



SLOVENSKI STANDARD
SIST EN 2591-203:2001
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Aerospace series - Elements of electrical and optical connection - Test methods - Part 203: Electrical continuity at microvolt level

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Luft- und Raumfahrt - Elektrische und optische Verbindungselemente - Prüfverfahren - Teil 203: Kontinuierliche Stromdurchgang im Mikrovoltbereich

Série aérospatiale - Organes de connexion électrique et optique - Méthodes d'essais - Partie 203: Continuité électrique au niveau des microvolts

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ICS:

49.060 Štejni in optični oprema za letalstvo in vesolje
 Aerospace electric equipment and systems

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EUROPEAN STANDARD

EN 2591-203

NORME EUROPÉENNE

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ICS 49.060

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Descriptors: aircraft industry, aircraft equipment, connecting equipment, tests, measurements, electrical resistance, contact resistance, tests duration

English version

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optical connection - Test methods - Part 203:
Electrical continuity at microvolt level**

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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

1 Scope

This standard specifies a method for measuring the electrical continuity of a pair of mated contacts and their terminations at microvolt level, i.e. when the current flowing across the contacts is very low with respect to nominal current rating.

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.

- IEC 50(302) International electrotechnical vocabulary - Chapter 302 : Electrical measuring instruments
- EN 2591 Aerospace series - Elements of electrical and optical connection - Test methods - General

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3 Preparation of specimens

3.1 The contacts concerned shall not have been subjected to any prior fatigue test or heating at rated current. Elements of connection shall be mated and fitted with their contacts wired in accordance with the technical specification. The electrical continuity shall be measured individually across each pair of contacts.

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

- input voltage U_E ;
- admissible value for voltage variation ($U_E - U_A$);
- type of cable;
- test duration.

4 Apparatus

Voltmeters shall be of the 0,5 class and have an internal resistance higher than or equal to 10 M Ω (see IEC 50(302)).

A schematic diagram of the test apparatus is shown in figure 1.

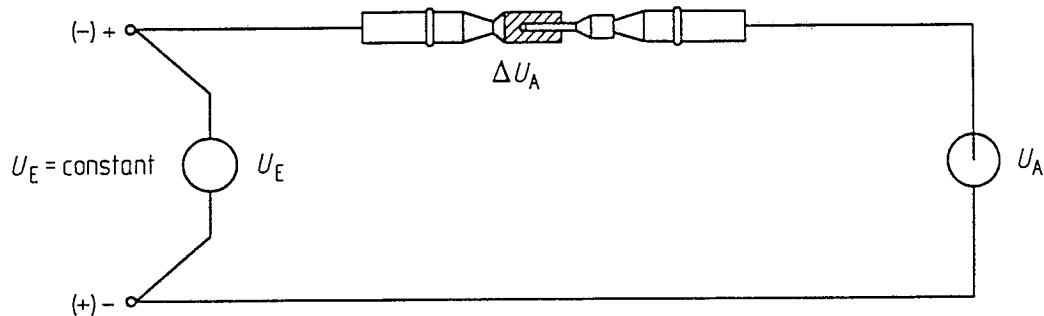


Figure 1

5 Method

5.1 Procedure

Measurements shall be carried out with d.c. current in both directions.

The input voltage U_E shall be adjusted to the value specified in the technical specification and maintained constant at $\pm 1\%$.

Voltage shall be recorded throughout the test duration specified by the technical specification.

Polarity shall be reversed half-way through the test.

5.2 Requirement

The variation recorded shall not exceed the specified value.