

GTP / DATA SHEET FOR ACSR 150/25 CONDUCTOR

SR No	PARTICULARS	UNIT	DATA
A	ACSR CONDUCTOR		
1	Specification according to which the conductor will be manufactured and tested.	-	EN 50182
2	Code Name	-	ACSR 150/25
3	Size / Construction		Al. 26/2.7 mm + St. 7/2.1 mm
4	Outer Diameter of Conductor	mm	17.10
5	Standard cross sectional area of Aluminium	mm ²	148.9
6	Standard cross sectional area of steel	mm ²	24.2
7	Total Sectional area of the conductor	mm ²	173.1
8	Minimum Rated Strength of Conductor	kN	53.67
9	Maximum DC resistance of conductor at 20 deg.C.	Ohm/km	0.1940
10	Standard Linear mass of conductor		
	a) Aluminium	Kg/km	411.2
	b) Steel	Kg/km	189.6
	c) Conductor without Grease	Kg/km	600.8 (Nominal)
11	Lay ratio of conductor	-	
	(a) 1+6 Steel layer	-	Min.16 Max.26
	(b) 10 Wire layer	-	Min.10 Max.16
	(c) 16 Wire layer	-	Min.10 Max.14
12	Direction of lay for outside layer	-	Right Hand
13	Greasing	-	N/A
14	PACKING	-	As per attached Drum Drawing
B	Particulars of Raw Materials :		
1	Aluminium	-	
	(a) Minimum Purity of Aluminium	%	99.50%
	(b) Maximum Copper Content	%	0.05%
C	ALUMINIUM STRANDS AFTER STRANDING		
1	Diameter	-	
	(a) Nominal	mm	2.70
	(b) Maximum	mm	2.73
	(c) Minimum	mm	2.67
2	Minimum Ultimate Tensile Strength	N/mm ²	161.5
3	Maximum Resistivity per Km at 20°C	Ohm-mm ² /km	28.264
4	Wrap Test	-	On 1XD

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D	STEEL STRANDS AFTER STRANDING (ST1A)		
1	Diameter	-	
	(a) Nominal	mm	2.10
	(b) Maximum	mm	2.13
	(c) Minimum	mm	2.07
2	Minimum Ultimate Tensile Strength	N/mm ²	1330
3	Minimum Ultimate Tensile stress.	N/mm ²	1170
4	% Elongation on 250mm Gauge Length(min.)	%	2.5
5	Min. No. of twists to breakage on a length of 100 times the wire diameter.	Nos	16 Twist
6	Galvanising		
	(a) Minimum mass of zinc coating per sq.m of Uncoated wire surface.	g/m ²	215
	(b) Minimum Number of Dip/ min.	Dip/min	2 dips of 1 min & 1 dips of 1/2 min
7	Wrapping Test	-	1 X D
8	Adhesion Test	-	4 X D