

SLOVENSKI STANDARD SIST EN 2591-207:2001

01-januar-2001

Aerospace series - Elements of electrical and optical connection - Test methods -Part 207: Voltage proof test

Aerospace series - Elements of electrical and optical connection - Test methods - Part 207: Voltage proof test

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren -Teil 207: Prüfung der Spannfestigkeit NDARD PREVIEW

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais -

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Ta slovenski standard je istoveten z: EN 2591-207-2001

ICS:

Š^œ•\ǽ§Áş^•[|b\æ Aerospace electric ^|^\dã}ǽ[]!^{ǽ§Áã¢'{ã equipment and systems 49.060

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EUROPEAN STANDARD

EN 2591-207

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 1996

ICS 49.060

Supersedes EN 2591-B7:1993

Descriptors:

aircraft industry, aircraft equipment, connecting equipment, electrical insulating materials, tests, withstand voltage, verification

English version

Aerospace series - Elements of electrical and optical connection - Test methods - Part 207:

Voltage proof test

Série aérospatiale - Organes de connexion DARD PRE Luft- und Raumfahrt - Elektrische und optische électrique et optique - Méthodes d'essais - Verbindungselemente - Prüfverfahren - Teil 207: Partie 207: Essai de tenue en tension standards.iteh.ai

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

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Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

The alphanumerical designation of the parts of EN 2591 has been abandoned for a numerical designation in line with the Internal Regulations of CEN/CENELEC. This European Standard is the integral reproduction of the European Standard EN 2591-B7 after application of this decision, without any other modification than the change in numbering.

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 August 1996, and conflicting national standards shall be withdrawn at the latest by August 1996.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom

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1 Scope

This standard specifies the methods for the voltage proof test on the insulators of mated or unmated elements of connection.

It shall be used together with EN 2591.

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.

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3 Preparation of specimens

3.1 The specimens shall be wired as specified in the technical specification. Tests shall be carried out on elements of connection which are mated or unmated in accordance with the technical specification. Unless otherwise specified in the test concerned, the specimens shall not be cleaned.

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- 3.2 Unless indicated in the technical specification, the following details shall be specified:
 - test method to be used (A, B or C);
 - elements of connection mated or unmated;
 - r.m.s. value of the test voltage specified for the particular test, e.g. environmental, contamination, humidity, air pressure, temperature tests, etc.;
 - maximum permissible leakage current, where applicable.

4 Methods

The a. c. test voltage indicated in the technical specification shall be applied for (60 \pm 5) s per method A, B or C, as specified by the technical specification.

The test voltage shall have a 40 Hz to 60 Hz frequency and application rate shall not exceed 500 V/s.

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4.1 Method A

The test voltage shall be applied in turn between each contact and all the others connected together and to the housing (shell) or the mounting plate.

4.2 Method B

Alternate contacts shall be connected together to form two groups, one including all even numbered contacts, the second all odd numbered contacts, for instance.

The test voltage shall be applied in turn between:

- the first group of contacts and the second group connected to the housing (shell) or the mounting plate;
- the second group of contacts and the first group connected to the housing (shell) or the mounting plate.

In the case of contacts arranged in two or more rows, it may be necessary to form a second arrangement of two groups in order to apply the voltage between all adjacent contacts.

4.3 Method C

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The specimen shall be subjected to the test voltage between two adjacent contacts or between one contact and the housing (shell) having a minimum spacing (ten. a)

4.4 Requirements

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There shall be no breakdown or spark-over and the specified maximum leakage current shall not be exceeded when the test voltage is applied.