SLOVENSKI STANDARD
SIST EN 2591-512:2004

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Aerospace series - Elements of electrical and optical connection - Test methods - Part 512: Effectiveness of non-removable fixing of hermetically sealed connector shell

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 512: Wirksamkeit der nicht abnehmbaren Befestigungen der Gehäuse von hermetischen Steckverbindern

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 512: Efficacité de la fixation non démontable du boîtier des connecteurs hermétiques

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This European Standard was approved by CEN on 8 February 2002.

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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 2591-512:2002) has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After enquiries 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of an identical text or by endorsement, at the latest by December 2002, and conflicting national standards shall be withdrawn at the latest by December 2002.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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom

1 Scope

This standard specifies a method of verifying the effectiveness of non-removable fixing of the hermetically sealed connector shell to the equipment shell.

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

EN 2591-322 Aerospace series – Elements of electrical and optical connection – Test methods – Part 322: Hermeticity

EN 2591-403 Aerospace series – Elements of electrical and optical connection – Test methods – Part 403: Sinusoidal and random vibration

3 Preparation of specimens

The specimens shall be fixed to the equipment shell or equivalent device in accordance with the assembly instructions in the relevant standard.

4 Detail to be specified

Fixing method: soldering, welding, bonding
Temperature range
Intensity of vibration: method A or B of EN 2591-403
Housing electrical continuity of shell

5 Test method

The specimens shall be subjected to the following test sequence:

- EN 2591-305;
- EN 2591-403 – During this test the specimens shall be coupled to a wired, free connector;
- EN 2591-205;
- EN 2591-322.

The results of this test method shall comply with sanction given in EN 2591-205 and EN 2591-322.

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