

SOLEN KABLO SANAYİ ve TİCARET A.Ş.

Sermayesi: 2.000.000 TL

DECLARATION OF AMMONIA RESISTANCE CONFORMITY

(SOLEN INTERNAL TEST - AMMONIA RESISTANCE)

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 ammonia resistance tests

Test Report No: KF.18-160525-01

Test Method & Standard: SOLEN Internal Test based on Test Instruction numbered KT.02.03.16 Tensile Strength test (after immersed in NH₄OH solution at +20±5°C for 7 days /168 h.)

Test Results:

Variation on Tensile Strength: After immersion NH₄OH solution at +20±5°C for 7 days (168 h)

Conform: Variation on tensile strength of the exposed samples must remain within ±30% of the unexposed (reference) samples to be considered acceptable.

pH Value		Tensile Strength (N/mm2)			
Initial	After 7 Days of Immersion	Before Immersion	After 7 Days of Immersion	Final Variation	
11	11,5	12	10	16 %	

Test Result: PASS

Document No: 006/11.06.2025

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

Habibe ÇALIŞKAN

Q.A. Manager SOLEN KABLO

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TEST REPORT

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1. TEST REFERANCES

Test Name : AMMONIA RESISTANCE TEST

Test Reference Standard : SOLEN Internal Test based on Test Instruction numbered KT.02.03.16

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 is performed to evaluate the corrosion resistance of solar cable sheaths by exposing them to an ammonia-based environment.

Scope:

The test covers the assessment of the mechanical integrity of cable sheath materials after immersion in a 5% (± 1) ammonium hydroxide (NH₄OH) solution for a total of 7 days, under controlled temperature conditions.

Method Overview:

- A total of 10 samples are prepared, with 5 immersed in the NH₄OH solution and 5 kept in ambient conditions for reference.
- Daily checks are performed for temperature, pH level, and solution level.
- At the end of the test period, tensile strength tests are conducted on all samples, and the results are compared.
- The tensile strength of the exposed samples must remain within ±30% of the unexposed (reference) samples to be considered acceptable.

4. TEST RESULTS

" TEST RESCETS					
Test Specimen	pH Value of	pH Value of	Tensile Strength	Tensile Strength	Variaton on
	Solution	Solution	Without	After	Tensile
			Immersion	Immersion	Strength
	(1st Day)	(7 th Day)	(N/mm2)	(N/mm2)	(%)
H1Z2Z2-K EBXL 1x6	11	11 5	10	40	16
mm2 RED	11	11,5	12	10	10

4.1 Test Result: PASSED

Quality Control Responsible	Quality Assurance Manager
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