

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					
	Minimum 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.