

# BS 215

All Aluminum Stranded Conductor (AAC)



Code Name	Nominal Cross Section	No./Dia. of Stranding Wires	Sectional Area	Overall Diameter	Linear Weight	Max. DC Resistance of Conductor at 20°C	Calculated Breaking Load	Final Modulus of Elasticity	Coefficient of Linear Expansion
	mm <sup>2</sup>	No./mm	mm <sup>2</sup>	mm	kg/km	Ω/km	daN	hbar	/°C
Midge	22	7/2.06	23.33	6.18	64	1.2270	399	5900	23×10 <sup>-6</sup>
Aphis	25	3/3.35	26.40	7.20	73	1.0810	411	5900	23×10 <sup>-6</sup>
Gnat	25	7/2.21	26.80	6.60	73	1.0660	459	5900	23×10 <sup>-6</sup>
Weevil	30	3/3.66	31.60	7.90	86	0.9082	486	5900	23×10 <sup>-6</sup>
Mosquito	35	7/2.59	37.00	7.80	101	0.7762	603	5900	23×10 <sup>-6</sup>
Ladybird	40	7/2.79	42.80	8.40	117	0.6689	687	5900	23×10 <sup>-6</sup>
Ant	50	7/3.10	52.83	9.30	145	0.5419	828	5900	23×10 <sup>-6</sup>
Fly	60	7/3.40	63.55	10.20	174	0.4505	990	5900	23×10 <sup>-6</sup>
Bluebottle	70	7/3.66	73.70	11.00	202	0.3881	1134	5900	23×10 <sup>-6</sup>
Earwing	75	7/3.78	78.50	11.40	215	0.3644	1194	5900	23×10 <sup>-6</sup>
Grasshopper	80	7/3.91	84.10	11.70	230	0.3406	1278	5900	23×10 <sup>-6</sup>
Clegg	90	7/4.17	95.60	12.50	262	0.2994	1453	5900	23×10 <sup>-6</sup>
Wasp	100	7/4.39	106.00	13.17	290	0.2702	1600	5900	23×10 <sup>-6</sup>
Beetle	100	19/2.67	106.00	13.40	293	0.2704	1742	5600	23×10 <sup>-6</sup>
Bee	125	7/4.90	132.00	14.70	361	0.2169	1944	5900	23×10 <sup>-6</sup>
Cricket	150	7/5.36	157.90	16.10	432	0.1818	2385	5900	23×10 <sup>-6</sup>
Hornet	150	19/3.25	157.60	16.25	434	0.1825	2570	5600	23×10 <sup>-6</sup>
Caterpillar	175	19/3.53	186.00	17.70	512	0.1547	2863	5600	23×10 <sup>-6</sup>
Chafer	200	19/3.78	213.20	18.90	587	0.1349	3240	5600	23×10 <sup>-6</sup>
Spider	225	19/3.99	236.90	20.00	652	0.1211	3601	5600	23×10 <sup>-6</sup>
Cockroach	250	19/4.22	265.70	21.10	731	0.1083	4040	5600	23×10 <sup>-6</sup>
Butterfly	300	19/4.65	322.70	23.25	888	0.0892	4875	5600	23×10 <sup>-6</sup>
Moth	350	19/5.00	373.20	25.00	1027	0.0771	5637	5600	23×10 <sup>-6</sup>
Drone	350	37/3.58	373.30	25.10	1029	0.0774	5745	5600	23×10 <sup>-6</sup>
Locust	400	19/5.36	428.50	26.80	1179	0.0671	6473	5600	23×10 <sup>-6</sup>
Centipede	400	37/3.78	415.20	26.46	1145	0.0694	6310	5600	23×10 <sup>-6</sup>
Maybug	450	37/4.09	486.90	28.60	1342	0.0593	7401	5600	23×10 <sup>-6</sup>
Scorpion	500	37/4.27	529.50	29.90	1460	0.0544	7998	5600	23×10 <sup>-6</sup>
Cicada	600	37/4.65	628.60	32.60	1733	0.0459	9495	5600	23×10 <sup>-6</sup>
Tarantula	750	37/5.23	794.60	36.60	2191	0.0363	12010	5600	23×10 <sup>-6</sup>