

All Aluminium Conductors (AAC)



For transmission and distribution in electrical networks with relatively short spans.

Standard : DIN 48201 / BS-EN 50182

Conductor : Hard drawn stranded aluminium wires

TECHNICAL INFORMATION A- ACCORDING TO DIN 48201 / BS-EN 50182

Nominal Cross Section mm ²	Number & nominal wire diameter NR x mm	Approx. Overall diameter mm	Approx. Conductor weight Kg/Km	Max DC Resistance at 20°C ohm/km	Calculated Breaking Load KN
16	7x1.70	5.1	45	1.8017	2.8
25	7x2.10	6.3	65	1.1807	4.1
35	7x2.50	7.5	95	0.8331	5.7
50	7x3.00	9.0	135	0.5786	7.9
50	19x1.80	9.0	135	0.5949	8.4
70	19x2.10	10.5	180	0.4371	11.3
95	19x2.50	12.5	255	0.3084	15.6
120	19x2.80	14.0	320	0.2459	18.7
150	37x2.25	15.7	405	0.1960	25.3
185	37x2.50	17.5	500	0.1587	30.5
240	61x2.25	20.2	670	0.1191	39.5
300	61x2.50	22.5	825	0.0964	47.7
400	61x2.89	26.0	1105	0.0722	60.8
500	61x3.23	29.1	1380	0.0578	74.6
625	91x2.96	32.6	1726	0.0460	95
800	91x3.35	36.8	2228.3	0.0360	118.2
1000	91x3.74	41.1	2777.3	0.0290	145.5

TECHNICAL INFORMATION B- ACCORDING TO BS 215 / BS-EN 50182

Code Name	Number & nominal wire diameter NR x mm	Approx. Overall diameter mm	Approx. Conductor weight Kg/Km	Max DC Resistance at 20°C ohm/km	Calculated Breaking Load KN
MIDGE	7x2.06	6.18	63.8	1.2270	3.9
GANT	7x2.2	6.6	73.00	1.0640	4.83
MOSQUITO	7x2.6	7.8	101	0.7740	6.27

Code Name	Number & nominal wire diameter NR x mm	Approx. Overall diameter mm	Approx. Conductor weight Kg/Km	Max DC Resistance at 20°C ohm/km	Calculated Breaking Load KN
BLUEBOTTLE	7x3.7	11	201	0.3880	11.78
EARWIG	7x3.8	11.3	215	0.3630	12.57
GRASSHOPPER	7x3.9	11.7	230	0.3400	13.45
CLEGG	7x4.2	12.5	261	0.2980	15.3
WASP	7x4.39	13.17	289	0.2702	16
BEETLE	19x2.7	13.4	292	0.2700	18.08
BEE	7x4.9	14.7	361	0.2160	21.12
HORNET	19x3.25	16.25	433	0.1825	25.7
CATERPILLAR	19x3.5	17.7	511	0.1540	29.75
CHAFER	19x3.78	18.9	586	0.1349	23.4
SPIDER	19x4.0	20	653	0.1210	38.01
COCKROACH	19x4.22	21.1	730	0.1083	40
BUTTERFLY	19x4.65	23.3	887	0.0891	48.7
MOTH	19x5.0	25	1025	0.0770	59.69
DRONE	37x3.6	25.1	1027	0.0770	59.69
CETIPEDE	37x3.78	26.46	1145	0.0694	56.1
MAYBUG	37x4.1	28.6	1341	0.0590	77.78
SCORPION	37x4.3	29.9	1461	0.0540	84.77
CICADA	37x4.7	32.6	1733	0.0450	100.54