



SLOVENSKI STANDARD
SIST EN 2591-407:2001
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Aerospace series - Elements of electrical and optical connection - Test methods - Part 407: Durability of contact retention system and seals

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 407: Beständigkeit der Kontakthalterungen und -dichtung

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 407: Endurance du système de rétention et d'étanchéité des contacts

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Ta slovenski standard je istoveten z: EN 2591-407:1999

ICS:

49.060 Štejni in optični elementi za zvezo električne in optične opreme in sistemov za letalstvo

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EUROPEAN STANDARD
 NORME EUROPÉENNE
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EN 2591-407

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ICS 49.060

English version

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 - Test methods - Part 407: Durability of contact retention system
 and seals**

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 optique - Méthodes d'essais - Partie 407: Endurance du
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Luft- und Raumfahrt - Elektrische und optische
 Verbindungselemente - Prüfverfahren - Teil 407:
 Beständigkeit der Kontakthalterungen und -dichtung

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

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

1 Scope

This standard specifies a method of assessing the durability of contact retention system and seals of elements of connection subjected to repeated contact insertion/extraction.

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 2591-312	Aerospace series - Elements of electrical and optical connection - Test methods - Part 312: Air leakage
EN 2591-313	Aerospace series - Elements of electrical and optical connection - Test methods - Part 313: Driving rain (artificial)
EN 2591-314	Aerospace series - Elements of electrical and optical connection - Test methods - Part 314: Immersion at low air pressure
EN 2591-409	Aerospace series - Elements of electrical and optical connection - Test methods - Part 409: Contact retention in insert
EN 2591-412	Aerospace series - Elements of electrical and optical connection - Test methods - Part 412: Contact insertion and extraction forces
EN 2591-D26	Aerospace series - Elements of electrical and optical connection - Test methods - Part D26: Contact retention system effectiveness (removable contact walkout) ¹⁾

3 Preparation of specimens

3.1 Specimens shall be prepared according to the technical specification.

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

- mounting method, type of cable and definition of specimen wiring (all accessories shall be removed);
- insertion/extraction tools;
- initial measurements (if applicable);
- final measurements (if applicable).

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

4 Method

4.1 Initial measurements (if applicable)

Specimens shall be submitted to the following test sequence:

- EN 2591-409;
- EN 2591-412;
- EN 2591-312 or EN 2591-313 or EN 2591-314.

4.2 Number of contacts to be tested for each size

See table 1.

Table 1

Number of contacts	Number to be tested %
1 to 5	100
6 to 60	50 (with a minimum of 6 specimens)
61 to 130	25 (with a minimum of 31 specimens)
≥ 131	10 (with a minimum of 34 specimens)

At least one contact shall be close to the insert periphery and one near the centre.

Selected contacts shall not have been removed previously.

4.3 Procedure

Each contact shall be inserted and extracted 10 times with the specified tools.

4.4 Final measurements (if applicable)

The specimens shall be subjected to the following test sequence:

- EN 2591-409;
- EN 2591-412;
- EN 2591-101;
- EN 2591-312 or EN 2591-313 or EN 2591-314;
- EN 2591-D26, this test shall be carried out using new contacts.