



**SLOVENSKI STANDARD
SIST EN 3475-401:2004**

01-maj-2004

**Aerospace series - Cables, electrical, aircraft use - Test Methods - Part 401:
Accelerated ageing**

Aerospace series - Cables, electrical, aircraft use - Test Methods - Part 401: Accelerated ageing

Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt, Verwendung - Prüfverfahren - Teil 401: Beschleunigte Alterung

Série aérospatiale - Câbles électriques a usage aéronautique - Méthodes d'essai - Partie 401: Vieillessement accéléré

<https://standards.iteh.ai/catalog/standards/sist/27cf2089-d91f-4a01-bcbe-cb5bae7814f3/sist-en-3475-401-2004>

Ta slovenski standard je istoveten z: EN 3475-401:2002

ICS:

49.060 Številni sistemi za letalsko opremo in sisteme
Aerospace electric equipment and systems

SIST EN 3475-401:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 3475-401

January 2002

ICS 49.060

English version

**Aerospace series - Cables, electrical, aircraft use - Test
Methods - Part 401: Accelerated ageing**

Série aérospatiale - Câbles électriques à usage
aéronautique - Méthodes d'essai - Partie 401:
Vieillesse accélérée

Luft- und Raumfahrt - Elektrische Leitungen für Luftfahrt,
Verwendung - Prüfverfahren - Teil 401: Beschleunigte
Alterung

This European Standard was approved by CEN on 6 August 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN 3475-401:2004](https://standards.iteh.ai/catalog/standards/sist/27cf2089-d91f-4a01-bcbe-cb5bae7814f3/sist-en-3475-401-2004)

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN 3475-401:2002) has been prepared by the European Association of Aerospace Manufacturers (AECMA).

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 AECMA, 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 July 2002, and conflicting national standards shall be withdrawn at the latest by July 2002.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard : Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies a method of determining the effects of accelerated ageing on a finished cable. It shall be used together with EN 3475-100.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 3475-100	Aerospace series – Cables, electrical, aircraft use – Test methods – Part 100: General
EN 3475-302	Aerospace series – Cables, electrical, aircraft use – Test methods – Part 302: Voltage proof test
EN 3475-405	Aerospace series – Cables, electrical, aircraft use – Test methods – Part 405: Bending at ambient temperature

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3 Preparation of specimens (standards.iteh.ai)

3.1 Insulated conductor

On a specimen 750 mm long, the two ends are stripped over 25 mm and the load defined in the technical specification is fixed to each end. [SIST EN 3475-401:2004](https://standards.iteh.ai/catalog/standards/sist-en-3475-401-2004)
<https://standards.iteh.ai/catalog/standards/sist-en-3475-401-2004>
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3.2 Screened and jacketed cables

On a specimen 750 mm long, the jacket is stripped over 25 mm each end.

4 Apparatus

A horizontal mandrel, whose diameter is given in the technical specification and a natural convection oven, shall be necessary for this test.

5 Method

5.1 Insulated conductor

The central part of the specimen shall be placed on a horizontal mandrel so that the part of the covering between the conductor and the mandrel is under compression. See figure 1.

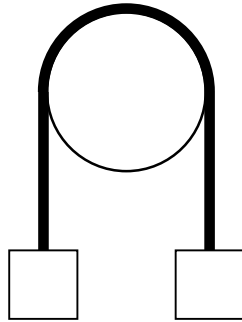


Figure 1

5.2 Screened and jacketed cables

The jacket shall be stripped at each end and the load defined in the technical specification shall be fixed to the screen (with insulated conductor inside) at both ends. The central portion of the specimen shall be placed over a horizontal mandrel such that the portion of jacket between the mandrel and the screen is under compression.

See figure 1.

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5.3 Procedure

The mandrel and specimen shall be placed in a natural air convection oven for 168 h at the temperature given in the product standard. At the end of the cycle, cool the specimen and mandrel to ambient temperature and maintain them at this temperature for a least 1 h. Remove the applied loads, remove the cable from the mandrel and straighten it.

5.4 Requirements

The aged specimen shall pass the bending test at ambient temperature in accordance with EN 3475-405 and the voltage proof test in accordance with EN 3475-302.