



SLOVENSKI STANDARD

SIST EN 6059-308:2015

01-februar-2015

Aeronavtika - Električni kabli, namestitve - Zaščitne obojke - Preskusne metode - 308. del: Hitra sprememba temperature

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 308: Rapid change of temperature

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 308: Schneller Temperaturwechsel

Série aérospatiale - Câbles électriques, installation - Gains de protection - Méthodes d'essais - Partie 308: Variation rapide de température

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Ta slovenski standard je istoveten z: EN 6059-308:2014

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 6059-308

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ICS 49.060

English Version

Aerospace series - Electrical cables, installation - Protection sleeves - Test methods - Part 308: Rapid change of temperature

Série aérospatiale - Câbles électriques, installation - Gainses de protection - Méthodes d'essais - Partie 308: Variation rapide de température

Luft- und Raumfahrt - Elektrische Leitungen, Installation - Schutzschläuche - Prüfverfahren - Teil 308: Schneller Temperaturwechsel

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
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Foreword

This document (EN 6059-308:2014) 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 June 2015, and conflicting national standards shall be withdrawn at the latest by June 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.

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 6059-308:2014 (E)**1 Scope**

This European Standard specifies a method of assessing the behaviour of conductive protection sleeves or conduits after exposure to a rapid change of temperature.

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 3475-301, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 301: Ohmic resistance per unit length*

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

3 Preparation of specimens

Each sleeve or conduit specimen shall have a length of 600 mm minimum, and shall be prepared according to Figure 1.

The cable bundle shall be made of standard aerospace cables, according to Figure 1. The diameter of the bundle shall be the maximum diameter applicable to the used sleeve or conduit.

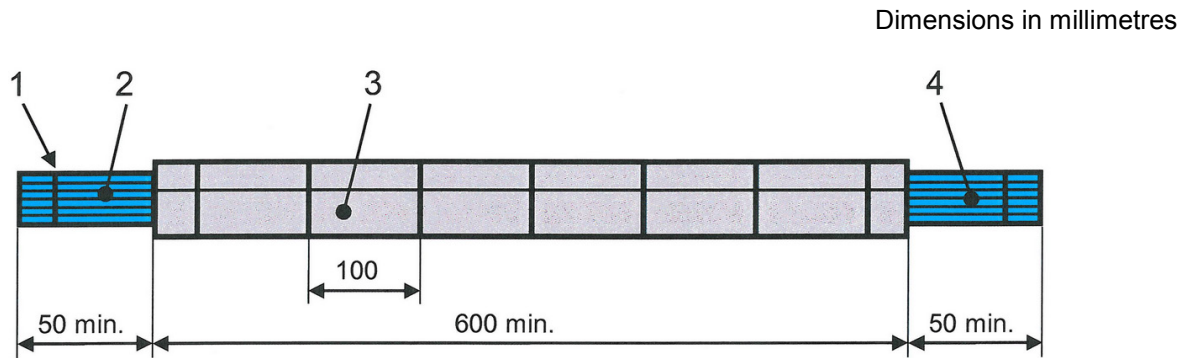
Then apply a twisting with the number of twists per metre, as specified in the product standard.

The cable bundle and the twisted sleeve shall be tied using standard aerospace tying devices compliant with the temperature range.

The tying devices on the cable bundle shall be installed with a pitch of 300 mm.

The tying devices on the sleeve shall be installed with a pitch of 100 mm.

Measure the ohmic resistance of each specimen according to EN 3475-301, tests shall be carried out at ambient temperature T_a (typically 20 °C).



Key

- 1 Tying device
- 2 Cable bundle
- 3 Sleeve
- 4 Bundle at the maximum allowed diameter of the sleeve

Figure 1 — Specimen configuration

4 Apparatus

Two chambers, one for low temperature and one for high temperature, shall be provided.

The chambers shall be located that the time of transfer (t_2) of the specimen from one chamber to the other shall be less than 1 min.

The chambers shall be capable of maintaining the specified temperatures (T_A and T_B) to $\pm 3\%$ at those locations where the specimens are installed.

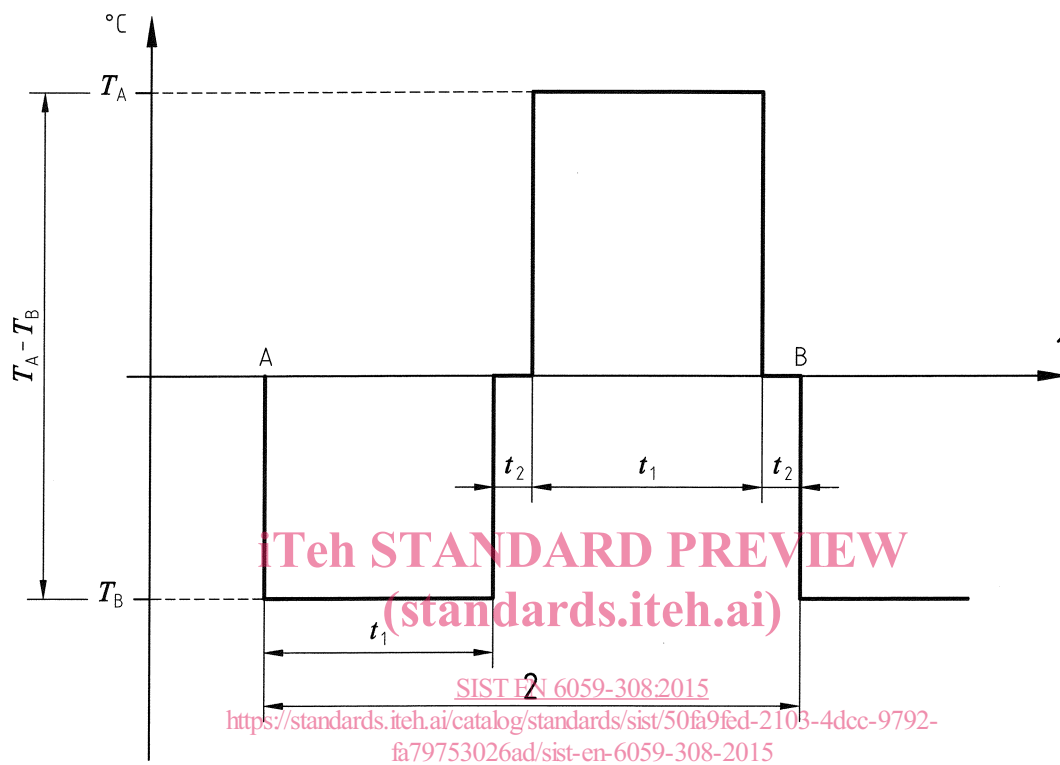
The volume of the chambers shall be such that after insertion of the specimens, the temperature shall be within the specified tolerances after a time of not more than 5 min or 10 % of the exposure time, whichever is the smallest.

Unless otherwise specified, the thermal conduction of the mounting shall be sufficiently low, so that the specimens may be considered thermally isolated.

5 Method

The specimen shall be installed in an oven and subjected to a temperature cycling defined in Figure 2.

The number of cycles shall be 10.



Keys

- 1 Time t min.
- 2 1 cycle

A: start of the first cycle

$$t_1 = 30$$

$$t_2 < 1 \text{ min.}$$

B: end of first cycle

Figure 2 — Temperature cycle

6 Requirements

The pass/fail requirements shall be specified in the product standard.