



**SLOVENSKI STANDARD
SIST EN 2591-419:2004**

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 419: Stability of male contacts in insert

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 419: Steifigkeit der Stiftkontakte im Kontakteinsatz

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 419 : Stabilité des contacts mâles dans l'isolant

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Ta slovenski standard je istoveten z: EN 2591-419:2001

ICS:

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

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en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2591-419

November 2001

ICS 49.060

English version

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- Test methods - Part 419: Stability of male contacts in insert**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 419: Stabilité des
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der Stiftkontakte im Kontakteinsatz

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 stability in insert of male contacts used in elements of electrical and optical connection.

It shall be used together with EN 2591-100.

2 Normative reference

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 specimens shall not be mated

Rear accessories shall not be mounted.

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

- gauge;
- force;
- permitted deflection.

4 Apparatus

Test fixture
Gauge

5 Method

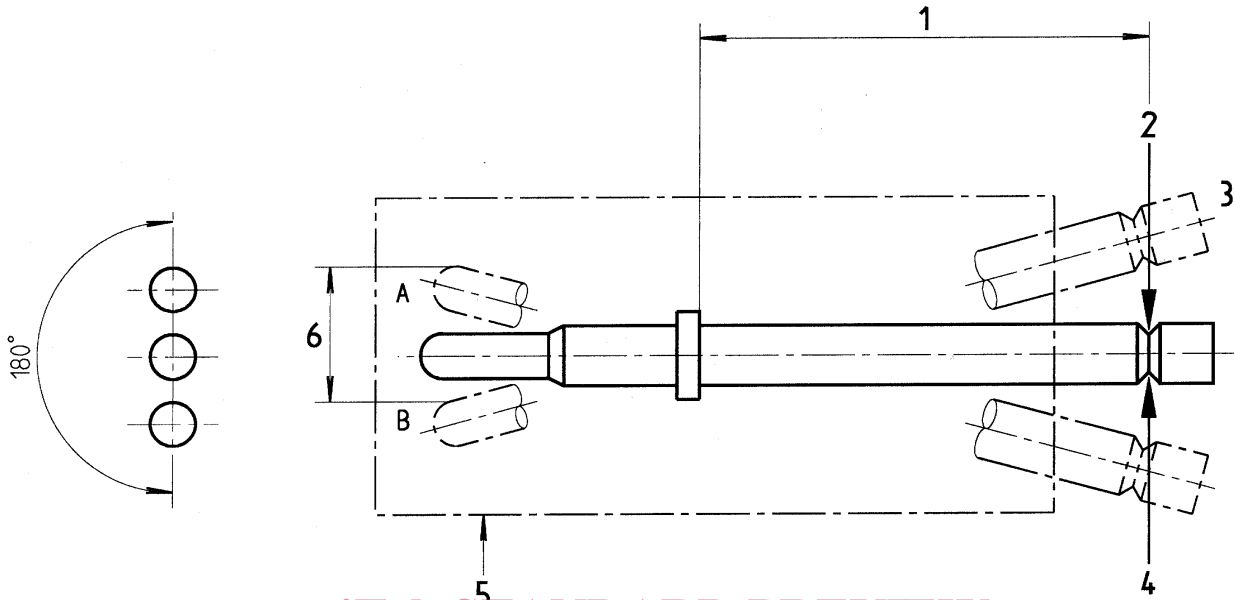
5.1 Number of cavities to be tested per contact size

10 % with a minimum of one.

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

5.2 Procedure

The specified gauge shall be introduced into the cavity (see figure 1).



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Key

- 1 Lever arm ($53,34 \pm 0,51$) mm (unless otherwise specified)
- 2 Point of application of force (position A)
- 3 Gauge
- 4 Point of application of force (position B)
- 5 Receptacle or plug
- 6 Total deflection

Figure 1 – Deflection measurement

The specified force shall be applied at a rate of 5 N/s and maintained for 10 s.

Position A shall be recorded during the application of the force. The test shall then be carried out in the opposite direction and position B shall be also recorded during the application of the force. The total deflection is the distance between points A and B.

5.3 Requirement

The deflection shall not exceed the specified value.