

# ALL ALUMINIUM ALLOY CONDUCTOR (AAAC)

AS PER BS 3242: 1970/IS 398 PART IV

CODE	NOMINAL ALUMINIUM AREA	EQUIVALENT COPPER AREA	STRANDING AND WIRE DIAMETER	APPROX. OVERALL DIAMETER	TOTAL	WEIGHT	NOMINAL BREAKING LOAD	MAXIMUM DC RESISTANCE AT 200 C
	mm <sup>2</sup>	mm <sup>2</sup>	mm	mm	mm <sup>2</sup>	Kg/Km	Kgf	Ohm/Km
Box	15	9.68	7/1.85	5.55	18.81	51	536	1.750
Acacia	20	12.9	7/2.08	6.24	23.78	65	684	1.384
Almond	25	16.1	7/2.34	7.02	30.10	82	862	1.094
Cedar	30	19.4	7/2.54	7.62	35.47	97	1015	0.9281
-	35	22.6T	7/2.77	8.31	42.18	115	1206	0.7803
Fir	40	25.8	7/2.95	8.85	47.84	131	1366	0.6880
Hazel	50	32.3	7/3.30	9.90	59.87	164	1713	0.5498
Pine	60	38.7	7/3.61	10.83	71.65	196	2050	0.4593
-	70	45.2	7/3.91	11.73	84.05	230	2404	0.3916
Willow	80	48.4	7/4.04	12.12	89.73	246	2568	0.3668
-	90	51.6	7/4.19	12.57	96.51	264	2759	0.3410
-	100	58.1	7/4.45	13.35	108.8	298	3110	0.3026
Oak	100	64.5	7/4.65	13.95	118.9	325	3396	0.2769
-	100	64.5	19/2.82	14.31	118.8	326	3391	0.2787
Mulberry	125	80.6	19/3.18	15.9	151.1	415	4312	0.2190
Ash	150	96.8	19/3.48	17.4	180.7	497	5165	0.1830
Elm	175	113.0	19/3.76	18.8	211.0	580	6029	0.1568
Poplar	200	129.0	37/2.87	20.09	239.0	658	6840	0.1385
-	225	145.0	37/3.05	21.35	270.8	745	7725	0.1226
Sycamore	250	161.0	37/3.23	22.61	303.0	835	8664	0.1094
Upas	300	194.0	37/3.53	24.71	362.1	997	10350	0.09155
-	350	226.0	37/3.81	26.67	421.8	1162	12055	0.07860



# ALL ALUMINIUM CONDUCTOR (AAC)

AS PER BS 215: PART I/IS 398: PART I

CODE	NOMINAL ALUMINIUM AREA	EQUIVALENT COPPER AREA	STRANDING AND WIRE DIAMETER	APPROX. OVERALL DIAMETER	TOTAL	WEIGHT	NOMINAL BREAKING LOAD	MAXIMUM DC RESISTANCE AT 200 C
	mm <sup>2</sup>	mm <sup>2</sup>	mm	mm	mm <sup>2</sup>	Kg/Km	Kgf	Ohm/Km
Weevil	30	19.4	3/3.66	7.9	31.6	86	496	0.9082
Ladybird	40	25.8	7/2.79	8.4	42.8	117	701	0.6687
Ant	50	32.3	7/3.10	9.3	52.8	145	846	0.5419
Fly	60	38.7	7/3.40	10.2	63.6	174	1010	0.4505
Bluebottle	70	45.2	7/3.66	11.0	73.7	202	1156	0.3884
Grasshopper	80	51.6	7/3.91	11.7	84.1	230	1303	0.3405
Clegg	90	58.1	7/4.17	12.5	95.6	262	1482	0.2994
Wasp	100	64.5	7/4.39	13.2	106.0	290	1632	0.2700
Bee	125	80.6	7/4.90	14.7	132.0	361	2033	0.2167
Cricket	150	96.8	7/5.36	16.1	157.9	432	2432	0.1812
Homert	150	96.8	19/3.25	16.3	157.6	434	2519	0.1825
Caterpillar	175	113.0	19/3.53	17.7	186.0	512	2920	0.1547
Chafer	200	129.0	19/3.78	18.9	213.2	587	3304	0.1349
Spider	225	145.0	19/3.99	20.0	237.6	652	3672	0.1211
Cockroach	250	161.0	19/4.22	21.1	265.7	731	4120	0.10830
Butterfly	300	194.0	19/4.65	23.3	322.7	888	4966	0.08912
Moth	350	226.0	19/5.00	25.0	373.2	1027	5748	0.07709
Centipede	400	258.0	37/3.78	26.5	415.2	1145	6434	0.06944

