



**SLOVENSKI STANDARD
SIST EN 2591-706:2004**

01-maj-2004

Aerospace series - Elements of electrical and optical connection - Test methods - Part 706: Electrical elements - Transmission test

Aerospace series - Elements of electrical and optical connection - Test methods - Part 706: Electrical elements - Transmission test

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 706: Elektrische Elemente - Übertragungsprüfung

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 706 : Organes électriques - Essai de transmission

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Ta slovenski standard je istoveten z: EN 2591-706:2001

ICS:

49.060 Štejni in optični elementi za prenos električne energije in optične informacije v letalski in vesoljski opremi in sistemih
Aerospace electric equipment and systems

SIST EN 2591-706:2004

en

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EUROPEAN STANDARD

EN 2591-706

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2001

ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 706: Electrical elements - Transmission
test**

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Verbindungselemente - Prüfverfahren - Teil 706:
Elektrische Elemente - Übertragungsprüfung

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 transmission of an electrical multiplex data bus.

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.

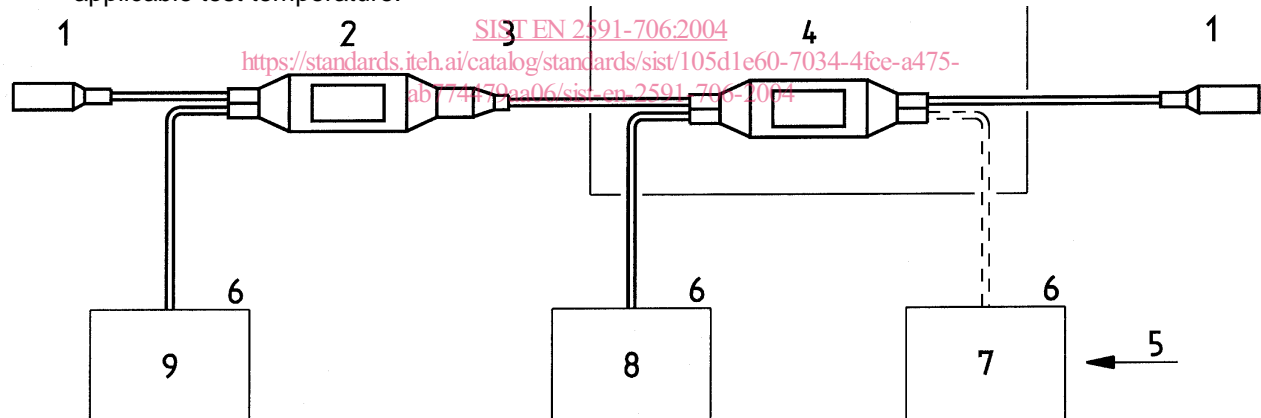
EN 2591-100 Aerospace series – Elements of electrical and optical connection – Test methods – Part 100: General ¹⁾

3 Preparation of specimens

The tested coupler is connected as on figure 1.

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

- number of words;
- duty cycle (inter word gap);
- amplitude of transmitted or received signal;
- validity criteria;
- applicable test temperature.



Key

- | | | | |
|---|----------------|---|---------------------------|
| 1 | Bus terminator | 5 | In case of double coupler |
| 2 | Coupler | 6 | Stub |
| 3 | Bus | 7 | Stub terminator |
| 4 | Tested coupler | 8 | Transmitter |
| | | 9 | Bus controller |

Figure 1

4 Method

The transmitter sends the message via the coupler under test and the bus controller checks the received words.

5 Requirement

Transmission shall comply with the validity criteria stated in the technical specification.

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