SLOVENSKI STANDARD
SIST EN 2591-417:2004

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 417: Tensile strength (crimped connection)

Aerospace series - Elements of electrical and optical connection - Test methods - Part 417: Tensile strength (crimped connection)

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 417: Zugfestigkeit (Crimpverbindung)

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 417 : Résistance a la traction (connexion sertie)

Ta slovenski standard je istoveten z: **EN 2591-417:2001**

ICS:

49.060	Letalska in vesoljska elektriļ na oprema in sistemi	Aerospace electric equipment and systems

SIST EN 2591-417:2004 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 2591-417

November 2001

ICS 49.060

English version

Aerospace series - Elements of electrical and optical connection - Test methods - Part 417: Tensile strength (crimped connection)

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 417: Résistance à la traction (connexion sertie)

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 417: Zugfestigkeit (Crimpverbindung)

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.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Ref. No. EN 2591-417:2001 E

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 determining the tensile strength of crimped connections used in elements of electrical and optical connection.

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 [1)]

3 Preparation of specimens

3.1 Specimens shall be prepared according to the technical specification with:

- 50 % of cables having conductors of the maximum section allowed by contact;
- 50 % of cables having conductors of the minimum section allowed by contact.

The length of the cable shall be appropriate for the tensile tester used.

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

- minimum and maximum sections of conductor for each contact size;
- minimum tensile load to be applied for each conductor size;
- crimping tools;
- number of specimens;
- requirements.

4 Apparatus

Tensile tester
Crimping tooling

5 Method

5.1 Procedure

The specimens shall be tested individually. The load shall be applied at a constant speed between 25 mm/min and 50 mm/min along the specimen axis and increased until the conductor is pulled out or broken.

Maximum values obtained shall be recorded.

5.2 Requirements

The rupture or extraction force of the conductor shall not be below the specified value.

No movement of the conductor shall be observed below the minimum specified value.

---

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