

**Aerospace series - Elements of
electrical and optical connection Test
methods - Part 6301: Optical elements-
Endurance at temperature**

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optical connection Test methods - Part 6301:
Optical elements- Endurance at temperature

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 2591-6301:2002 sisaldab Euroopa standardi EN 2591-6301:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.01.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 2591-6301:2002 consists of the English text of the European standard EN 2591-6301:2001.</p> <p>This document is endorsed on 16.01.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This standard specifies a method of checking the ability of optical connection elements (including permanent connections) and fibre optic couplers to withstand elevated temperature.</p>	<p>Scope: This standard specifies a method of checking the ability of optical connection elements (including permanent connections) and fibre optic couplers to withstand elevated temperature.</p>
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ICS 49.060

Võtmesõnad: aerospace transport, air transport, electrical, electrical installations, electrically-operated devices, fasteners, optical, space transport, temperature measurement, temperature stability, testing

ICS 49.060

English version

Aerospace series - Elements of electrical and optical connection
- Test methods - Part 6301: Optical elements - Endurance at
temperature

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 6301: Organes
optiques - Endurance en température

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 6301: Optische
Elemente - Temperaturbeständigkeit

This European Standard was approved by CEN on 4 June 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

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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 May 2002, and conflicting national standards shall be withdrawn at the latest by May 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 checking the ability of optical connection elements (including permanent connections) and fibre optic couplers to withstand elevated temperatures.

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 2591-301	Aerospace series – Elements of electrical and optical connection – Test methods – Part 301: Endurance at temperature
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
EN 2591-6409	Aerospace series – Elements of electrical and optical connection – Test methods – Part 6409: Optical elements – Contact retention in insert ²⁾

3 Preparation of specimens

3.1 Specimens shall be fitted with normal accessories and terminated in accordance with the product standard. Cavities with unterminated contacts shall have filler plugs fitted (where applicable). The contacts shall be connected in series and the optical connection elements shall be mated (where applicable).

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

See EN 2591-301 (if applicable) plus:

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

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

2) In preparation at the date of publication of this standard