



SLOVENSKI STANDARD
SIST EN 2591-405:2001
01-januar-2001

Aerospace series - Elements of electrical and optical connection - Test methods - Part 405: Axial load

Aerospace series - Elements of electrical and optical connection - Test methods - Part 405: Axial load

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 405: Axialkraft

iTeh STANDARD PREVIEW
(standards.iteh.ai)

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 405: Charge axiale

[SIST EN 2591-405:2001](#)

[https://standards.iteh.ai/catalog/standards/sist/040a10a5-7811-42b7-ad07-](https://standards.iteh.ai/catalog/standards/sist/040a10a5-7811-42b7-ad07-97de232bddef/sist-en-2591-405-2001)

[97de232bddef/sist-en-2591-405-2001](https://standards.iteh.ai/catalog/standards/sist/040a10a5-7811-42b7-ad07-97de232bddef/sist-en-2591-405-2001)

Ta slovenski standard je istoveten z: EN 2591-405:1998

ICS:

49.060 Štejni in optični elementi za povezavo električnih in optičnih sistemov v letalski tehniki
 Aerospace electric equipment and systems

SIST EN 2591-405:2001

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 2591-405:2001

<https://standards.iteh.ai/catalog/standards/sist/040a10a5-7811-42b7-ad07-97de232bddef/sist-en-2591-405-2001>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 2591-405

August 1998

ICS 49.060

Descriptors: aircraft industry, aircraft equipment, connecting equipment, test

English version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 405: Axial load**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 405: Charge axiale

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 405: Axialkraft

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

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN 2591-405:2001](https://standards.iteh.ai/catalog/standards/sist/040a10a5-7811-42b7-ad07-97de232bddef/sist-en-2591-405-2001)

<https://standards.iteh.ai/catalog/standards/sist/040a10a5-7811-42b7-ad07-97de232bddef/sist-en-2591-405-2001>



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

Central Secretariat: 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 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.

ALINEVO IS ANI LOU TER
 TPOE IN TOMARE OVILOE AS OVIETRENOI
 Opolovom ni ofacelchivom ni 09 vni
 ANALISOUJ

..... 1001
 DIVICALISAN INCHOM 09 TONVIT



1 Scope

This standard specifies a method of assessing the ability of elements of connection to withstand axial 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

3 Preparation of specimens

3.1 Specimens shall be mated and all contacts 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.

A suitable system shall be designed for application of the load to cylindrical or rectangular connectors. In no case shall the load be applied to the cable.

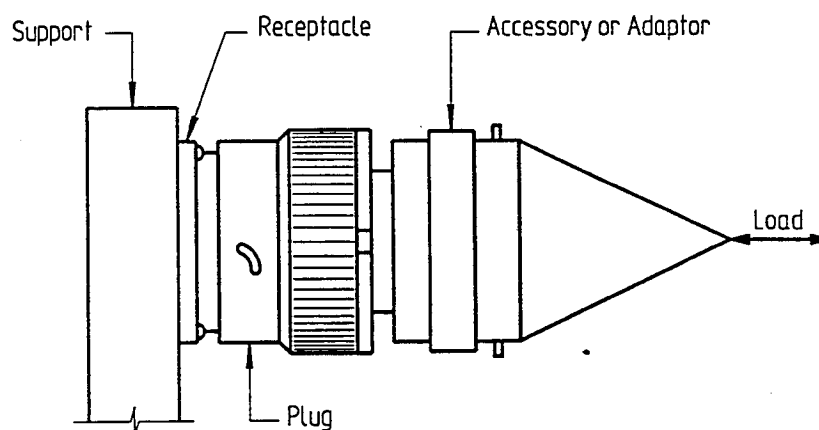


Figure 1: Example of test set-up

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

- type of plug accessory or adaptor;
- value of load;
- direction of load application (tensile and/or compression);
- final measurements (if applicable).

4 Method

4.1 Procedure

The load shall be applied perpendicularly 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 μ s 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.

ITeH STANDARD PREVIEW
(standards.iteh.ai)
[SIST EN 2591-405:2001](https://standards.iteh.ai/catalog/standards/sist/040a10a5-7811-42b7-ad07-97de232bddef/sist-en-2591-405-2001)
<https://standards.iteh.ai/catalog/standards/sist/040a10a5-7811-42b7-ad07-97de232bddef/sist-en-2591-405-2001>