

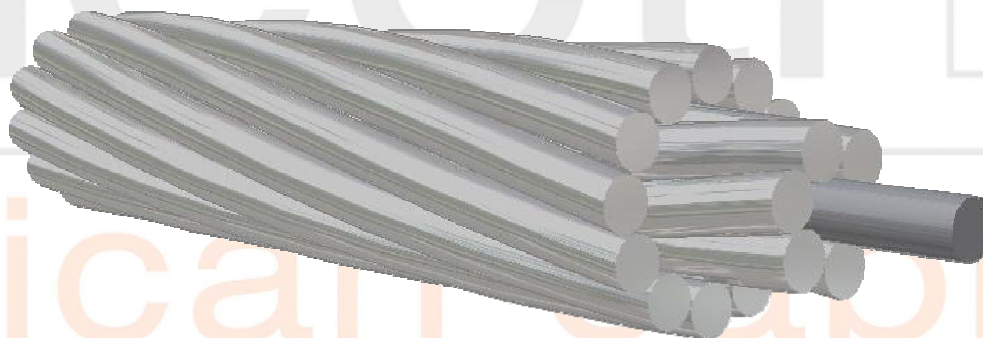
Steel centre, Aluminium.

F0... Primary group code

ACSR CONDUCTOR
DISSCAAY5 / BS215 / IEC61089

Size code		PANTHER	BEAR	KINGBIRD	GOAT	TERN
No. of Wires (Aluminium/Steel)	mm	30 / 7	30 / 7	18 / 1	30 / 7	45 / 7
Wire Diameter (Aluminium)	mm	3.00	3.35	4.78	3.71	3.38
Wire Diameter (Steel)	mm	3.00	3.35	4.78	3.71	2.25
Conductor Diameter	mm	21.0	23.5	23.9	25.9	27.0
Total Area (Aluminium)	mm ²	212.1	264.4	323.0	324.3	403.8
Total Area (Steel)	mm ²	49.5	61.7	17.9	75.7	27.8
Total Conductor Area	mm ²	261.5	326.1	340.9	400.0	431.6
Linear Mass (Aluminium)	kg/km	586.0	731.9	889.7	896.2	1115.7
Linear Mass (Steel)	kg/km	387.6	485.0	140.0	592.8	218.0
Conductor Linear Mass	kg/km	973.6	1216.8	1029.7	1488.9	1333.8
Conductor Linear Mass (Greased)	kg/km	1011.5	1264.1	1072.4	1546.9	1405.4
Resistance dc @ 20°C	Ω/km	0.1363	0.1093	0.0895	0.0891	0.0718
Resistance dc @ 50°C	Ω/km	0.1528	0.1225	0.1003	0.0999	0.0805
Ultimate tensile strength	kN	92.2	112.0	69.8	135.7	98.7
Modulus of Elasticity	MPa	83400	83400	63100	83400	63700
Coefficient of Linear Expansion	$\frac{1}{^{\circ}\text{C}} \times 10^{-6}$	19.3	18.4	21.0	18.4	20.8
Creep constant *	mm/m	0.335	0.335	0.425	0.335	0.420
Current rating under Normal Conditions						
AT 50°C	Amps	463	529	590	596	611
AT 60°C	Amps	580	663	738	747	784
AT 70°C	Amps	673	770	855	867	911
AT 80°C	Amps	751	859	956	967	1023
AT 90°C	Amps	820	937	1032	1055	1116
Current rating under Emergency Conditions						
AT 50°C	Amps	625	715	793	801	814
AT 60°C	Amps	752	860	955	966	991
AT 70°C	Amps	853	976	1088	1103	1138
AT 80°C	Amps	940	1076	1196	1209	1257
AT 90°C	Amps	1019	1165	1294	1322	1360

* Approximate value determined from Graph I, Annex B of Eskom Spec. DISASABHI_Rev 2



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