



**SLOVENSKI STANDARD
SIST EN 2591-6314:2004**

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6314: Optical elements - Immersion at low air pressure

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6314: Optical elements - Immersion at low air pressure

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6314: Optische Elemente - Tauchen bei Unterdruck

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6314 : Organes optiques - Immersion a basse pression atmosphérique

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Ta slovenski standard je istoveten z: EN 2591-6314:2001

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 2591-6314:2004

en

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EUROPEAN STANDARD

EN 2591-6314

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2001

ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 6314: Optical elements - Immersion at low
air pressure**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 6314: Organes
optiques - Immersion à basse pression atmosphérique

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 6314: Optische
Elemente - Tauchen bei Unterdruck

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.

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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 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 sealing of optical connection elements (including permanent connections) and fibre optic couplers exposed to low pressure.

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 2591-314	Aerospace series – Elements of electrical and optical connection – Test methods – Part 314: Immersion at low air pressure
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

3 Preparation of specimens

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

This test applies to mated optical connection elements or unmated elements with protective covers.

Cavities with unterminated contacts shall have filler plugs fitted (where applicable).

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

See EN 2591-314 (if applicable) plus:

- number of specimens;
- type and length of cable/fibre;
- maximum value of insertion loss (EN 2591-601).

4 Apparatus

See EN 2591-314.

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

EN 2591-6314:2001 (E)

5 Method

5.1 Initial measurements (if applicable)

See EN 2591-314, plus insertion loss (EN 2591-601).

5.2 Procedure

See EN 2591-314.

Low air pressure as in EN 2591-314

5.3 Final measurements and requirements (if applicable)

5.3.1 Insertion loss (EN 2591-601)

After the third cycle the insertion loss shall be measured.

5.3.2 Visual examination (EN 2591-6101)

Immediately after the above test, remove the specimen from the low air pressure chamber and unmate it carefully.

It shall be visually examined with particular attention to the following:

- conditions of seals;
- condition of optical surfaces.

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