



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	Calculated Min Breaking Load kN	Final Modulus of Elasticity GPa	Coefficient of Linear Expansion /° x 10 ⁻⁵	Approximate Mass kg/km	Max. Packing m
	Area mm ²	Makeup No./mm						
Grasshopper	84.1	7/3.91	11.7	12.8	59	23	230	2000
Clegg	95.6	7/4.17	12.5	14.5	59	23	262	2000
Wasp	106.2	7/4.39	13.2	16.0	59	23	290	1500
Beetle	106.4	19/2.67	13.4	17.4	56	23	293	2500
Weke	122.5	7/4.72	14.2	18.5	59	23	335	1500
Bee	132.0	7/4.90	14.7	19.9	59	23	361	1500
Hornet	157.6	19/3.25	16.3	24.7	56	23	434	2000
Cricket	157.9	7/5.36	16.1	23.9	59	23	432	1500
Weta	167.5	19/3.55	16.8	26.2	56	23	461	2000
Caterpillar	185.9	19/3.53	17.7	28.6	56	23	512	2000
Chafer	213.2	19/3.78	18.9	32.4	56	23	587	2000
Mata	222.3	19/3.86	19.3	33.8	56	23	612	2000
Spider	237.6	19/3.99	20.0	36.0	56	23	654	2000

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
Grasshopper	84	0.341	426	356	0.300	1.03
Clegg	95.6	0.299	463	386	0.296	0.941
Wasp	106.2	0.27	495	413	0.293	0.883
Beetle	106.4	0.27	497	414	0.289	0.877
Weke	122.5	0.234	544	453	0.288	0.810
Bee	132	0.217	570	474	0.286	0.780
Hornet	157.6	0.183	640	530	0.277	0.711
Cricket	157.9	0.181	639	530	0.280	0.715
Weta	167.5	0.172	667	552	0.275	0.691
Caterpillar	185.9	0.155	712	589	0.271	0.662
Chafer	213.2	0.135	776	641	0.267	0.629
Mata	222.3	0.129	798	658	0.266	0.619
Spider	237.6	0.121	830	684	0.264	0.606

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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QUALITY CABLE MANUFACTURES, DISTRIBUTORS AND EXPORTERS

LOT 3, KINGS ROAD, YALALEVU, BA. P.O. BOX 1562, BA, FIJI.

PHONE: (679)6675244 FAX: (679)6670023,

E-Mail: sales@dominioncables.com

web: www.dominioncables.com

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