

CODE NAME					70-AL1/11-ST1A				
OLD CODE					70/12				
STANDARD					BS EN 50182_2001				
Aluminium Conductor Steel Reinforced	Size/nominal sectional area		mm ²		70				
	Aluminum strand		Number	26		Diameter	1,85		mm
	Steel strand(for ACSR only)			7			1,44		
	Calculated area		Alum.	69,9	mm ²	Total	81,3	mm ²	
			Steel	11,4					
	Minumum breaking strength		kN		26,27				
	Outside diameter		mm		11,7				
	Standard weight		Alum.	193,0	kg/km	Total	282,2	kg/km	
			Steel	89,2	kg/km				
	Calculated resistance 20°C		D.C.		0,4132			Ohm/km	
	Modulus of elasticity		Final		77.000			N/mm ²	
	Coefficient of linear expansion		Per °C		18.9 * 10 ⁻⁶				
	Lay ratio and Direction of lay		Outer			Second		Third	
			Alum.	10 - 14	Right	10 - 16	Left		
			Steel	16 - 26	Right				
	Length of each reel		m (+/- %2)		3.000				
	Reel type		mm*mm*mm		1200 * 600 * 660 (780)				
	Net weight per drum (without grease)		kg		847				
	Gross weight per drum		kg		987				
	Grease weight Acc. To BS EN 50182_2001*		kg/km (+/-%20)		2,3				
Grease type				Shell General Purpose or equivalent					
ALUMINUM WIRE	Diameter		mm		1,85				
	Ultimate tensile strength		N/mm ²		185				
	Conductivity at 20°C		% IACS		61				
STEEL CORE WIRE	Diameter		mm		1,44				
	Ultimate tensile strength		N/mm ²		1.400				
	Stress at 1% extension		N/mm ²		1.170				
	Elongation in 250 mm		%		3				
	Galvanizing weight of coating		g/m ²		185				
	Torsion		turns		18				

Case 1: Steel core only greased.