

DECLARATION OF CONFORMITY

RESISTANCE AGAINST SALTY WATER

(SOLEN INTERNAL TEST – SALT WATER RESISTANCE TEST)

We, Solen Kablo as manufacturer declare that our H1Z2Z2-K DC SOLAR CABLES manufactured in accordance with EN 50618 and IEC 62930 conforms to the essential requirements of the Resistance against salt water based on Instruction numbered KT.02.03.17 and based on standard DIN EN 60068-2-11

Test Report No: KF.18-160525-02

Test Method & Standard: SOLEN Internal Test based on Test Instruction numbered KT.02.03.17 Tensile Strength test (after immersed in 5% (± 1) sodium chloride (NaCl) solution at $+23\pm 2^\circ\text{C}$ for 7 days /168 h.)

Test Results:

Variaton on Tensile Strength: After immersion NaCl solution at $+23\pm 2^\circ\text{C}$ for 7 days (168 h)

Conform: Variaton on tensile strength of the exposed samples must remain within $\pm 5\%$ of the unexposed (reference) samples to be considered acceptable.

pH Value		Tensile Strength (N/mm ²)		
Initial	After 7 Days of Immersion	Before Immersion	After 7 Days of Immersion	Final Variation
11	11,5	12	11,5	5 %

Test Result: PASS

Document No: 007/11.06.2025

This declaration is issued under the sole responsibility of the Solen Kablo.

Habibe ÇALIŞKAN

Q.A. Manager

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1. TEST REFERENCES

Test Name : SALT WATER RESISTANCE TEST
Test Reference Standard : SOLEN Internal Test with instruction numbered KT.02.03.17 and based on Salt Mist Resistance Test in accordance with DIN EN 60068-2-11
Test Date : 09.05.2025 – 16.05.2025

2. SPECIMEN DETAILS

Specimen Under Test : H1Z2Z2-K EBXL 1x6 mm² RED
Rated Voltage (U₀/U) : 1500 V DC

3. TEST DETAILS

Purpose:

This test aims to evaluate the corrosion resistance of solar cable sheath materials by exposing them to a saltwater environment under controlled conditions.

Scope:

The procedure involves immersing cable samples in a 5% (±1) sodium chloride (NaCl) solution at a constant temperature for 7 days, followed by mechanical performance testing.

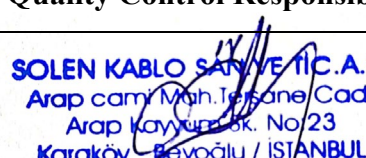
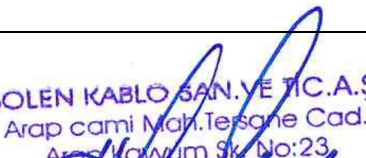
Method Overview:

- A total of 10 samples are prepared: 5 immersed in the NaCl solution and 5 stored under ambient conditions as reference.
- The test is conducted in a salt spray chamber maintained at (23 ± 2) °C for 168 hours (7 days).
- The pH of the solution is adjusted and maintained within 6.5–7.2.
- Daily monitoring includes temperature, pH, and solution level checks.
- After the test period, tensile strength tests are performed on both exposed and reference samples.
- The tensile strength variation of the exposed samples must be less than 5% compared to the unexposed reference group to be deemed acceptable.

4. TEST RESULTS

Test Specimen	pH Value of Solution (1 st Day)	pH Value of Solution (7 th Day)	Tensile Strength Without Immersion (N/mm ²)	Tensile Strength After Immersion (N/mm ²)	Variation on Tensile Strength (%)
H1Z2Z2-K EBXL 1x6 mm ² RED	6,5	6,5	12	11,5	5

4.1 Test Result: PASSED

Quality Control Responsible	Quality Assurance Manager
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