



SLOVENSKI STANDARD
SIST EN 2591-223:2008
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Aerospace series - Elements of electrical and optical connection - Test methods - Part 223: Measurement of characteristic impedance of a coaxial connector or contact

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 223: Messung der Impedanz eines Koaxial-Steckverbinders oder -Kontaktes

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Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 223: Mesure de l'impédance caractéristique d'un connecteur ou d'un contact coaxial

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Ta slovenski standard je istoveten z: EN 2591-223:2007

ICS:

49.060

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en

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ICS 49.060

English Version

**Aerospace series - Elements of electrical and optical connection
- Test methods - Part 223: Measurement of characteristic
impedance of a coaxial connector or contact**

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 223: Mesure de
l'impédance caractéristique d'un connecteur ou d'un
contact coaxial

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 223: Messung
der Impedanz eines Koaxial-Steckverbinders oder -
Kontaktes

This European Standard was approved by CEN on 27 April 2006.

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 CEN 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, 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

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Preparation of specimens	4
4 Apparatus	5
5 Requirement	5
6 Detail to be specified	5

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<https://standards.iteh.ai/catalog/standards/sist/3631588c-06f6-498b-ac51-bb1e80f6fd07/sist-en-2591-223-2008>

Foreword

This document (EN 2591-223:2007) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries 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 ASD, 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 June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies a test method of measuring the characteristic impedance of

- a couple of connectors,
- a couple of coaxial contacts.

It shall be use together with EN 2591-100.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591-100, *Aerospace series — Elements of electrical and optical connection — Test methods — Part 100: General.*

EN 3155-002, *Aerospace series — Electrical contacts used in elements of connection — Part 002: List and utilization of contacts.*

EN 4604-002, *Aerospace series — Cable, electrical, for signal transmission — Part 002: General.*

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3 Preparation of specimens

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SIST EN 2591-223:2008

3.1 Connectors

Each contact shall be wired with the shortest possible length of coaxial cable according to EN 4604-002, with the closest impedance to the product standard.

The free end of one coaxial cable shall be connected to a load resistor with same value than the cable impedance.

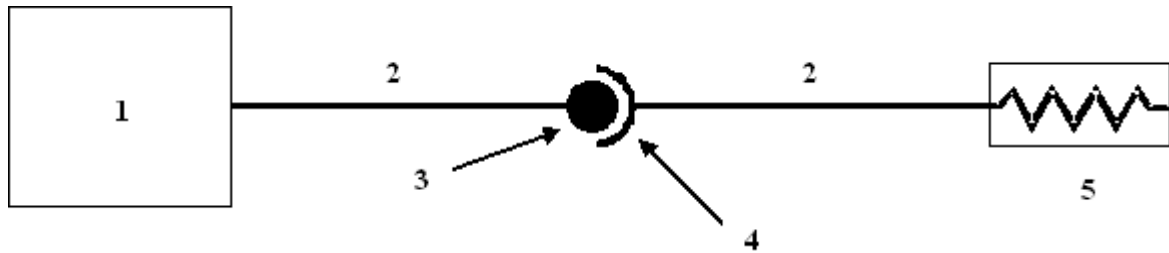
3.2 Contacts

Each contact shall be wired with the shortest possible length of coaxial cable according to EN 4604-002, with the closest impedance to the product standard.

Then the contact shall be fitted in a dedicated connector as per EN 3155-002.

The free end of one coaxial cable shall be connected to a load resistor with same value than the cable impedance.

See Figure 1.



Key

- 1 Impedance meter reflectometer
- 2 Coaxial cable
- 3 Coaxial male connector (or contact)
- 4 Coaxial female connector (or contact)
- 5 Load resistor

Figure 1

4 Apparatus

The measurement shall require the use of an impedance meter – reflection meter.

The test signal shall be sinusoidal, frequency range in accordance with product standard needs.

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5 Requirement

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The recorded impedance value of the device under test shall comply with specified value in the product standard.

6 Detail to be specified

Coaxial cable type.

Impedance meter manufacturer, type and serial number.

Frequency of measurement.