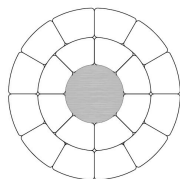


DATA SHEET:

DUBLIN



Version 1, 03/11/'08

Conductor Type			LF ACCC 540			
Code name			DUBLIN			
Conductor values:						
Nominal aluminium equivalent area	mm²		546			
Nominal Cross-sectional area of aluminium	mm²		528,7			
Nominal Cross-sectional area of Core	mm²		71,3			
Number, (eq.) diameter and type of central wire	#, mm		1	9,53	R	CC
Number, (eq.) diameter and type of wire in layer 1	#, mm		8	5,53	T	Al
Number, (eq.) diameter and type of wire in layer 2	#, mm		14	5,54	T	Al
Lay ratio of inner layer(s)			10-16			
Lay ratio of outer layer			10-14			
Overall diameter	mm		28,15			
Diameter of Core	mm		9,53			
Diameter tolerance of Core			± 0,06			
Rated Tensile Strength of Conductor (RTS as per ASTM B 857) *	kN		183,5			
Extreme Load Safety Strength of Conductor (with 40% of the aluminium strength) **	kN		166,2			
Rated Tensile Strength of Core	kN		153,8			
Nominal Mass per unit length - Total	kg/km		1594,8			
Nominal Mass per unit length - Aluminium	kg/km		1462,8			
Nominal Mass per unit length - Core	kg/km		132,0			
DC resistance at 20 °C (nominal)	Ohm/km		0,0530			
DC resistance at 20 °C (maximum)	Ohm/km		0,0541			
DC current rating at maximum continuous surface operating temperature *** (calculated with maximum DC resistance at 20°C)	A, °C		1764		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		0,0000183			
Final modulus of elasticity above thermal kneepoint	GPa		118,6			
Final modulus of elasticity below thermal kneepoint	GPa		63,9			
Individual wires (EN50182, EN50189)						
Resistivity of aluminium at 20 °C (maximum)	nohmm		27,37			
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