

Steel centre, Aluminium.

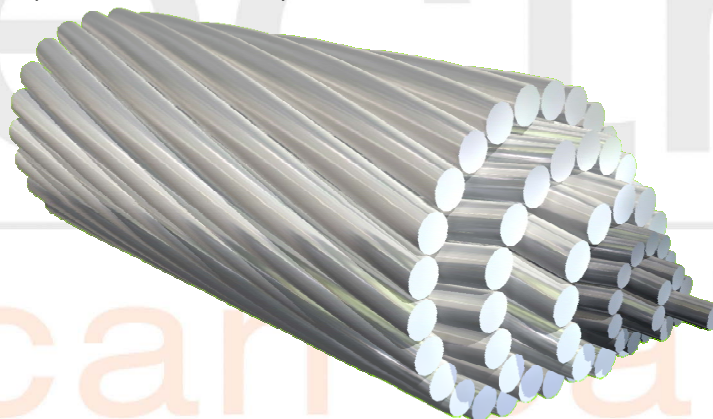
F0... Primary group code

ACSR CONDUCTOR
DISSCAAY5 / BS215 / IEC61089

Size code		BERSFORT	ZEBRA	DINOSAUR		
No. of Wires (Aluminium/Steel)	mm	48 / 7	54 / 7	54 / 19		
Wire Diameter (Aluminium)	mm	4.27	3.18	3.95		
Wire Diameter (Steel)	mm	3.32	3.18	2.37		
Conductor Diameter	mm	35.6	28.6	35.9		
Total Area (Aluminium)	mm ²	687.4	428.9	661.7		
Total Area (Steel)	mm ²	60.6	55.6	83.8		
Total Conductor Area	mm ²	748.0	484.5	745.5		
Linear Mass (Aluminium)	kg/km	1899.4	1186.3	1830.3		
Linear Mass (Steel)	kg/km	474.7	435.5	658.8		
Conductor Linear Mass	kg/km	2374.1	1621.8	2489.1		
Conductor Linear Mass (Greased)	kg/km	2488.4	1695.3	2603.5		
Resistance dc @ 20°C	Ω/km	0.0421	0.0674	0.0445		
Resistance dc @ 50°C	Ω/km	0.0472	0.0755	0.0499		
Ultimate tensile strength	kN	180.0	133.0	205.5		
Modulus of Elasticity	MPa	65900	73200	72300		
Coefficient of Linear Expansion	1 / °C x10 ⁻⁶	20.5	19.9	20.0		
Creep constant *	mm/m	0.330	0.300	0.305		
Current rating under Normal Conditions						
AT 50°C	Amps	-	-	-		
AT 60°C	Amps	-	-	-		
AT 70°C	Amps	-	-	-		
AT 80°C	Amps	-	-	-		
AT 90°C	Amps	-	-	-		
Current rating under Emergency Conditions						
AT 50°C	Amps	-	-	-		
AT 60°C	Amps	-	-	-		
AT 70°C	Amps	-	-	-		
AT 80°C	Amps	-	-	-		
AT 90°C	Amps	-	-	-		

Last updated Jan 2007

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



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