



SLOVENSKI STANDARD SIST EN 6059-601:2014

01-julij-2014

Aeronavtika - Električni kabli, namestitvev - Zaščitne obojke - Preskusne metode - 601. del: Zaprte in odprte

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 601: Open and close

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 601: Öffnen und Schließen

Série aérospatiale - Câbles électriques, installation - Gainses de protection - Méthodes d'essais - Partie 601: Ouverture et fermeture

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Ta slovenski standard je istoveten z: EN 6059-601:2014

ICS:

49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems
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EUROPEAN STANDARD

EN 6059-601

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2014

ICS 49.060

English Version

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 601: Open and close

Série aérospatiale - Câbles électriques, installation - Gainses de protection - Méthodes d'essais - Partie 601: Ouverture et fermeture

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 601: Öffnen und Schließen

This European Standard was approved by CEN on 4 January 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.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 6059-601:2014) 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 October 2014, and conflicting national standards shall be withdrawn at the latest by October 2014.

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.

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 6059-601:2014 (E)**1 Scope**

This European Standard specifies a method of assessing the behaviour of protection sleeves or conduits subject to open and close manipulation for installation, rework and repairs.

It shall be used together with EN 6059-100.

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.

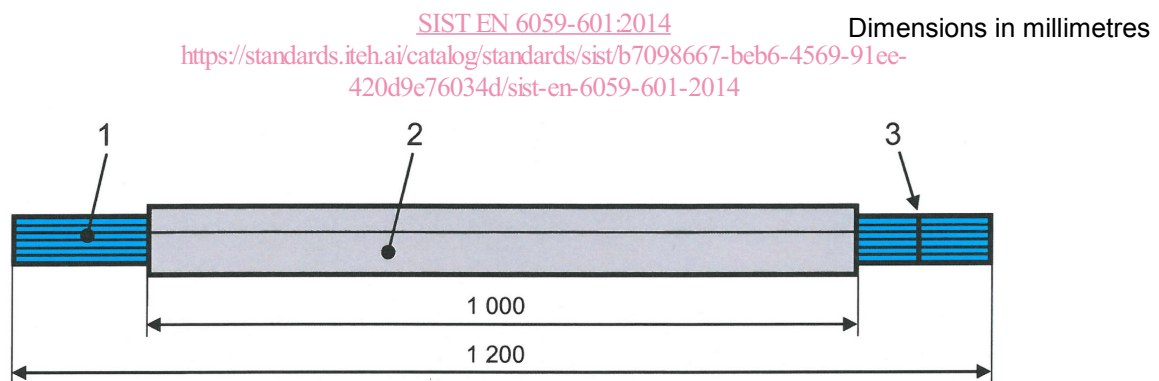
EN 6059-100, *Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 100: General*

3 Preparation of specimens

Each specimen having 1,0 m length shall be placed horizontally on a table.

A harness made of standard aerospace wires, having 1,2 m length, with a diameter defined as the maximum diameter applicable on the specimen size.

The test shall be carried out at ambient temperature T_a (typically 20 °C).

**Key**

- 1 Wire bundle
- 2 Sleeve
- 3 Bundle at the maximum allowed diameter of the sleeve

Figure 1 — Specimen configuration

4 Method

The purpose of this test shall be to check that there is no damage, no loss of memory form performance, no wires or filaments broken on the sleeve specimen.

The test shall be performed on the smallest size and a medium size as defined in the concerned specification or product standard.

Using the installation tool defined by the manufacturer, the wire bundle will be installed X time (X defined in the product standard) inside the sleeve, and removed from the sleeve.

Phase 1: Insert tooling inside the sleeve, see Figure 2.



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Figure 2

Phase 2: Install the sleeve on the wire bundle with the tooling, see Figure 3.
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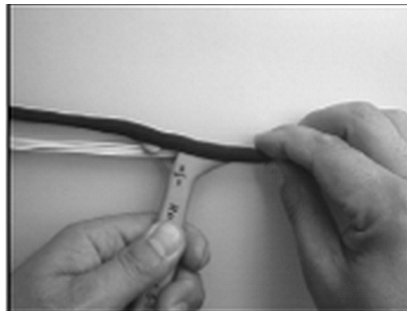
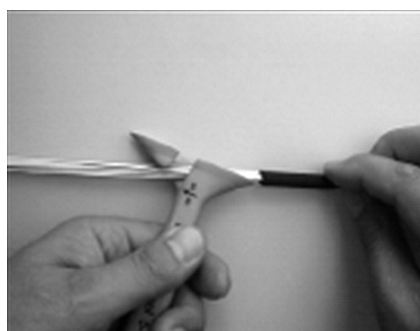


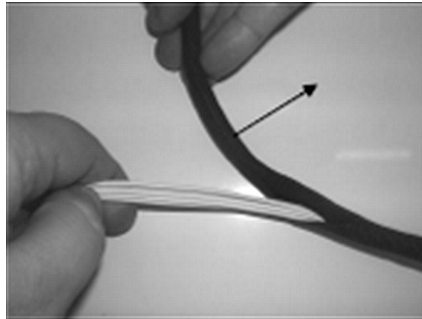
Figure 3

Phase 3: Remove the tooling from the extremity of the sleeve, see Figure 4.



EN 6059-601:2014 (E)**Figure 4**

Phase 4: Remove the sleeve from the wire bundle by pulling the sleeve, see Figure 5.

**Figure 5****5 Requirements**

Visual control of the specimen after installation and dismantling cycles:

- No visible damage, broken wires or broken filaments;
- No degradation of the inside layer, in case of protective inside layer such as PTFE tape;
- The maximum diameter tracer indicator, must be not visible, to confirm the correct function of the memory form of the specimen.

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