



**SLOVENSKI STANDARD**  
**SIST EN 6059-305:2019**

**01-september-2019**

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**Aeronavtika - Električni kabli, namestitvev - Zaščitne obojke - Preskusne metode - 305. del: Absorpcija tekočine**

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 305: Fluid absorption

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 305: Flüssigkeitsaufnahme

Série aérospatiale - Câbles électriques, installation - Gaiques de protection - Méthodes d'essais - Partie 305 : Absorption des fluides

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**Ta slovenski standard je istoveten z: EN 6059-305:2019**

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**ICS:**

29.060.20	Kabli	Cables
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

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EUROPEAN STANDARD

EN 6059-305

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

ICS 49.060

English Version

## Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 305: Fluid absorption

Série aérospatiale - Câbles électriques, installation -  
Gaines de protection - Méthodes d'essais - Partie 305 :  
Absorption des fluides

Luft- und Raumfahrt - Elektrische Leitungen,  
Installation - Schutzschläuche - Prüfverfahren - Teil  
305: Flüssigkeitsaufnahme

This European Standard was approved by CEN on 6 January 2019.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

**iTeh STANDARD PREVIEW**

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

<b>Contents</b>		<b>Page</b>
	European foreword .....	3
1	Scope.....	4
2	Normative references.....	4
3	Terms and definitions .....	4
4	Apparatus.....	4
5	Method .....	5
6	Requirements.....	5

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## European foreword

This document (EN 6059-305:2019) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2019, and conflicting national standards shall be withdrawn at the latest by December 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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**EN 6059-305:2019 (E)****1 Scope**

This document specifies a method to verify the fluid repellent properties of protection sleeve for electrical cable and cable bundles. It shall be used together with EN 6059-100.

**2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 6059-100, *Aerospace series — Electrical cables, installation — Protection sleeves — Test methods — Part 100: General*

ISO 3696, *Water for Analytical laboratory use — Specification and test methods* <sup>1)</sup>

**3 Terms and definitions**

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

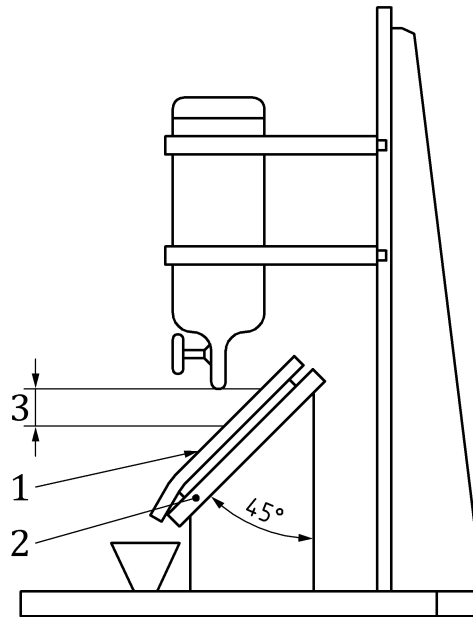
**4 Apparatus**

A specimen with a length of 40 mm to 60 mm shall be used. For tubular sleeves only, the specimen shall be prepared as a flat part by cutting through the sleeve in longitudinal direction. The cutting area shall be fixed by application of tape or adhesive to avoid debraiding of the specimen (if applicable). If water is used, it shall be distilled or demineralised water according to ISO 3696 Type 2.

To achieve a controlled drip a bottle or a pump shall be used. It shall be provided with a minimum drip aperture of 2,5 mm. The fixture to apply the specimen and bottle or pump with a drip aperture as given in Figure 1 shall be used. The distance between the aperture and the specimen shall be minimum 70 mm. The number of drops delivered per minute should be comprised between 20 to 25 and the volume of water delivered per minute of a minimum of 1,35 ml.

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1) Published by: International Organization for Standardization (ISO), <https://www.iso.org/>



### Key

- 1 Specimen under test
- 2 Piece of absorbing material under the specimen
- 3 70 mm minimum between aperture and specimen

**Figure 1** — Equipment for fluid absorption test

## 5 Method

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The test shall be carried out with fluids specified in the product standard.

The specimen shall be placed on exposure table which is covered with a dry piece of absorbing material.

At the place of dripping, the specimen shall contact the piece of absorbing material with a load as less as possible. The specimen shall be maintained flat and in contact on the absorbing material in the dripping area by applying pressure on both sides of the specimen but no specific pressure in the dripping area.

Piece of absorbing material used to record water intake should change colour or shade on contact with water.

The drip frequency shall be adjusted between 20 drips/min and 25 drips/min. If a bottle is used, it shall be filled regularly.

## 6 Requirements

The piece of absorbing material shall be free of the fluid after the drip time which is specified in the product standard. The results shall be recorded within five (5) min following the end of the dripping.

Except otherwise specified in product standard, when marking on cores is performed, each core shall be marked with its own designation.