SLOVENSKI STANDARD
SIST EN 2591-6305:2004

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6305: Optical elements - Rapid change of temperature

Aerospace series - Elements of electrical and optical connection - Test methods - Part 6305: Optical elements - Rapid change of temperature

Luft- und Raumfahrt - Elektrische und optische Verbingungselemente - Prüfverfahren - Teil 6305: Optische Elemente - Schnelle Temperaturwechsel

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Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6305 : Organes optiques - Variations rapides de température

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ICS:

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

SIST EN 2591-6305:2004 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 2591-6305

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English version

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Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 6305: Organes optiques - Variations rapides de température

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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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of an identical text or by endorsement, at the latest by May 2002, and conflicting national standards shall be withdrawn at the latest by May 2002.

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SIST EN 2591-6305:2004

1 Scope

This standard specifies a method of checking the ability of optical connection elements (including permanent connections) and fibre optic couplers to withstand rapid changes of temperature such as might occur during transportation and in operation.

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 2591-305	Aerospace series – Elements of electrical and optical connection – Test methods – Part 305: Rapid change of temperature
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

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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).

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

See EN 2591-305 (if applicable) plus:

- type and length of cable/fibre;
- maximum value of insertion loss;
- maximum permissible variation of attenuation;
- whether EN 2591-602 is monitored throughout test or at the transient stages.

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

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4 Apparatus

See EN 2591-305 and EN 2591-602.

5 Method

5.1 Initial measurements (if applicable)

See EN 2591-305.

5.2 Procedure

See EN 2591-305.
Measure the variation of attenuation (EN 2591-602 – Method A) continuously throughout the test.

5.3 Recovery

See EN 2591-305.

5.4 Final measurements and requirements

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- EN 2591-6101 – Visual examination
- EN 2591-408 – Mating and unmating forces
- EN 2591-601 – Insertion loss

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