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National Standards Authority of Ireland

IRISH STANDARD

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ICS 49.060

AEROSPACE SERIES - ELEMENTS OF ELECTRICAL AND OPTICAL CONNECTION - TEST METHODS - PART 416: CONTACT BENDING

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EUROPEAN STANDARD
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English version

Aerospace series - Elements of electrical and optical connection - Test methods - Part 416: Contact bending strength

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 416: Résistance du contact à la flexion

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 416: Biegefestigkeit der Kontakte

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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of an identical text or by endorsement, at the latest by May 2002, and conflicting national standards shall be withdrawn at the latest by May 2002.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.

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1 Scope

This standard specifies a method of determining the bending strength of male contacts used in elements of electrical and optical connection.

It shall be used together with EN 2591-100.

NOTE This test applies only to male contacts of nominal diameter ≤ 1 mm.

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

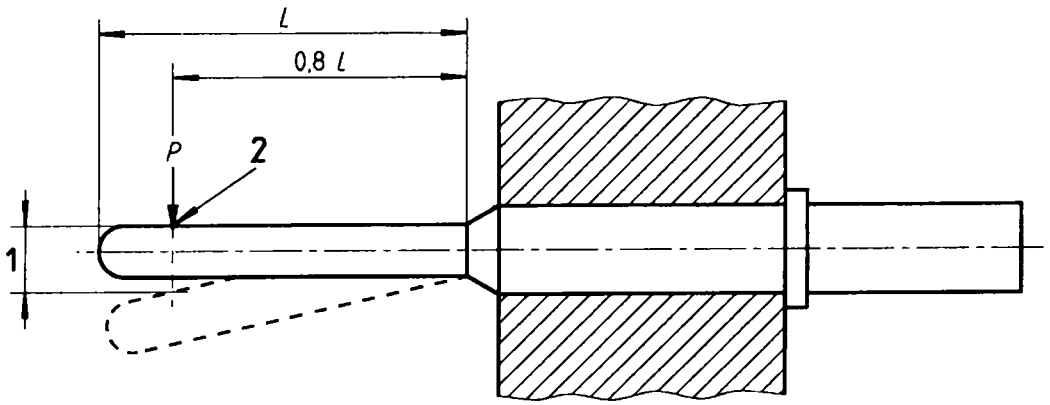
3.1 Specimens shall not be wired and shall not have been subjected to any deformation

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

- bending moment;
- requirement.

4 Apparatus

The specimens shall be held in a suitable fixture, see figure 1.



Key

1 Permanent set
2 Point of direction of application of force

Figure 1 – Example of test fixture

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

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5 Method

5.1 Number of contacts to be tested

10 of each size

5.2 Procedure

A load corresponding to the specified bending moment shall be applied to point *P* at a speed of 25 mm/min.

The load indicating in the product standard shall be maintained for 1 min and then released.

The contact permanent set shall be measured at 0,8 *L* (see figure 1).

5.3 Requirement

The permanent set of the contact shall not exceed 0,13 mm.

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