

**Aerospace series - Elements of
electrical and optical connection - Test
methods - Part 420: Mechanical
strength of rear accessories**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 2591-420:2006 sisaldab Euroopa standardi EN 2591-420:2006 ingliskeelset teksti.	This Estonian standard EVS-EN 2591-420:2006 consists of the English text of the European standard EN 2591-420:2006.
Käesolev dokument on jõustatud 30.08.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 30.08.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

Käsitlusala: This standard specifies a method of determining the mechanical strength of rear accessories used on elements of electrical and optical connection subjected to bending, tensile and torsional forces. It shall be used together with EN 2591-100.	Scope: This standard specifies a method of determining the mechanical strength of rear accessories used on elements of electrical and optical connection subjected to bending, tensile and torsional forces. It shall be used together with EN 2591-100.
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ICS 49.060

Võtmesõnad: air, bending stress, connecting threads, connected joints, contact, contact connection, electrical installations, fasteners, functional reliability, resistance, space transport, strength of materials, strength tests, tensile strain, testing, torsional stresses

English Version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 420: Mechanical strength of rear
accessories**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 420 : Tenue
mécanique des accessoires arrière

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 420:
Mechanische Festigkeit der rückseitigen Zubehörteile

This European Standard was approved by CEN on 27 April 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

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Foreword

This European Standard (EN 2591-420:2006) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

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 ASD, 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 January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 2591-420:2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies a method of determining the mechanical strength of rear accessories used on elements of electrical and optical connection subjected to bending, tensile and torsional forces.

It shall be used together with EN 2591-100.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General.*

EN 2591-101, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 101: Visual examination.*

3 Preparation of specimens

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

- mounting and locking of specimens;
- for phase A, bending moment;
- for phase B, tensile force;
- for phase C, torsional moment;
- for phase D, tightening torque;
- requirements.

4 Apparatus

- Equipment for applying and measuring the bending, tensile, torsional forces and torques.
- Fixture simulating the rear part of a connector.

5 Method

The mounted specimens shall be subjected to the following test sequence unless otherwise stated.

Dummy shells may be used.