



# SLOVENSKI STANDARD SIST EN 2591-703:2004

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## Aerospace series - Elements of electrical and optical connection - Test methods - Part 703: Electrical elements - Common mode rejection of couplers

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 703: Elektrische Elemente - Gleichtaktunterdrückung von Kopplern

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 703 : Organes électriques - Réjection de mode commun des coupleurs

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**Ta slovenski standard je istoveten z: EN 2591-703:2001**

### ICS:

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

**SIST EN 2591-703:2004**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 2591-703**

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ICS 49.060

English version

**Aerospace series - Elements of electrical and optical connection  
- Test methods - Part 703: Electrical elements - Common mode  
rejection of couplers**

Série aérospatiale - Organes de connexion électrique et  
optique - Méthodes d'essais - Partie 703: Organes  
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Verbindungselemente - Prüfverfahren - Teil 703:  
Elektrische Elemente - Gleichtaktunterdrückung von  
Kopplern

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.

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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 measuring common mode rejection of couplers.

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.

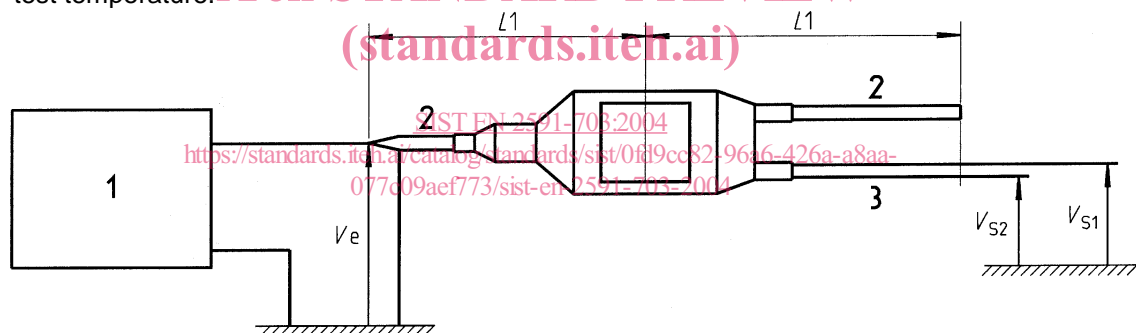
EN 2591-100 Aerospace series – Elements of electrical and optical connection – Test methods – Part 100: General <sup>1)</sup>

## 3 Preparation of specimens

The coupler is connected as on figure 1.

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

- value of  $T$ , see 4;
- stub and bus cable length  $L1$ ;
- test temperature.



### Key

- 1 Signal generator
- 2 Bus
- 3 Stub

Figure 1

## 4 Method

The test is carried out using a signal generator connected as on figure 1.

The test signal shall be sinusoidal, frequency 1 MHz, amplitude 0,3 V r.m.s.. Common mode rejection shall be calculated with the formula:

$$T = 20 \log \left| \frac{V_e}{V_{S2} - V_{S1}} \right|$$

## 5 Requirement

Common mode rejection shall comply with the value specified in the technical specification.

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