

SLOVENSKI STANDARD

SIST EN 6059-100:2015

01-september-2015

Nadomešča:

SIST EN 6059-100:2012

Aeronavtika - Električni kabli, namestitve - Zaščitne obojke - Preskusne metode - 100. del: Splošno

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 100: General

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 100: Allgemeines

Série aérospatiale - Câbles électriques, installation - Gaines de protection - Méthodes d'essais - Partie 100: Généralités

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Ta slovenski standard je istoveten z: EN 6059-100:2015

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

SIST EN 6059-100:2015

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 6059-100

June 2015

ICS 49.060

Supersedes EN 6059-100:2011

English Version

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

Série aérospatiale - Câbles électriques, installation - Gains
de protection - Méthodes d'essais - Partie 100: Généralités

Luft- und Raumfahrt - Elektrische Leitungen, Installation -
Schutzschläuche - Prüfverfahren - Teil 100: Allgemeines

This European Standard was approved by CEN on 29 November 2014.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, 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

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European foreword

This document (EN 6059-100:2015) 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 2015, and conflicting national standards shall be withdrawn at the latest by December 2015.

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

This document supersedes EN 6059-100:2011.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 6059-100:2015 (E)**1 Scope**

This European Standard specifies the general test methods and qualification for protection sleeves for cables and cable bundles for aerospace applications.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 3844-1, *Aerospace series — Flammability of non metallic materials — Part 1: Small burner test, vertical — Determination of the vertical flame propagation*

EN 6049-001, *Aerospace series — Electrical cables, installation — Protection sleeve in meta-aramid fibres — Part 001: Technical specification* ¹⁾

EN 6059 (all parts), *Aerospace series — Electrical cables, installation — Protection sleeves — Test methods* ¹⁾

3 Terms and definitions

For the purpose of this standard, the terms and definitions given in EN 6049-001 apply.

4 Test conditions

The tests shall be carried out under the following atmospheric conditions:

- Ambient temperature shall be $(20 \pm 5) ^\circ\text{C}$.
- Relative humidity shall be between 45 % and 75 %.

5 Reporting results

The following details shall be reported:

- Approved drawings.
- Type and size code.
- Length of specimen if this not specified in the test method or if there is a deviation with respect to the test method.

1) Published as ASD-STAN Prestandard at the date of publication of this standard. <http://www.asd-stan.org/>

6 List of test methods

See Table 1 to Table 5 hereafter.

Table 1 — General tests

EN 6059-	Title
201	Visual examination
202	Dimensions and mass
203	Coverage

Table 2 — Environmental tests

EN 6059-	Title
301	Sun light exposure
302	High temperature exposure
303	Resistance to fluids
304 or EN 3844-1	Flammability
305	Fluid absorption
306	Mould growth
307	Ageing
308	Rapid change of temperature
309	Fire resistance when fitted on a cable bundle

Table 3 — Mechanical tests

EN 6059-	Title
401	Expansion range
402	Bending properties
403	Scrape abrasion
404	Tensile strength
405	Dynamic cut-through
406	Vibration

Table 4 — Electrical tests

EN 6059-	Title
501	Voltage proof test
502	Resistance to electrical arcs
503	Temperature rise due to rated current injected on the sleeve
504	Temperature rise within a loom due to self-heating when within a protective sleeve

Table 5 — Fitting tests

EN 6059-	Title
601	Open and close
602	Marking durability

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