Inventta Energy
MANUFACTURING

CONDUCTOR DATA SHEET

AAAC CONDUCTORS

METRIC UNITS
BS 3242 · NF C34-125 · IEC 61089

Code name	Area	Stranding and wire diameter	Approx. overall	Approx.	Rated	Max. DC resistance
	Al alloy	Al alloy	diameter	weight	strength	at 20 °C
	mm²	no./mm	mm	kg/km	kN	Ω/km
BOX	18.8	7/1.85	5.55	52	5.6	1.7799
ASTER 22	22.0	7/2.00	6.00	61	6.6	1.5233
ACACIA	23.8	7/2.08	6.24	66	7.1	1.4080
ALMOND	30.1	7/2.34	7.02	83	9.0	1.1129
ASTER 34.4	34.4	7/2.50	7.50	95	10.3	0.9749
CEDAR	35.5	7/2.54	7.62	98	10.6	0.9444
DEODAR	42.2	7/2.77	8.31	116	12.6	0.7941
FIR	47.8	7/2.95	8.85	132	14.3	0.7002
ASTER 54.6	54.5	7/3.15	9.45	150	16.3	0.6141
HAZEL	59.9	7/3.30	9.90	165	17.9	0.5595
PINE	71.7	7/3.61	10.83	198	21.4	0.4675
ASTER 75.5	75.5	19/2.25	11.25	208	22.6	0.4434
HOLLY	84.0	7/3.91	11.73	232	25.1	0.3985
WILLOW	89.7	7/4.04	12.12	247	26.9	0.3733
ASTER 117	117.0	19/2.80	14.00	323	35.0	0.2863
OAK	118.9	7/4.65	13.95	328	35.6	0.2818
ASTER 148	148.1	19/3.15	15.75	408	44.3	0.2262
MULBERRY	150.9	19/3.18	15.90	416	45.2	0.2220
ASH	180.7	19/3.48	17.40	498	54.1	0.1854
ASTER 181.6	181.6	37/2.50	17.50	501	54.4	0.1844
ELM	211.0	19/3.76	18.80	582	63.1	0.1588
ASTER 228	227.8	37/2.80	19.60	628	68.2	0.1470
PANTHER	231.7	19/3.94	19.70	639	69.3	0.1446
POPLAR	239.4	37/2.87	20.09	660	71.6	0.1399
ASTER 288	288.4	37/3.15	22.05	795	86.3	0.1162
SYCAMORE	303.2	37/3.23	22.61	836	90.7	0.1105
UPAS	362.1	37/3.53	24.71	998	108.4	0.0925
ASTER 366	366.2	37/3.55	24.85	1,010	109.6	0.0915
YEW	479.0	37/4.06	28.42	1,321	143.3	0.0699
TOTARA	498.1	37/4.14	28.98	1,373	149.1	0.0673
ASTER 570	570.2	61/3.45	31.05	1,572	170.6	0.0587
RUBUS	586.9	61/3.50	31.50	1,618	175.6	0.0571

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	Al alloy	Al alloy	diameter	weight	strength	at 20 °C
	mm²	no./mm	mm	kg/km	kN	Ω/km
SORBUS	659.4	61/3.71	33.39	1,818	197.3	0.0508
ARAUCARIA	821.1	61/4.14	37.26	2,264	245.7	0.0408
REDWOOD	996.2	61/4.56	41.04	2,747	298.1	0.0336

Note: all data in this data sheet is nominal and for information purposes only, calculated from the standard construction (Al 1350 61 % IACS, Al alloy 52.5 % IACS, galvanised steel). Final values are given in the approved Technical Data Sheet (TDS) for each order. Other sizes and customer specifications on request. Drum lengths to customer requirements. Prices on request. Cables are manufactured according to the applicable customer specifications and relevant technical standards. Compliance with specific EN standards is subject to verification and confirmation through the required testing.