



**SLOVENSKI STANDARD  
SIST EN 2591-6404:2004**

**01-maj-2004**

**Aerospace series - Elements of electrical and optical connection - Test methods - Part 6404: Optical elements - Transverse load**

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6404: Optical elements - Transverse load

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6404: Optische Verbindungselemente - Querkraft

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6404 : Organes optiques - Charge transversale

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**Ta slovenski standard je istoveten z: EN 2591-6404:2001**

**ICS:**

49.060 Štejni in optični oprema za letalstvo in vesolje  
Aerospace electric equipment and systems

**SIST EN 2591-6404:2004**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 2591-6404**

December 2001

ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection  
- Test methods - Part 6404: Optical elements - Transverse load**

Série aérospatiale - Organes de connexion électrique et  
optique - Méthodes d'essais - Partie 6404: Organes  
optiques - Charge transversale

Luft- und Raumfahrt - Elektrische und optische  
Verbindungselemente - Prüfverfahren - Teil 6404: Optische  
Elemente - Querkraft

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 assessing the ability of a mated pair of optical connection elements (including permanent connections) and fibre optic couplers to withstand transverse loads without mechanical or optical damage.

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 <sup>1)</sup>
EN 2591-205	Aerospace series – Elements of electrical and optical connection – Test methods – Part 205: Housing (shell) electrical continuity
EN 2591-404	Aerospace series – Elements of electrical and optical connection – Test methods – Part 404: Transverse load
EN 2591-408	Aerospace series – Elements of electrical and optical connection – Test methods – Part 408: Mating and unmating forces
EN 2591-601	Aerospace series – Elements of electrical and optical connection – Test methods – Part 601: Optical elements – Insertion loss
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

## 3 Preparation of specimens

**3.1** Specimens shall be fitted with normal accessories, mounted and terminated in accordance with the product standard.

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

See EN 2591-404 (if applicable) plus:

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

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

EN 2591-6404:2001 (E)

## 4 Apparatus

See EN 2591-404 and EN 2591-601.

## 5 Method

### 5.1 Procedure

See EN 2591-404, plus:

- the variation of attenuation (EN 2591-602) shall be monitored continuously throughout the test;
- if specified by the product standard, electrical continuity of the housings shall be checked in accordance with EN 2591-205 throughout the test.

### 5.2 Final measurements and requirements

EN 2591-6101

EN 2591-408

EN 2591-601

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