



# SLOVENSKI STANDARD SIST EN 2591-709:2004

01-maj-2004

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## Aerospace series - Elements of electrical and optical connection - Test methods - Part 709: Electrical elements - Tensile strength of couplers

Aerospace series - Elements of electrical and optical connection - Test methods - Part  
709: Electrical elements - Tensile strength of couplers

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren -  
Teil 709: Elektrische Elemente - Zugfestigkeit von Kopplern

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais -  
Partie 709 : Organes électriques - Résistance à la traction des coupleurs

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Ta slovenski standard je istoveten z: EN 2591-709:2001

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### ICS:

49.060 Štejni inštrumenti in oprema za letalstvo Aerospace electric  
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 2591-709**

November 2001

ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection  
- Test methods - Part 709: Electrical elements - Tensile strength  
of couplers**

Série aérospatiale - Organes de connexion électrique et  
optique - Méthodes d'essais - Partie 709: Organes  
électriques - Résistance à la traction des coupleurs

Luft- und Raumfahrt - Elektrische und optische  
Verbindungselemente - Prüfverfahren - Teil 709:  
Elektrische Elemente - Zugfestigkeit von Kopplern

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 checking the tensile strength of couplers in conditions of mechanical and thermal stress.

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 <sup>1)</sup>
EN 2591-205	Aerospace series – Elements of electrical and optical connection – Test methods – Part 205: Housing (shell) electrical continuity

## 3 Preparation of specimens

**3.1** This test is carried out on a component complying with the product standard. Cable length shall be adjusted to suit the measuring equipment.

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

- minimum and maximum temperatures;
- force.

## 4 Method

Each bus or stub shall be tested individually. Specimens shall be attached by an appropriate means so that force may be applied along the longitudinal axis of the connection. The test method shall be such that the only stresses affecting the coupler are those generated by the axial force.

### 4.1 Procedure

Specimens shall be maintained at each test temperature for 15 min before applying the force.

The force shall be applied on the cable without squeezing the coupler case and increased continuously until the value specified in the technical specification is reached. The rate of application shall not exceed 45 N/s. This value shall be maintained for 2 min at the specified temperatures.

### 4.2 Requirements

- EN 2591-205 – Housing (shell) electrical continuity
- Force at rated temperatures as specified in product standard

<sup>1)</sup> Published as AECMA Prestandard at the date of publication of this standard