

**All Aluminium Alloy Conductor (AAAC)
BS 3242**

Code	Al nominal area	Cu nominal area equivalent	Total area	Stranding	Overall diameter	Approx. weight
	mm ²	mm ²	mm ²	No./mm	mm	kg/km
-	-	6.45	11.7	7/1.47	4.41	32
Box	-	9.68	18.8	7/1.85	5.55	51
Acacia	-	12.9	21.9	7/2.08	6.24	65
Almond	25	16.1	30.1	7/2.34	7.02	81
Ceda	30	19.4	35.5	7/2.54	7.62	96
-	40	22.6	42.2	7/2.77	8.31	114
Fir	50	25.8	47.8	7/2.95	8.85	129
Hazel	100	32.3	59.9	7/3.30	9.9	162
Pine	-	38.7	71.7	7/3.61	10.83	194
-	-	45.2	84.1	7/3.91	11.73	227
Willow	150	48.4	89.8	7/4.04	12.12	243
-	175	51.6	96.5	7/4.19	12.57	261
-	300	58.1	108.8	7/4.45	13.35	294
Oak	-	64.5	118.9	7/4.65	13.95	321
-	-	80.6	118.8	19/2.82	14.1	321
Mulberry	-	96.8	151.1	19/3.18	15.9	408
Ash	-	113	180.7	19/3.48	17.4	488
Elm	-	129	211	19/3.76	18.8	570
Poplar	-	145	239	37/2.87	20.09	646
-	-	161	270.8	37/3.05	21.35	732
Sycamore	-	194	303	37/3.23	22.61	818
Upas	-	226	362.1	37/3.53	24.71	979
-	-	258	421.8	37/3.81	26.47	1140
Yew	-	-	479.9	37/4.06	28.42	1297

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**All Aluminium Alloy Conductor (AAAC)
BS EN 50182**

Code	Stranding	Nominal area	Overall diameter	Approx. weight	Rated strength	Electrical resistance
	No./mm	mm ²	mm	kg/km	kN	Ω/km
Box	7/1.85	18.8	5.55	50	5.55	1.7480
Acacia	7/2.08	23.8	6.24	64	7.02	1.3828
Almond	7/2.34	30.1	7.02	81	8.88	1.0926
Cedar	7/2.54	35.5	7.62	95	10.46	0.9273
Deodar	7/2.77	42.2	8.31	113	12.44	0.7797
Fir	7/2.95	47.8	8.85	128	14.11	0.6875
Hazel	7/3.30	59.9	9.9	160	17.66	0.5494
Pine	7/3.61	71.6	10.83	192	21.14	0.4591
Holly	7/3.91	84.1	11.73	225	24.79	0.3913
Willow	7/4.04	89.7	12.12	240	26.47	0.3665
Oak	7/4.65	118.9	13.95	318	35.07	0.2767
Mulberry	19/3.18	150.9	15.9	406	44.52	0.2192
Ash	19/3.48	180.7	17.4	486	53.31	0.1830
Elm	19/3.76	211	18.8	568	62.24	0.1568
Poplar	37/2.87	239.4	20.09	646	70.61	0.1387
Sycamore	37/3.23	303.2	22.61	818	89.4	0.1095
Upas	37/3.53	362.1	24.71	978	106.82	0.0917
Yew	37/4.06	479	28.42	1293	141.31	0.0693
Totara	37/4.14	498.1	28.98	1345	146.93	0.0666
Rubus	61/3.50	586.9	31.5	1590	173.13	0.0567
Sorbus	61/3.71	659.4	33.39	1786	194.53	0.0505
Araucaria	61/4.14	821.1	37.26	2224	242.24	0.0406
Redwood	61/4.56	996.2	41.04	2698	293.88	0.0334

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All Aluminium Alloy Conductor (AAAC) IEC 61089						
Code	Stranding	Nominal area	Overall diameter	Approx. weight	Rated strength	Electrical resistance
	mm ²	mm ²	mm	kg/km	kN	Ω/km
16	18	18.4	5.49	49	5.43	1.7896
25	29	28.8	6.87	77	8.49	1.1453
40	46	46	8.67	123	13.58	0.7158
63	72.5	72.5	10.89	194	21.39	0.4545
100	115	115	13.9	310	33.95	0.2877
125	144	144	15.5	387	42.44	0.2302
160	184	184	17.55	496	54.32	0.1798
200	230	230	19.65	620	67.91	0.1439
250	288	288	21.95	775	84.88	0.1151
315	363	363	24.71	979	106.95	0.0916
400	460	460	27.86	1243	135.81	0.0721
450	518	518	29.54	1398	152.79	0.0641
500	575	575	31.15	1554	169.76	0.0577
560	645	645	33.03	1743	190.14	0.0516
630	725	725	35.01	1961	213.9	0.0458
710	817	817	37.17	2210	241.07	0.0407
800	921	921	39.42	2490	271.62	0.0361
900	1036	1036	41.91	2804	305.58	0.0321
1000	1151	1151	44.11	3115	339.53	0.0289
1120	1289	1289	46.75	3489	380.27	0.0258
1250	1439	1439	49.39	3894	424.41	0.0231

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**All Aluminium Alloy Conductor (AAAC)
 ASTM B 399**

Nominal area		Stranding No./mm	Overall diameter mm	Approx. weight kg/km	Rated strength kN	Electrical resistance Ω/km
AWG&MCM	mm ²					
6	13	7/1.55	4.65	35	4.18	2.53610
4	21	7/1.96	5.88	57	6.69	1.58600
2	34	7/2.47	7.41	90	10.6	0.99870
0	54	7/3.12	9.36	144	17	0.62592
2/0	67	7/3.50	10.5	181	20.4	0.49738
3/0	85	7/3.93	11.79	228	25.7	0.39450
4/0	107	7/4.42	13.26	289	32.5	0.31188
250	126	19/2.91	14.55	340	38.8	0.26509
300	152	19/3.19	15.95	408	46.6	0.22059
350	178	19/3.45	17.25	478	52	0.18860
400	203	19/3.69	18.45	546	59.5	0.16486
450	228	19/3.91	19.55	613	66.8	0.14683
500	253	19/4.12	20.6	681	74.2	0.13224
550	279	37/3.10	21.7	751	83.9	0.11995
600	303	37/3.23	22.61	815	91	0.11049
650	330	37/3.37	23.59	887	94.9	0.10150
700	354	37/3.49	24.43	952	101	0.09464
750	381	37/3.62	25.34	1024	109	0.08796
800	404	37/3.73	26.11	1087	116	0.08285
900	456	37/3.96	27.72	1225	131	0.07351
1000	508	37/4.18	29.26	1365	146	0.06597
1250	631	61/3.63	32.67	1697	179	0.05306
1500	759	61/3.98	35.82	2040	215	0.04414
1750	886	61/4.30	38.7	2382	251	0.03781

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