



**SLOVENSKI STANDARD**  
**SIST EN 2591-206:2001**  
**01-januar-2001**

**Aerospace series - Elements of electrical and optical connection - Test methods - Part 206: Measurement of insulation resistance**

Aerospace series - Elements of electrical and optical connection - Test methods - Part 206: Measurement of insulation resistance

Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 206: Messung des Isolationswiderstandes

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 206: Mesure de la résistance d'isolement

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**Ta slovenski standard je istoveten z: EN 2591-206:1996**

**ICS:**

49.060 Štejni in optični elementi za zvezo električne in optične opreme in sistemov

**SIST EN 2591-206:2001 en**

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EUROPEAN STANDARD

EN 2591-206

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 1996

ICS 49.060

Supersedes EN 2591-B6:1993

Descriptors: aircraft industry, aircraft equipment, connecting equipment, tests, measurements, insulation resistance

English version

**Aerospace series, Elements of electrical and  
optical connection - Test methods - Part 206:  
Measurements of insulation resistance**

Série aérospatiale - Organes de connexion  
électrique et optique - Méthodes d'essais -  
Partie 206: Mesure de la résistance d'isolement

Luft- und Raumfahrt - Elektrische und optische  
Verbindungselemente - Prüfverfahren - Teil 206:  
Messung des Isolationswiderstandes

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

**Foreword**


This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

The alphanumerical designation of the parts of EN 2591 has been abandoned for a numerical designation in line with the Internal Regulations of CEN/CENELEC. This European Standard is the integral reproduction of the European Standard EN 2591-B6 after application of this decision, without any other modification than the change in numbering.

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 August 1996, and conflicting national standards shall be withdrawn at the latest by August 1996.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom

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## 1 Scope

This standard specifies the methods for measuring the insulation resistance of mated or unmated elements of connection.

It shall be used together with EN 2591.

## 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 Aerospace series - Elements of electrical and optical connection - Test methods - General

## 3 Preparation of specimens

**3.1** Specimens shall be wired in conformity with the technical specification. Measurements shall be carried out on elements of connection which are mated or unmated in accordance with the technical specification. Unless otherwise specified in the test concerned, the specimens shall not be cleaned.

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

- measuring method (A, B or C) to be used;
- elements of connection mated or unmated;
- minimum value of the insulation resistance specified by the test concerned, e.g. environmental, contamination, temperature, moisture tests, etc.

## 4 Methods

The insulation resistance shall be measured at  $(500^{+20}_0)$  V d.c.

The insulation resistance shall be recorded when a stable reading is obtained. If a stable condition is not reached, the insulation resistance reading shall be recorded within  $(60^{+5}_0)$  s after application of test voltage.

### 4.1 Method A

The insulation resistance shall be measured in turn between each contact and all the others connected together and to the housing (shell) or the mounting plate.

#### 4.2 Method B

Alternate contacts shall be connected together to form two groups, the first group including all even numbered contacts, the other all odd numbered contacts, for instance.

The insulation resistance shall be measured in turn between :

- the first group of contacts and the second group connected to the housing (shell) or to the mounting plate;
- the second group of contacts and the first group connected to the housing (shell) or to the mounting plate.

In the case of contacts arranged in two or more rows, it may be necessary to form a second arrangement of two groups in order to measure the insulation resistance between all adjacent contacts.

#### 4.3 Method C

The insulation resistance shall be measured between two adjacent contacts or one contact and the housing (shell) having a minimum spacing.

#### 4.4 Requirement

The measured value shall not be lower than that specified.

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