIRD	25	42.33	0.67	120	190	7/2.79	8.37	42.80	117	737
ANT	30	52.26	0.54	135	215	7/3.10	9.30	52.85	114	892
FLY	40	62.86	0.45	155	240	7/3.40	10.20	63.55	174	1,051
BLUEBOTTEL	45	72.84	0.39	174	266	7/3.66	10.95	73.65	201	1,203
EARWIG	48	77.70	0.37	180	275	7/3.78	11.34	78.55	215	1,272
GRASS-HOPPER	50	83.13	0.34	190	290	7/3.91	11.73	84.05	230	1,356
CLEGG	60	94.56	0.30	207	313	7/4.17	12.51	95.60	261	1,523
WASP	65	104.80	0.27	220	330	7/4.39	13.17	106.00	290	1,673
-	80	132.20	0.22	255	375	19/3.00	15.00	134.30	369	1,228
-	90	148.50	0.19	280	405	19/3.18	15.90	150.90	414	2,484
CATERPILLER	110	183.00	0.16	303	466	19/3.53	17.65	186.00	511	2,985

**DIMENSIONS & WEIGHTS**

**ALL ALUMINIUM CONDUCTOR STEEL REINFORCED (A.C.S.R.)**

Conductor	Electrical Properties						Mechanical Properties				
	Code Name	Equivalent	Equivalent nominal Aluminium	Calculated resistance at 20 0 C d.c.	Current rating in still air	Standing & Wire diameter (mm)	Overall cond. dia	Approximate Weight Kg/Km			Ultimate tensile Strength
	Sq. mm.	Sq.mm.	Ohms/Km	Amp.	NO/Dia	NO/Dia		(mm)	A1	Steel	
SQUIRREL	13	20.71	1.3740	76	6/2.11	1/2.11	6.33	58	27	85	711
GOPHER	16	25.91	1.0980	85	6/2.35	1/2.36	7.09	72	34	106	952
WEASEL	20	31.21	0.9116	95	6/2.59	1/2.59	7.77	87	41	128	1,136
FERRET	25	41.87	0.6795	115	6/3.00	1/3.00	9.00	116	55	171	1,503
RABBIT	30	52.21	0.5449	135	6/3.35	1/3.35	10.05	145	69	214	1,860
MINK	40	62.32	0.4565	165	6/3.66	1/3.66	11.00	173	82	255	2,207
BEAVER	45	74.07	0.3841	176	6/6.99	1/3.99	12.00	206	98	304	2,613
RACCOON	48	77.83	0.3656	180	6/4.09	1/4.09	12.30	215	103	318	2,746
OTTER	50	82.85	0.3434	185	6/4.22	1/4.22	12.60	230	109	339	2,923
CAT	55	94.21	0.3020	195	6/4.50	1/4.50	13.50	261	124	385	3,324
DOG	65	103.6	0.2745	205	6/4.72	7/1.57	14.20	288	106	394	3,299
LEOPARD	80	129.7	0.2193	275	6/5.28	7/1.76	15.85	360	133	493	4,137
COYOTE	80	128.5	0.2214	260	26/2.54	7/1.90	16.86	365	156	521	4,638
TIGER	80	128.1	0.2221	265	30/2.36	7/2.36	16.50	363	241	604	5,758

WOLF	95	154.3	0.1844	305	30/2.59	7/2.59	18.10	436	291	727	6,880
LYNX	110	179.0	0.1589	335	30/2.79	7/2.79	19.60	507	338	845	7,950
PANTHER	130	207.0	0.1375	370	30/3.00	7/3.00	21.00	586	390	976	9,127
LION	140	232.5	0.1223	405	30/3.18	7/3.18	22.30	659	438	1097	10,210
BEAR	160	258.1	0.1102	430	30/3.35	7/3.35	22.90	734	485	1219	11,310