SLOVENSKI STANDARD
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Aerospace series - Elements of electrical and optical connection - Test methods - Part 422: Locking wire hole strength

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 422: Widerstand der Sicherungsdrahtlöcher

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 422: Résistance des trous pour fil de freinage

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This European Standard was approved by CEN on 8 February 2002.

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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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 2591-422:2002)) has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After enquiries 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of an identical text or by endorsement, at the latest by December 2002, and conflicting national standards shall be withdrawn at the latest by December 2002.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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom

1 Scope

This standard specifies a method of verifying that the locking wire holes in an element of connection are of sufficient strength to meet normal usage.

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 specimen shall be coupled to a connector or simulation thereof, which in turn shall be mounted on a rigid mounting plate.
Locking wire as specified in 5, or in the technical specification, shall be threaded through a locking wire hole and secured to permit the application of an axial load. When there are several holes the one which shows the most unfavourable mechanical strength conditions shall be tested.

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

- material and gauge of the locking wire, if other than as specified in 5.1;
- axial load if other than as specified in 5.1.

4 Apparatus

A suitable means of measuring an applied axial load.

5 Method

5.1 An axial load of (133 ± 0,5) N shall be applied perpendicular to the axis of the hole using a stainless steel wire 0,5 mm diameter (see figure 1). It shall be increased steadily until the specified value is reached; its rate of application shall not exceed 45 N/s. It shall be maintained for 5 min.

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

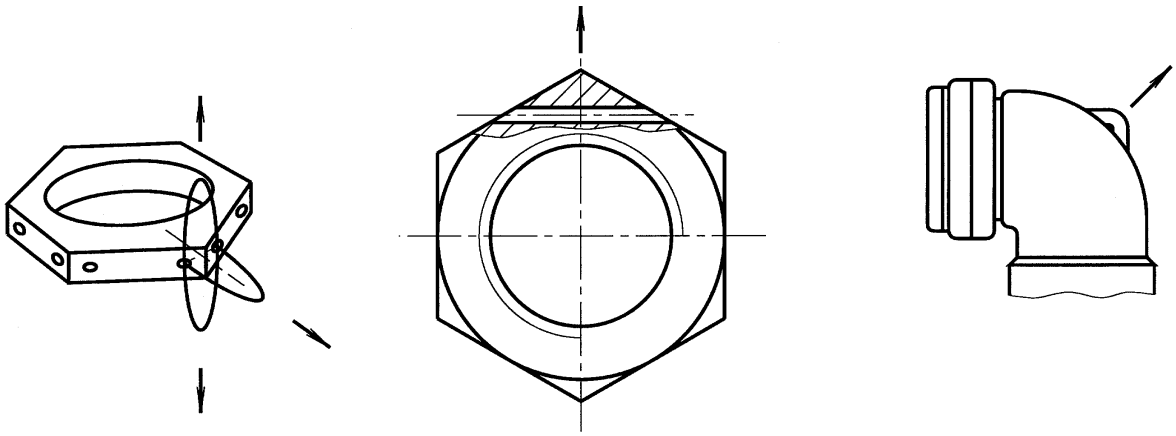

Figure 1

5.2 Requirement

The locking wire hole shall remain intact. The specimen shall not be damaged by the test wire i.e. no tearing open of the material from the bore of the hole to the outer surface of the component.

Small deformations of the knife edge are permissible.