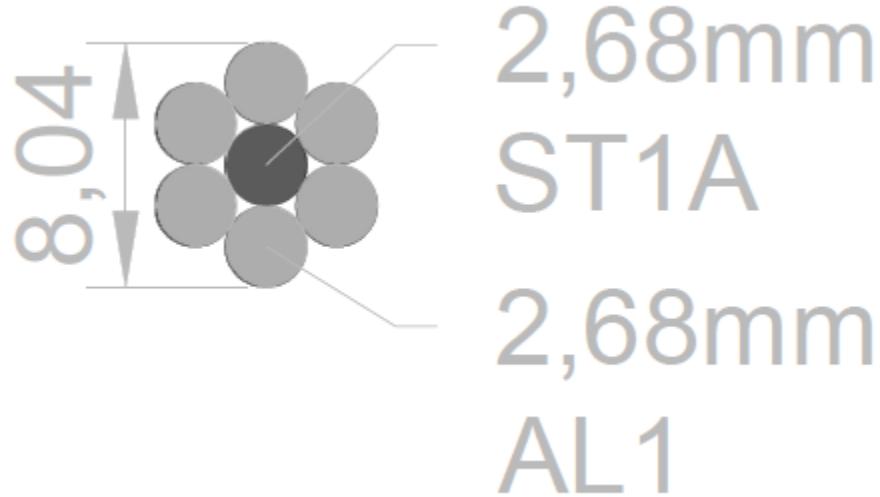


	Technical Specification	Date: 14.01.2016 Specification No: SO/06/140116 Revision Date: - Revision No: 0
ACSR 34/6 SPARROW (34-AL1/6-ST1A) as per EN 50182		

1. Technical Drawing:



2. Technical Characteristics:

No.	DESCRIPTION	UNIT	VALUE
1.	Producer		HASÇELİK KABLO SAN. TİC. A.Ş.
2.	Conductor coding -EN 50182		ACSR 34/6 Sparrow 34-AL1/6-ST1A
3.	Diameter: - complete conductor - steel core	mm mm	8,04 2,68
4.	Cross section: - complete conductor - aluminum part - steel part	mm ² mm ² mm ²	39,5 33,8 5,64
5.	Number of wires: - aluminum - steel	pcs. pcs.	6 1
6.	Diameter of wires: - aluminum - steel	mm mm	2,68 2,68
7.	Number of wires in layers: - outer layer - steel core	pcs. pcs.	6 1
8.	Aluminum to steel ratio		6,00

HASÇELİK KABLO SAN. VE TİC. A.Ş.

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ACSR 34/6 SPARROW (34-AL1/6-ST1A) as per EN 50182

No.	DESCRIPTION	UNIT	VALUE
9.	Aluminum wires technical parameters: - CBL before stranding - CBL after stranding - elongation in % on breaking	N/ mm ² N/ mm ² %	170 161,5 -
10.	Galvanized steel wires technical parameters: - tension at 1% elongation - CBL before stranding - CBL after stranding - elongation in % on breaking	N/ mm ² N/mm ² N/mm ² %	1140 1350 1282,5 3,0
11.	Complete conductor Young factor (final)	N/mm ²	81000
12.	Linear expansion factor	(K ⁻¹)x10 ⁻⁶	19,2
13.	Maximum calculated resistance at 20 deg.C (1km)	Ω/km	0,8467
14.	Nominal RTS	kN	12,18
15.	Marginal working temperature: - steady state - short circuit conditions	°C °C	80 200
16.	Every Day Stress	N/mm ²	20% of RTS
17.	Max. Working Stress	N/mm ²	40% of RTS
18.	Conductor weight	kg/km	136,6; Without Grease
19.	Greasing Case		No Grease
20.	Current Carrying Capacity	A	209 *

* Assumed values for calculation of current carrying capacity:

Solar Radiation: 1000 W/m²

Wind Velocity: 0,6 m/s

Max. Wire Temperature: +80 °C

Ambient Temperature: +25 °C

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