



APPLICATION 7 and 19 strand construction is suitable for bare overhead reticulation of medium spans, normally at low and medium voltages. 37 and 61 strand construction is suitable for transmission and subtransmission lines for short span projects. Also used as flexible bus bar AAC = All Aluminium Conductor.	STANDARD	BS 215 Part 1:1970
	CONDUCTOR	Aluminium Alloy 1350
	STRAND CONSTRUCTION	As Below

Code Name	Conductor Aluminium		Nominal Overall Diameter mm	Approximate Mass kg/km	Calculated Min Breaking Load kN	Final Modulus of Elasticity GPa	Coefficient of Linear Expansion /° x 10 ⁻⁵	Max. Packing m
	Area mm ²	Makeup No./mm						
Cockroach	265.7	19/4.22	21.1	731	40	56	23	2000
Butterfly	322.7	19/4.65	23.3	888	49	56	23	1500
Moth	373.2	19/5.00	25.0	1026	56	56	23	1500
Drone	372.4	37/3.58	25.1	1027	58	56	23	1000
Centipede	415.2	37/3.78	26.5	1145	63	56	23	1000
Locust	428.7	19/5.36	26.8	1180	64	56	23	1000
Maybug	486.1	37/4.09	28.6	1340	74	56	23	1000
Scorpion	529.8	37/4.27	29.9	1461	80	56	23	1000
Cicada	628.3	37/4.65	32.6	1732	95	56	23	1000
Tarantula	749.9	37/5.23	36.6	2192	120	56	23	1000

CONDUCTOR CODE NAME	ELECTRICAL CHARACTERISTICS					
	Equivalent Electrical Areas	Maximum DC Resistance @20°C	Current Ratings @ 75°C		Inductive Reactance to 0.4m	Single Phase Voltage Drop @ 0.4m spacing mV/A.m
	Aluminium mm ²		Winter Night	Summer Noon		
			Ω/km	A	A	Ω/km
Cockroach	265.7	0.108	893	735	0.260	0.585
Butterfly	322.7	0.089	1010	829	0.254	0.554
Moth	373.2	0.077	1110	909	0.250	0.534
Drone	372.4	0.077	1111	910	0.250	0.533
Centipede	415.2	0.069	1187	970	0.245	0.520
Locust	428.7	0.067	1212	990	0.245	0.518
Maybug	486.1	0.059	1317	1074	0.240	0.503
Scorpion	529.8	0.054	1383	1126	0.238	0.494
Cicada	628.3	0.046	1537	1248	0.232	0.478
Tarantula	749.9	0.036	1792	1450	0.225	0.459

Wind Speed 1m/sec, air temp. 10°C for winter night, 40°C for summer noon, intensity of solar radiation 1000 W/m² for summer noon

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