



**SLOVENSKI STANDARD**  
**SIST EN 2591-410:2001**  
**01-januar-2001**

**Aerospace series - Elements of electrical and optical connection - Test methods - Part 410: Insert retention in housing (axial)**

Aerospace series - Elements of electrical and optical connection - Test methods - Part 410: Insert retention in housing (axial)

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 410: Festsitzen des Kontakteinsatzes im Gehäuse

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 410: Rétention axiale de l'isolant dans le boîtier

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**Ta slovenski standard je istoveten z: EN 2591-410:1998**

**ICS:**

49.060 Štejni in optični elementi za povezavo v letalski opremi in sistemih  
 Aerospace electric equipment and systems

**SIST EN 2591-410:2001**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 2591-410

August 1998

ICS 49.060

Descriptors: aircraft industry, aircraft equipment, connecting equipment, test

English version

**Aerospace series - Elements of electrical and optical connection  
- Test methods - Part 410: Insert retention in housing (axial)**

Série aérospatiale - Organes de connexion électrique et  
optique - Méthodes d'essais - Partie 410: Rétenion axiale  
de l'isolant dans le boîtier

Luft- und Raumfahrt - Elektrische und optische  
Verbindungselemente - Prüfverfahren - Teil 410: Festsitzen  
des Kontakteinsatzes im Gehäuse

This European Standard was approved by CEN on 23 February 1998.

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 Central Secretariat 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 Central Secretariat 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

Central Secretariat: 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 February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

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.

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## 1 Scope

This standard specifies a method of assessing the insert retention in housings (shells) of elements of connection subjected to axial loads.

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.

EN 2591	Aerospace series - Elements of electrical and optical connection - Test methods - General
EN 2591-312	Aerospace series - Elements of electrical and optical connection - Test methods - Part 312: Air leakage <sup>1)</sup>

## 3 Preparation of specimens

3.1 Any accessories which are not essential to the retention of the insert in the housing (shell) shall be removed.

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

- initial measurement;
- contacts may be installed in specimens;
- load;
- value for EN 2591-312;
- value for measuring the displacement of the insert:
  - 1) during the application of the load,
  - 2) after removal of the load,
- final measurement and requirements (if applicable).

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

## 4 Method

### 4.1 Initial measurement

Measurement of the position of the insert in the housing (shell).

### 4.2 Procedure

The specimens shall be submitted to an axial load applied to their front face. It shall be increased at a nominal rate of 70 kPa/s until the specified value is reached, then maintained for a minimum of 5 s.

### 4.3 Final measurement and requirements (if applicable)

The displacement of the insert shall be measured under load; it shall not be greater than the specified value.

The specimens shall be subjected to the test in EN 2591-312.

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