



**SLOVENSKI STANDARD
SIST EN 2591-6401:2004**

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6401: Optical elements - Acceleration steady state

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6401: Optical elements - Acceleration steady state

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6401: Optische Verbindungselemente - Konstante Beschleunigung

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6401 : Organes optiques - Accélération constante

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Ta slovenski standard je istoveten z: EN 2591-6401:2001

ICS:

49.060 Štejni in optični elementi za povezavo električnih in optičnih sistemov v letalstvu in vesoljski tehniki
Aerospace electric equipment and systems

SIST EN 2591-6401:2004

en

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EUROPEAN STANDARD

EN 2591-6401

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2001

ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 6401: Optical elements - Acceleration
steady state**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 6401: Organes
optiques - Accélération constante

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 6401: Optische
Elemente - Konstante Beschleunigung

This European Standard was approved by CEN on 5 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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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 European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries 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 June 2002, and conflicting national standards shall be withdrawn at the latest by June 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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies a method of determining the ability of optical connection elements (including permanent connections) and fibre optic couplers to withstand continuous acceleration.

It shall be used together with EN 2591-100.

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 2591-100	Aerospace series – Elements of electrical and optical connection – Test methods – Part 100: General ¹⁾
EN 2591-401	Aerospace series – Elements of electrical and optical connection – Test methods – Part 401: Acceleration steady state
EN 2591-408	Aerospace series – Elements of electrical and optical connection – Test methods – Part 408: Mating and unmating forces
EN 2591-602	Aerospace series – Elements of electrical and optical connection – Test methods – Part 602: Optical elements - Variation of attenuation and optical discontinuity
EN 2591-6101	Aerospace series – Elements of electrical and optical connection – Test methods – Part 6101: Optical elements – Visual examination

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3 Preparation of specimens

3.1 Specimens shall be fitted with normal accessories and terminated with optical cable/fibre in accordance with the product standard.

3.2 Unless indicated in the technical specification, the following details shall be specified:

See EN 2591-401 (if applicable) plus:

- maximum permissible variation of attenuation;
- type and length of cable/fibre.

4 Apparatus

See EN 2591-401 and EN 2591-602.

1) Published as AECMA Prestandard at the date of publication of the present standard

EN 2591-6401:2001 (E)

5 Method

5.1 Initial measurements (if applicable)

EN 2591-401

5.2 Acceleration level

EN 2591-401

5.3 Procedure

Unless otherwise specified in the product standard, the specimens shall be submitted to the specified acceleration for 5 min along each direction of the three tri-rectangular axes (total 30 min).

The variation of attenuation (EN 2591-602) shall be monitored continuously throughout the test and shall not exceed the value specified in the product standard.

The specimens shall reach the specified acceleration value within 1 min.

5.4 Final measurements and requirements (if applicable)

- The specimens shall satisfy requirements in the product standard.
- EN 2591-6101
- EN 2591-408

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