SLOVENSKI STANDARD
SIST EN 2591-6406:2004

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6406: Optical elements - Mechanical endurance

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6406: Optische Verbindungselemente - Mechanische Lebensdauer

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6406 : Organes optiques - Endurance mécanique

Ta slovenski standard je istoveten z: **EN 2591-6406:2001**

ICS:

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

SIST EN 2591-6406:2004 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 2591-6406

December 2001

ICS 49.060

English version

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6406: Optical elements - Mechanical endurance

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6406: Organes optiques - Endurance mécanique

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6406: Optische Elemente - Mechanische Lebensdauer

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

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 evaluating the operational mechanical endurance of optical connection elements with optical contacts.

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 2591-312	Aerospace series – Elements of electrical and optical connection – Test methods – Part 312: Air leakage
EN 2591-313	Aerospace series – Elements of electrical and optical connection – Test methods – Part 313: Driving rain (artificial)
EN 2591-406	Aerospace series – Elements of electrical and optical connection – Test methods – Part 406: Mechanical endurance
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 2591-6101	Aerospace series – Elements of electrical and optical connection – Test methods – Part 6101: Optical elements – Visual examination
EN 2591-6314	Aerospace series – Elements of electrical and optical connection – Test methods – Part 6314: Optical elements - Immersion at low air pressure

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 2591-406 (if applicable) plus:

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

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

4 Apparatus

See EN 2591-406 and EN 2591-601.

5 Method

5.1 Procedure

See EN 2591-406, plus:

- insertion loss (EN 2591-601) after number of cycles as defined in the product standard;
- number of cycles before cleaning and method of cleaning to be specified in the product standard.

5.2 Final measurements and requirements (if applicable)

EN 2591-6101

EN 2591-601

EN 2591-205

EN 2591-408

EN 2591-312

EN 2591-313

EN 2591-6314