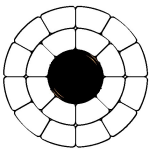

HIGH TEMPERATURE LOW SAG CONDUCTORS

TECHNICAL DATA SHEET

Aluminium Conductor Composite Core

CODE NAME			**ACCC® Silvassa**
STANDARD			**ASTM B 857 / B 609 or EN 50540**
Mechanical Specifications			
Nominal Aluminum Cross-Sectional Area		mm^2	122,7
Nominal Diameter of Composite Core		mm	5,97
Nominal Cross-Sectional Area of Core		mm^2	28,0
Overall Diameter of Conductor		mm	14,35
Nominal Cross-Sectional Area of the Conductor		mm^2	150,7
Ultimate Tensile Strength of Conductor		kN	67,4
Rate Strength of Core - 313ksi (2158 MPa)		kN	60,4
Core Nominal Mass per Unit Length		kg/km	54
Conductor Nominal Mass per Unit Length		kg/km	393,3
Aluminum Nominal Mass per Unit Length		kg/km	339,9
Maximum Continuous Operating Temperature of Conductor		°C	180
Maximum Allowable Emergency Temperature of Conductor		°C	200
Coefficient of Linear Expansion Above Thermal Kneepoint		/°C	1,61E-06
Coefficient of Linear Expansion Below Thermal Kneepoint		/°C	1,64E-05
Final Modulus of Elasticity Above Thermal Kneepoint		Gpa	112,3
Final Modulus of Elasticity Below Thermal Kneepoint		GPa	68,1
Stranding Configuration			
No. of Layers		pcs.	2
No. of Trapezoidal Wires in First Layer		pcs.	8
No. of Trapezoidal Wires in Second Layer		pcs.	12
Electrical Specifications			
Nominal Resistivity of Aluminum at 20°C, DC 63% IACS		Ω/km	0,2286
Temperature Coefficient of Resistance		/°C	0,00403
Frequency		Hz	50
AC Nominal Resistance at 25°C		Ω/km	0,2335
AC Nominal Resistance at 75°C		Ω/km	0,2795
AC Nominal Resistance at 180°C		Ω/km	0,3762
AC Current Rating at Given Temp.	@ 100°C & 50 Hz	Amperes	458
	@180°C & 50 Hz		673
GMR (estimated)		m	0,01
Inductive Reactance		Ω/km	0,245
Capacitive Reactance		MΩ-km	0,214

ACCC® is produced with 1350 O-tempered aluminum
ACCC® exhibit lay length (ratios) that conform to ASTM B 857 or EN 50540
Minimum tensile strength of annealed aluminum conform to ASTM B 609 and EN 50540
Conditions: 0,61 m/s (2 ft/s) wind, 0 m (0 ft) elevation, 0,5 emis., 0,5 absorp. 40°C ambient temp., 1033 W/m² (96 W/ft²) sun radiation

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