



SLOVENSKI STANDARD
SIST EN 2591-225:2008
01-april-2008

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XY.`BUj`jy`UbuYrcghj]gc_YZY_j YbW

Aerospace series - Elements of electrical and optical connection - Test methods - Part 225: RF high potential withstanding voltage

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 225: HF-Hochspannungsfestigkeit

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Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 225: Tenue en haute tension HF

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Ta slovenski standard je istoveten z: EN 2591-225:2007

ICS:

49.060

SIST EN 2591-225:2008

en

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ICS 49.060

English Version

Aerospace series - Elements of electrical and optical connection
- Test methods - Part 225: RF high potential withstanding
voltage

Série aérospatiale - Organes de connexion électrique et
optique - Méthodes d'essais - Partie 225: Tenue en haute
tension HF

Luft- und Raumfahrt - Elektrische und optische
Verbindungselemente - Prüfverfahren - Teil 225: HF-
Hochspannungsfestigkeit

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.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Preparation of specimens	4
4 Apparatus	4
5 Method	5
6 Results	5

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[SIST EN 2591-225:2008](https://standards.iteh.ai/catalog/standards/sist/b8144ce6-3f54-4929-96aa-4de1918062bd/sist-en-2591-225-2008)

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Foreword

This document (EN 2591-225:2007) 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 to test a mated pair of connectors under RF high potential withstanding voltage.

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

3 Preparation of specimens

The connectors shall be wired with an approximately 50 mm of the dedicated coaxial cable as per EN 4604-002.

This assembly shall then be inserted into the high impedance circuit as shown on Figure 1.

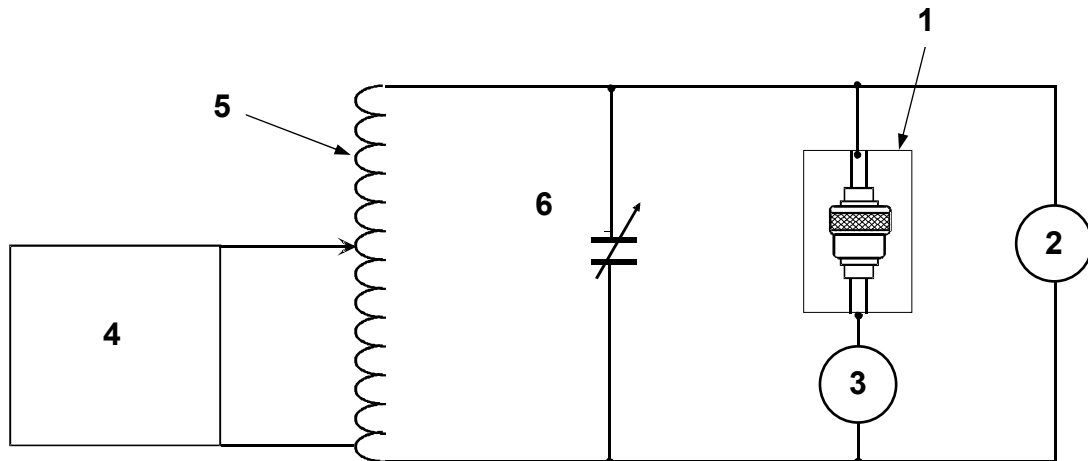
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4 Apparatus

An RF power source up to 11 GHz frequency.

An RF transformer with a variable output.

RF voltmeter and RF ammeter.



Key

- 1 Connectors under test
- 2 RF V
- 3 RF A
- 4 RF power source
- 5 Transformer
- 6 Variable capacity

Figure 1 — Circuit diagram
(standards.iteh.ai)

5 Method

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The sample shall be instantaneously subjected to the RF voltage and frequency specified in the product standard, between the centre contacts and the conductive housing of the connectors.

Duration of test shall be one minute (1 min).

The frequency source shall be stabilised and have a very good form factor of sine wave output.

6 Results

No breakdown shall occur and leakage current shall be less than the maximum specified in the product standard.