



**SLOVENSKI STANDARD**  
**SIST EN 6059-401:2022**

**01-julij-2022**

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**Aeronavtika - Električni kabli, namestitvev - Zaščitne obojke - Preskusne metode - 401. del: Območje razširitve**

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 401: Expansion range

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 401: Ausdehnungsbereich

Série aérospatiale - Câbles électriques, installation - Gaines de protection - Méthodes d'essais - Partie 401 : Gamme d'expansion

**Ta slovenski standard je istoveten z: EN 6059-401:2022**

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**ICS:**

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

**SIST EN 6059-401:2022**

**en,fr,de**

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EUROPEAN STANDARD

EN 6059-401

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2022

ICS 49.060

English Version

## Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 401: Expansion range

Série aérospatiale - Câbles électriques, installation -  
Gaines de protection - Méthodes d'essais - Partie 401 :  
Gamme d'expansion

Luft- und Raumfahrt - Elektrische Leitungen,  
Installation - Schutzschläuche - Prüfverfahren - Teil  
401: Ausdehnungsbereich

This European Standard was approved by CEN on 10 January 2022.

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.

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.

CEN members are the national standards bodies of 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 United Kingdom.

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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

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## European foreword

This document (EN 6059-401:2022) 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 document 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 document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.

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 document: 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 6059-401:2022 (E)****1 Scope**

This document specifies a method to determine the expansion range of protection sleeve for electrical cable and cable bundles, it is used together with EN 6059-100.

**2 Normative references**

There are no normative references in this document.

**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:

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

**4 Preparation of specimens**

A specimen with a minimum length of 300 mm is taken from a finished sleeve.

**5 Apparatus**

Mandrels with a minimum length of 350 mm and diameters equivalent to the maximum and minimum of the specimen.

**6 Method**

To test the maximum diameter of the sleeve, the specimen shall be slid over the mandrel with a diameter which is the maximum diameter of the specimen specified in the product standard.

To test the minimum diameter of the sleeve, the specimen shall be slid over the mandrel with a diameter which is the minimum diameter of the specimen specified in the product standard. The sleeve shall be stretched by hand.

**7 Requirements**

Maximum diameter test: the specimen can be slid over the mandrel.

Minimum diameter test: the specimen is fixed on the mandrel by stretching the sleeve.

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