SLOVENSKI STANDARD
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Aerospace series - Elements of electrical and optical connection - Test methods - Part 404: Transverse load

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 404: Querkraft

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 404: Charge transversale

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ICS:

49.060	Letalska in vesoljska elektriļna oprema in sistemi	Aerospace electric equipment and systems

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

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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 Central Secretariat has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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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of an identical text or by endorsement, at the latest by February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.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.

1 Scope

This standard specifies a method of assessing the ability of elements of connection to withstand transverse loads without mechanical or electrical damage.

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 2591-101	Aerospace series - Elements of electrical and optical connection - Test methods - Part 101: Visual examination
EN 2591-204	Aerospace series - Elements of electrical and optical connection - Test methods - Part 204: Discontinuity of contacts in the microsecond range
EN 2591-205	Aerospace series - Elements of electrical and optical connection - Test methods - Part 205: Housing (shell) electrical continuity
EN 2591-408	Aerospace series - Elements of electrical and optical connection - Test methods - Part 408: Mating and unmating forces 1)

3 Preparation of specimens

3.1 Specimens shall be mated and peripheral contacts shall be wired in series.

The receptacle shall be mounted on a rigid support (see figure 1).

The plug shall be fitted with a specified accessory or adaptor.

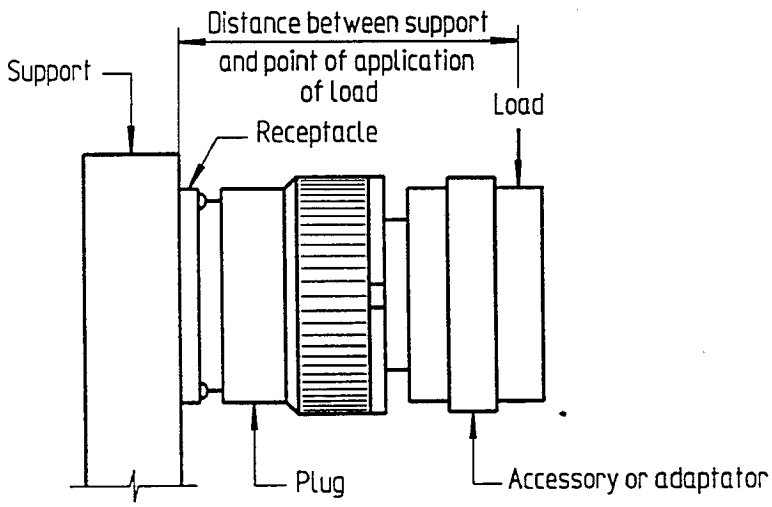

Figure 1: Example of test set-up

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

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

- type of plug accessory or adaptor;
- point of load application;
- load and distance between support and point of application;
- final measurements (if applicable).

4 Method

4.1 Procedure

The load shall be applied parallel to the mounting plate. It shall be increased at a rate not exceeding 45 N/s until the specified value is reached, then maintained for 1 min.

Measurements according to EN 2591-204 (Method B) shall be carried out throughout the test. If specified, measurements according to EN 2591-205 shall be carried out throughout the test.

No discontinuity greater than 1 µs shall be observed.

4.2 Final measurements (if applicable)

The specimens shall be subjected to the following test sequence:

- EN 2591-101;
- EN 2591-408.