



SLOVENSKI STANDARD SIST EN 2591-505:2004

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 505: Contact protection effectiveness (scoop-proof)

Aerospace series - Elements of electrical and optical connection - Test methods - Part 505: Contact protection effectiveness (scoop-proof)

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 505: Wirksamkeit des Kontaktschutzes (scoop-proof)

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 505 : Efficacité de la protection des contacts (scoop-proof)

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Ta slovenski standard je istoveten z: EN 2591-505:2001

ICS:

49.060 Številni sistemi za letalstvo in zrakoplovstvo
Aerospace electric equipment and systems

SIST EN 2591-505:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2591-505

November 2001

ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 505: Contact protection effectiveness
(scoop-proof)**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 505: Efficacité de la
protection des contacts (scoop-proof)

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 505:
Wirksamkeit des Kontaktschutzes (scoop-proof)

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 verifying the effectiveness of the protection of contacts (scoop-proof) used in elements of electrical and optical connection.

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 2591-207	Aerospace series – Elements of electrical and optical connection – Test methods – Part 207: Voltage proof test

3 Preparation of specimens

3.1 Specimens shall be prepared according to the technical specification.

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

- type of cable and definition of specimen wiring;
- for phase B: voltage root mean square value;
- requirements.

4 Method

4.1 Procedure

Phase A

A plug fitted with female contacts shall be presented on a receptacle fitted with male contacts at the most unfavourable angles (see figure 1).

The test shall then be repeated on a specimen with the plug fitted with male contacts and the receptacle fitted with female contacts.

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

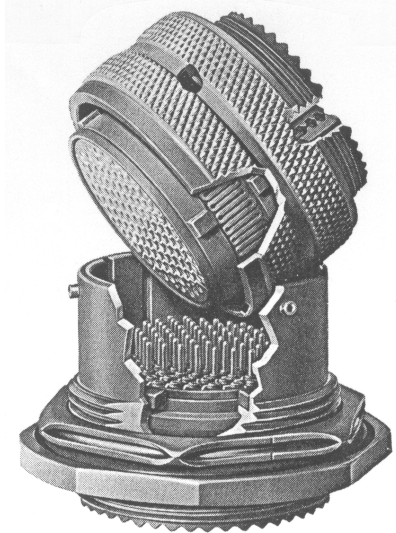


Figure 1 – Example of a phase A test on a cylindrical connector

Phase B

The plug fitted with male contacts shall be mated and locked with the receptacle fitted with male contacts.

The specimens shall be tested according to EN 2591-207, the voltage being applied between each group of contacts, one group consisting of all the contacts in the plug, the second of all contacts in the receptacle.

4.2 Requirements

Phase A

During the operation, no interference shall be observed between the housing (shell) and the contacts.

Phase B

No breakdown shall be observed.

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