



SLOVENSKI STANDARD SIST EN 2591-506:2004

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Aerospace series - Elements of electrical and optical connection - Test methods - Part 506: Use of tools

Aerospace series - Elements of electrical and optical connection - Test methods - Part 506: Use of tools

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 506: Anwendung der Werkzeuge

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 506 : Utilisation des outils

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49.060 Štejni inštrumenti in oprema za letalstvo in zrakoplovstvo
Aerospace electric equipment and systems

SIST EN 2591-506:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2591-506

November 2001

ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 506: Use of tools**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 506: Utilisation des
outils

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 506:
Anwendung der Werkzeuge

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 checking the ability of elements of electrical and optical connection to withstand the use of the tools for insertion and extraction of contacts.

It shall be used together with EN 2591-100.

2 Normatives 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 2591-101	Aerospace series – Elements of electrical and optical connection – Test methods – Part 101: Visual examination
EN 2591-409	Aerospace series – Elements of electrical and optical connection – Test methods – Part 409: Contact retention in insert

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3 Preparation of specimens

3.1 Specimens shall be prepared according to the technical specification.
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3.2 Unless specified in the technical specification, the following details shall be stated:

- type of cable and definition of specimen wiring;
- tools for insertion of contacts;
- tools for extraction of contacts;
- initial measurements (if applicable);
- axial loads to be applied on the tools for phases 1 and 2;
- value of the contact retention force according to EN 2591-409;
- final measurements (if applicable).

4 Method

4.1 Number of cavities to be tested per contact size

For each phase five cavities of each contact size shall be tested. For contact arrangements containing less than 10 contacts, all contacts shall be tested such that phases 1 and 2 are equal.

The cavities which have been used for the tests in one phase shall not undergo another test.

4.2 Initial measurements (if applicable)

They shall be carried out as specified.

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

4.3 Procedure

Phase 1 - Rotation of the extraction tool

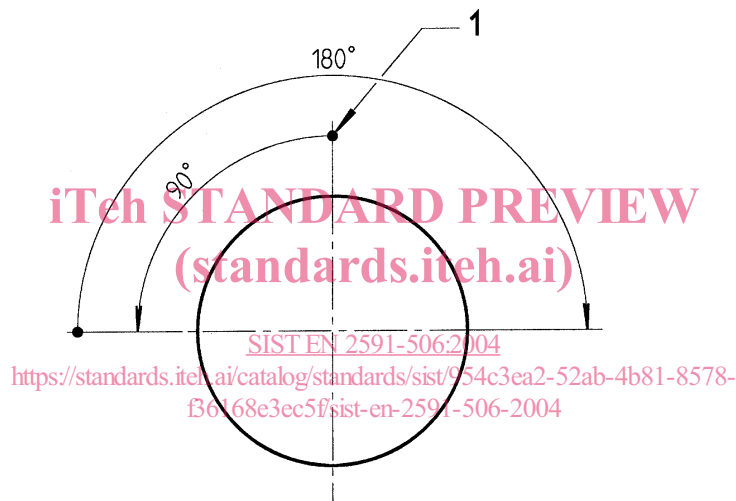
The specified extraction tool shall be inserted into a cavity containing the contact. The specified axial load shall be applied. This load being maintained, an alternating rotation shall be carried out as shown in figure 1; the tool shall then be extracted with the contact.

The contact shall be reintroduced. This operation shall be carried out four times on each of five cavities.

Phase 2 - Rotation of the insertion tool

The contact shall be withdrawn and then re-inserted into its cavity using the insertion tool, on which the specified axial load shall be applied.

With this load maintained, an alternating rotation shall be carried out as indicated in figure 1. The tool shall then be extracted and the contact shall be withdrawn. This operation shall be carried out four times on each of the five contact cavities.



Key

1 Begin

Figure 1 – Alternating rotation

If a tool is damaged during the test, it shall be replaced.

4.4 Final measurements (if applicable)

- EN 2591-101
- EN 2591-409