SLOVENSKI STANDARD
SIST EN 2591-6405:2004

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Aerospace series - Elements of electrical and optical connection - Test methods - Part 6405: Optical elements - Axial load

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6405: Optische Verbindungselemente - Axialkraft

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6405 : Organes optiques - Charge axiale

Ta slovenski standard je istoveten z: **EN 2591-6405:2001**

ICS:

49.060	Letalska in vesoljska elektriļ na oprema in sistemi	Aerospace electric equipment and systems

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EUROPEAN STANDARD

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Aerospace series - Elements of electrical and optical connection - Test methods - Part 6405: Optical elements - Axial load

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6405: Organes optiques - Charge axiale

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6405: Optische Elemente - Axialkraft

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.

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

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

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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 axial 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 [1)]
EN 2591-205	Aerospace series – Elements of electrical and optical connection – Test methods – Part 205: Housing (shell) electrical continuity
EN 2591-405	Aerospace series – Elements of electrical and optical connection – Test methods – Part 405: Axial 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 2591-405 (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

4 Apparatus

See EN 2591-405 and EN 2591-602.

5 Method

5.1 Procedure

See EN 2591-405, 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 (if applicable)

EN 2591-6101

EN 2591-408

EN 2591-601