

AAAC ALUMINIUM ALLOY CONDUCTOR SIZES TO BRITISH STANDARDS

Code Name	Equivalent Copper Area mm ²	Stranding and Wire Diameter mm	Overall Diameter mm	Aluminium Area mm ²	Mass kg/km	Ultimate Tensile Strength Newton	Coefficient of Linear Expansion /C° x 10 ⁻⁶	Initial Modulus of Elasticity MPa	Final Modulus of Elasticity MPa	DC Resistance at 20°C Ω/KM	Current Rating A	Standard Drum Length m
ACACIA	13	7/2,08	6,24	23,79	65	6690	23	52500	61000	1,39	133	3000
ALMOND	16	7/2,34	7,02	30,10	82	8440	23	52400	61000	1,10	153	2500
CEDAR	19	7/2,54	7,59	35,47	97	9960	23	52400	61000	0,934	169	2500
35	22	7/2,77	8,31	42,18	115	11860	23	52400	61000	0,785	189	2500
FIR	25	7/2,95	8,85	47,84	131	13430	23	52400	61000	0,692	204	2500
HAZEL	32	7/3,30	9,90	59,87	164	16820	23	52400	61000	0,553	235	2500
PINE	38	7/3,61	10,83	71,65	196	20200	23	52400	61000	0,462	262	2500
70	45	7/3,91	11,73	84,05	230	23630	23	52400	61000	0,394	290	2000
WILLOW	48	7/4,04	12,12	89,73	245	25200	23	52400	61000	0,369	302	1500
80	51	7/4,19	12,57	96,52	264	27060	23	52400	61000	0,343	316	1500
90	58	7/4,45	13,35	108,9	298	30400	23	52400	61000	0,306	339	1000
OAK	63	7/4,65	13,95	118,9	325	33330	23	52400	61000	0,279	359	1000
100	63	19/2,82	14,10	118,7	326	33330	23	49650	59650	0,280	359	2000
MULBERRY	80	19/3,18	15,90	150,9	415	42350	23	49650	59650	0,221	416	2000
ASH	96	19/3,48	17,40	180,7	497	50690	23	49650	59650	0,184	467	2000
ELM	112	19/3,76	18,80	210,9	580	59220	23	49650	59650	0,158	513	2000
POPLAR	119	37/2,87	20,09	239,4	660	67350	23	48250	58600	0,139	551	2000
225	143	37/3,05	21,35	270,3	744	75780	23	48250	58600	0,123	600	2000
SYCAMORE	161	37/3,23	22,61	303,2	835	85000	23	48250	58600	0,110	643	2000
UPAS	192	37/3,53	24,71	362,1	997	101670	23	48250	58600	0,0921	718	2000
350	224	37/3,81	26,67	421,8	1162	118430	23	48250	58600	0,0791	789	1500
YEW	254	37/4,06	28,42	479,0	1319	134510	23	48250	58600	0,0696	853	1500