

## ACSR 490/65 TECHNICAL SPECIFICATION

		UNIT	
CODE NAME			ACSR 490/65
NEW CODE			490-AL1/64-ST1A
STANDARD			DIN 48204 / EN 50182
CONSTRUCTION			7x3,40mm St1A+ 54x3,40mm Al1
CROSS-SECTIONAL AREA ALUMINIUM		mm <sup>2</sup>	490,3
CROSS-SECTIONAL AREA STEEL		mm <sup>2</sup>	63,6
TOTAL CROSS-SECTIONAL AREA		mm <sup>2</sup>	553,8
CURRENT CARRYING CAPACITY		A	960
CALCULATED RESISTANCE DC 20°C		Ω/km	0.0590
FINAL ELASTICITY MODULUS		N/ mm <sup>2</sup>	70.000
COEFFICIENT OF LINEAR EXPANSION PER		1/ °K	19,3x10 <sup>-6</sup>
RATED STRENGTH		KN	185,81
NET WEIGHT PER DRUM		Kg/km	1856 (±%2)
TYPE OF DRUM			NON RETURNABLE WOODEN
GREASE TYPE			Li_ based
GREASING METHOD			AIR PUMP
LAY RATIO	AL	First Layer Second Layer Third Layer	10-14 10-16 10-16
	ST	First Layer Second Layer	16-26 -
DIRECTION OF OUTER LAYER			RIGHT (Z)
UNIT WEIGHT OF GREASE (TYPE 1)			12,6 kg/km
<b>ALUMINIUM WIRE</b>			
DIAMETER mm		mm	3,40
TENSILE STRENGTH kg/mm <sup>2</sup>		kg/mm <sup>2</sup>	16
RESISTIVITY nΩm (20°C)		nΩm (20°C)	28.264
CONDUCTIVITY at 20°C			%IACS 61
WRAPPING TEST			8 turns on wire dia, 6 turns back, 6 turns re-turn – no cracks must appear
<b>STEEL CORE</b>			
DIAMETER OF SINGLE WIRE mm		mm	3.40
TENSILE STRENGTH N/mm <sup>2</sup>		N/mm <sup>2</sup>	1300
MIN. STRESS % 1 ELONGATION kg/mm <sup>2</sup>		N/mm <sup>2</sup>	1100
ELONGATION in 254 mm			3.5
TORSION TEST		turn/min.	14
WRAPPING TEST		turn/min.	15
WEIGHT OF ZINC COATING g/m <sup>2</sup>		g/m <sup>2</sup>	245