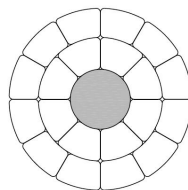


DATA SHEET: AMSTERDAM



Version 1, 10/10/'08

Conductor Type		LF ACCC 380			
Code Name		AMSTERDAM			
Conductor values:					
Nominal aluminium equivalent area	mm²	384			
Nominal Cross-sectional area of aluminium	mm²	371,3			
Nominal Cross-sectional area of Core	mm²	47,2			
Number, diameter and type of Core	#, mm	1	7,75	R	CC
Number, (eq.) diameter and type of wire in layer 1	#, mm	8	4,86	T	Al
Number, (eq.) diameter and type of wire in layer 2	#, mm	12	4,87	T	Al
Minimum filling factor of the aluminium cross section	%	93			
Lay ratio of inner layer(s)		10-16			
Lay ratio of outer layer		10-14			
Overall diameter	mm	23,55			
Diameter of Core	mm	7,75			
Diameter tolerance of Core	mm	± 0,06			
Rated Tensile Strength of Conductor (RTS as per ASTM B 857) *	kN	122,8			
Extreme Load Safety Strength of Conductor (with 40% of the aluminium strength) **	kN	110,6			
Rated Tensile Strength of Core	kN	101,9			
Nominal Mass per unit length - Total	kg/km	1113,0			
Nominal Mass per unit length - Aluminium	kg/km	1026,0			
Nominal Mass per unit length - Core	kg/km	87,0			
DC resistance at 20 °C (nominal)	Ohm/km	0,0754			
DC resistance at 20 °C (maximum)	Ohm/km	0,0769			
DC current rating at maximum continuous surface Operating Temperature *** (calculated with maximum DC resistance at 20°C)	A, °C	1405	175		
Maximum allowable continuous operating temperature (surface)	°C	175			
Maximum allowable continuous operating temperature (core)	°C	180			
Coefficient of linear expansion above thermal kneepoint	/ K	0,00000161			
Coefficient of linear expansion below thermal kneepoint	/ K	0,0000185			
Modulus of elasticity above thermal kneepoint	GPa	118,6			
Modulus of elasticity below thermal kneepoint	GPa	63,6			
Individual wires:					
Resistivity of aluminium at 20 °C (maximum)	nohmm	27,35			
Minimum tensile strength, aluminium wire	MPa	58,6			

Standard applied for conductor manufacturer: EN50182

* Note ASTM calculates aluminium strength at 96% of the minimum Tensile Strength of the aluminium wire

** This safety strength is recommended where sustained loads of over 80% of the RTS are expected for prolonged periods. For further information, please see the ACCC Conductor Technical Note TN-750-001.

*** Conditions: Wind : 0,6m/s; emissivity= abs.Coef. = 0,5; sun radiation : 1000W/m²; Ambient temperature: 25 °C