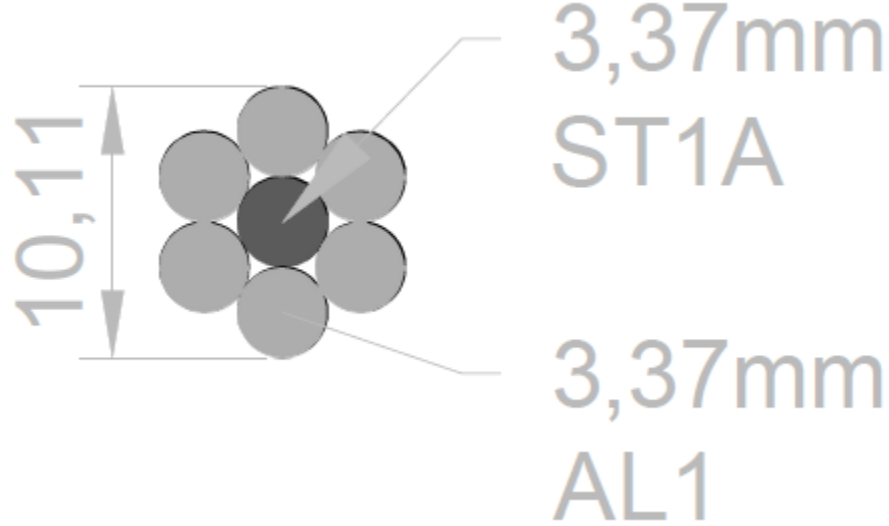


**1. Technical Drawing:****2. Technical Characteristics:**

No.	DESCRIPTION	UNIT	VALUE
1.	Producer		<b>HASÇELİK KABLO SAN. TİC. A.Ş.</b>
2.	Conductor coding -EN 50182		ACSR 54/9 Raven 54-AL1/9-ST1A
3.	Diameter: - complete conductor - steel core	mm mm	10,11 3,37
4.	Cross section: - complete conductor - aluminum part - steel part	mm <sup>2</sup> mm <sup>2</sup> mm <sup>2</sup>	62,4 53,5 8,92
5.	Number of wires: - aluminum - steel	pcs. pcs.	6 1
6.	Diameter of wires: - aluminum - steel	mm mm	3,37 3,37
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 54/9 RAVEN (54-AL1/9-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 <sup>2</sup> N/ mm <sup>2</sup> %	165 156,75 -
10.	Galvanized steel wires technical parameters: - tension at 1% elongation - CBL before stranding - CBL after stranding - elongation in % on breaking	N/ mm <sup>2</sup> N/mm <sup>2</sup> N/mm <sup>2</sup> %	1100 1300 1235 3,5
11.	Complete conductor Young factor (final)	N/mm <sup>2</sup>	81000
12.	Linear expansion factor	(K <sup>-1</sup> )x10 <sup>-6</sup>	19,2
13.	Maximum calculated resistance at 20 deg.C (1km)	Ω/km	0,5355
14.	Nominal RTS	kN	18,64
15.	Marginal working temperature: - steady state - short circuit conditions	°C °C	80 200
16.	Every Day Stress	N/mm <sup>2</sup>	20% of RTS
17.	Max. Working Stress	N/mm <sup>2</sup>	40% of RTS
18.	Conductor weight	kg/km	216,1; Without Grease
19.	Greasing Case		No Grease
20.	Current Carrying Capacity	A	278 *

\* Assumed values for calculation of current carrying capacity:

Solar Radiation: 1000 W/m<sup>2</sup>  
Wind Velocity: 0,6 m/s  
Max. Wire Temperature: +80 °C  
Ambient Temperature: +25 °C

HASÇELİK KABLO SAN. VE TİC. A.Ş.

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