



<b>APPLICATION</b>  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.	<b>STANDARD</b>	BS 215 Part 1:1970
	<b>CONDUCTOR</b>	Aluminium Alloy 1350
	<b>STRAND CONSTRUCTION</b>	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 <sup>2</sup>	Makeup No./mm						
Midge	23.3	7/2.06	6.2	60	4.0	59	23	2000
Namu	24.5	7/2.11	6.3	70	4.2	59	23	2000
Aphis	26.4	3/3.35	7.2	70	4.1	62	23	2000
Gnat	26.9	7/2.21	6.6	70	4.6	59	23	2000
Poko	30.6	7/2.36	7.1	80	5.1	59	23	4000
Weevil	31.6	3/3.66	7.9	90	4.9	62	23	2000
Mosquito	36.9	7/2.59	7.8	100	6.1	59	23	2000
Ladybird	42.8	7/2.79	8.4	120	6.9	59	23	2000
Kutu	49.5	7/3.00	9.0	140	7.9	59	23	2000
Ant	52.8	7/3.10	9.3	140	8.3	59	23	2000
Fly	63.6	7/3.40	10.2	170	9.9	59	23	2000
Rango / Bluebottle	73.6	7/3.66	11.0	200	11.3	59	23	2000
Earwig	78.6	7/3.78	11.3	210	11.9	59	23	2000

CONDUCTOR CODE NAME	ELECTRICAL CHARACTERISTICS							
	Equivalent Electrical Areas		Maximum DC Resistance @20°C Ω/km	Maximum AC Resistance @75°C Ω/km	Current Ratings @ 75°C		Inductive Reactance to 0.4m Ω/km	Single Phase Voltage Drop @ 0.4m spacing mV/A.m
	Aluminium mm <sup>2</sup>	Copper mm <sup>2</sup>			Winter Night A	Summer Noon A		
Midge	23.3	14.2	1.227	1.499	188	159	0.340	3.07
Namu	24.5	14.9	1.170	1.429	194	164	0.339	2.94
Aphis	26.4	16.1	1.0831	1.321	209	176	0.335	2.73
Gnat	26.9	16.4	1.068	1.305	205	174	0.336	2.70
Poko	30.6	18.7	0.932	1.139	224	189	0.332	2.37
Weevil	31.6	19.2	0.908	1.110	234	197	0.329	2.32
Mosquito	36.9	22.5	0.773	0.994	253	213	0.326	2.00
Ladybird	42.8	26.1	0.669	0.818	277	233	0.321	1.76
Kutu	49.5	30.2	0.578	0.707	304	255	0.317	1.55
Ant	52.8	32.2	0.542	0.662	317	266	0.315	1.47
Fly	63.6	38.8	0.451	0.551	356	299	0.309	1.26
Rango / Bluebottle	73.6	44.9	0.388	0.475	392	328	0.304	1.13
Earwig	78.6	47.9	0.365	0.446	409	342	0.302	1.08

Wind Speed 1m/sec, air temp. 10°C for winter night, 40°C for summer noon, intensity of solar radiation 1000 W/m<sup>2</sup> for summer noon

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

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**E-Mail: [sales@dominioncables.com](mailto:sales@dominioncables.com)**

**web: [www.dominioncables.com](http://www.dominioncables.com)**

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