SLOVENSKI STANDARD
SIST EN 2591-6307:2004

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6307: Optical elements - Salt mist

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6307: Optical elements - Salt mist

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6307: Optische Elemente - Salznebel

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6307 : Organes optiques - Brouillard salin

Ta slovenski standard je istoveten z: **EN 2591-6307:2001**

ICS:

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

SIST EN 2591-6307:2004 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 2591-6307

November 2001

ICS 49.060

English version

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6307: Optical elements - Salt mist

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6307: Organes optiques - Brouillard salin

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 6307: Optische Elemente - Salzнebel

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

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

Ref. No. EN 2591-6307:2001 E

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 assessing the effects of a controlled salt laden atmosphere on optical connection elements (including permanent connections) and fibre optic couplers.

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 2591-307	Aerospace series – Elements of electrical and optical connection – Test methods – Part 307: Salt mist
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

3 Preparation of specimens

3.1 Optical connection elements shall be fitted with terminated contacts and mounted as defined in the product standard.

When required by the product standard, elements of connection shall be mated and unmated the specified number of times.

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

See EN 2591-307 (if applicable) plus:

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

4 Apparatus

Salt mist constitution: see EN 2591-307.

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

5 Method

5.1 Initial measurements

See EN 2591-307.

5.2 Procedure

See EN 2591-307.

5.3 Recovery

The specimens shall be washed in running water (demineralized) and dried. For optical connection elements tested unmated, the optical surfaces shall be cleaned with a suitable optical cleaning agent, as defined in the product standard.

5.4 Final measurements and requirements (if applicable)

The specimens shall be submitted to the following tests and shall meet the requirements of the product standard.

a) EN 2591-6101 – Visual examination, paying particular attention to:
   1) cracking,
   2) flaking or peeling of the plating,
   3) pitting of exposed metal surfaces,
   4) deterioration of optical surfaces;

b) EN 2591-601 – Insertion loss;

c) EN 2591-205 – Housing (shell) electrical continuity (if applicable);

d) EN 2591-408 – Mating and unmating forces.