

SLOVENSKI STANDARD SIST EN 60512-22-1:2010

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Konektorji za elektronsko opremo - Preskusi in meritve - 22-1. del: Preskušanje kapacitivnosti - Preskus 22a: Kapacitivnost (IEC 60512-22-1:2010)

Connectors for electronic equipment - Tests and measurements - Part 22-1: Capacitance tests - Test 22a: Capacitance (IEC 60512-22-1:2010)

Steckverbinder für elektronische Einrichtungen - Mess- und Prüfverfahren - Teil 22-1: Prüfungen der Kapazität - Prüfung 22a: Kapazität (IEO 60512-22-1:2010)

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Connecteurs pour équipements électroniques - Essais et mesures - Partie 22-1: Essais de capacité - Essai 22a: Capacité (CEL 60512-22-1:2010)

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Ta slovenski standard je istoveten z: EN 60512-22-1-2010

ICS:

31.220.10 Vtiči in vtičnice, konektorji Plug-and-socket devices.

Connectors

SIST EN 60512-22-1:2010 en

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EN 60512-22-1

NORME FUROPÉENNE **EUROPÄISCHE NORM**

July 2010

ICS 31.220.01

English version

Connectors for electronic equipment -Tests and measurements -Part 22-1: Capacitance tests -**Test 22a: Capacitance** (IEC 60512-22-1:2010)

Connecteurs pour équipements électroniques -Essais et mesures -Partie 22-1: Essais de capacité -

Essai 22a: Capacité

(CEI 60512-22-1:2010) eh STANDARD P(IEC 60512-22-1:2010)

Steckverbinder für elektronische

Einrichtungen -

Mess- und Prüfverfahren -

Teil 22-1: Prüfungen der Kapazität -

Prüfung 22a: Kapazität

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CENELEC

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

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Foreword

The text of document 48B/2158/FDIS, future edition 1 of IEC 60512-22-1, prepared by SC 48B, Connectors, of IEC TC 48, Electromechanical components and mechanical structures for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60512-22-1 on 2010-07-01.

The structure of EN 60512 series is explained in EN 60512-1-100.

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

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement
- (dop) 2011-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2013-07-01

Endorsement notice

The text of the International Standard IEC 60512-22-1:2010 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

<u>SIST EN 60512-22-1:2010</u> https://standards.iteh.ai/catalog/standards/sist/1133da60-b0d8-4595-8dfd-4af55f3db487/sist-en-60512-22-1-2010



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NORME INTERNATIONALE

Connectors for electronic equipment Tests and measurements – Part 22-1: Capacitance tests – Test 22a: Capacitance

Connecteurs pour équipements électroniques — Essais et mesures — Partie 22-1: Essais de capacité : Essais 22a: Capacité de 4595-8dfd

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 22-1: Capacitance tests – Test 22a: Capacitance

FOREWORD

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International Standard IEC 60512-22-1 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This standard cancels and replaces Test 22a of IEC 60512-9, issued in 1992. The structure of IEC 60512 series is explained in IEC 60512-1-100.

The text of this standard is based on the following documents:

FDIS	Report on voting
48B/2158/FDIS	48B/2192/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

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This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 60512 series, under the general title *Connectors for electronic equipment – Tests and measurements*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- · reconfirmed,
- withdrawn,
- · replaced by a revised edition, or
- amended.

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CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 22-1: Capacitance tests – Test 22a: Capacitance

1 Scope and object

This part of IEC 60512, when required by the detail specification, is used for testing connectors within the scope of technical committee 48. It may also be used for similar devices when specified in a detail specification.

The object of this standard is to detail a standard test method to determine the capacitance between conductive elements of connectors.

2 Preparation of the specimen

The specimen shall be prepared and mounted according to the detail specification.

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3 Test method

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Any one of the following contact combinations may be measured:

- a) between one contact and the following parts, all connected to earth at a common point:
 - all other contacts, 4af55f3db487/sist-en-60512-22-1-2010
 - all metal parts,
 - the mounting plate;
- b) between any two adjacent contacts, the following parts all being connected to earth at a common point:
 - all other contacts.
 - all metal parts,
 - the mounting plate;
- c) any other measuring point or operating condition as specified by the detail specification.

The capacitance shall be measured at a frequency as specified by the detail specification, using a suitable test set, for example a capacitance bridge which will ensure an accuracy of ± 5 %.

The preferred measuring frequencies are:

1 kHz ± 200 Hz,

1 MHz \pm 200 kHz.

4 Requirements

The values of capacitance shall not exceed the values specified by the detail specification.