



SLOVENSKI STANDARD SIST EN 2591-418:2004

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 418: Gauge insertion/extraction forces (female contacts)

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 418: Steck- und Ziehkräfte der Lehren (Buchsenkontakte)

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 418 : Forces d'insertion et d'extraction de calibres (contacts femelles)

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Ta slovenski standard je istoveten z: EN 2591-418:2001

ICS:

49.060 Štejni aparati in oprema za letalstvo in vesolje
Aerospace electric equipment and systems

SIST EN 2591-418:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2591-418

November 2001

ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 418: Gauge insertion/extraction forces
(female contacts)**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 418: Forces d'insertion
et d'extraction de calibres (contacts femelles)

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 418: Steck- und
Ziehkräfte der Lehren (Buchsenkontakte)

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 determining the insertion/extraction forces of female contacts used in elements of electrical and optical connection by means of gauges.

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⁾

3 Preparation of specimens

3.1 The contacts can be tested in the installed or removed position

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

- maximum insertion force and minimum extraction force;
- gauges; <https://standards.iteh.ai/catalog/standards/sist/ca90dafa-d1af-4603-ac5a-723aadafe371/sist-en-2591-418-2004>
- number of specimens;
- requirement.

4 Apparatus

- Device for holding specimens
- Force measuring device

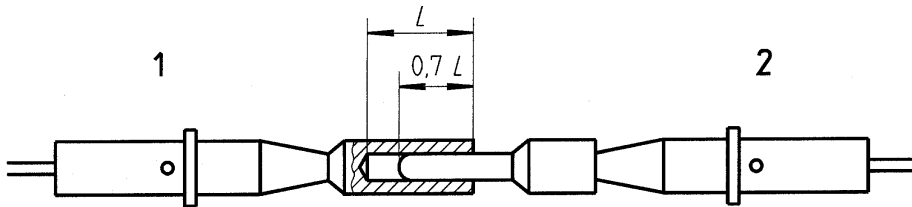
1) Published as AECMA Prestandard at the date of publication of this standard

EN 2591-418:2001 (E)

5 Method

5.1 Procedure

The gauge shall be introduced into each female contact to a minimum depth of $0,7 L$ of the female contact depth L (see figure 1).



Key

- 1 Specimen
- 2 Gauge

Figure 1 – Gauge insertion

Before measurement, the maximum size gauge shall be inserted and extracted three times.

The insertion forces shall be measured with the maximum size gauge.

The extraction forces shall be measured with the minimum size gauge.

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5.2 Requirement

The measured forces shall meet the specified values.

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