SLOVENSKI STANDARD

SIST EN 60512-13-5:2006

julij 2006

Konektorji za elektronsko opremo – Preskusi in meritve – 13-5. del: Mehanski preskusi – Preskus 13e: Metoda s polariziranjem in zatiči

Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method

ICS 31.220.10

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Connectors for electronic equipment - Tests and measurements Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method

(IEC 60512-13-5:2006)

Connecteurs pour équipements électroniques - Essais et mesures Partie 13-5: Essais de fonctionnement mécanique - Essai 13e: Méthode de polarisation et de codage (CEI 60512-13-5:2006)

Steckverbinder für elektronische Einrichtungen - Mess- und Prüfverfahren Teil 13-5: Prüfungen der mechanischen Bedienbarkeit - Prüfung 13e: Polarisation und Kodierung (IEC 60512-13-5:2006)

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

The text of document 48B/1583/FDIS, future edition 1 of IEC 60512-13-5, 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 60512-13-5 on 2006-03-01.

This standard is to be read in conjunction with EN 60512-1 and EN 60512-1-100 which explains the structure of the EN 60512 series.

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)	2006-12-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2009-03-01

This European Standard makes reference to International Standards. Where the International Standard referred to has been endorsed as a European Standard or a home-grown European Standard exists, this European Standard shall be applied instead. Pertinent information can be found on the CENELEC web site.

Endorsement notice

The text of the International Standard IEC 60512-13-5:2006 was approved by CENELEC as a European Standard without any modification.

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Part 13-5: Mechanical operation tests – Test 13e: Polarizing and keying method

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 13-5: Mechanical operation tests – Test 13e: Polarizing and keying method

FOREWORD

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International Standard IEC 60512-13-5 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 13e of IEC 60512-7, issued in 1993, and constitutes a technical revision. This standard is to be read in conjunction with IEC 60512-1 and IEC 60512-1-100 which explains the structure of the IEC 60512 series.

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

FDIS	Report on voting
48B/1583/FDIS	48B/1616/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.

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

IEC 60512-13 consists of the following parts, under the general title *Connectors for electronic equipment – Tests and measurements*:

Part 13-1: Mechanical operation tests – Test 13a: Engaging and separating forces

Part 13-2: Mechanical operation tests – Test 13b: Insertion and withdrawal forces

Part 13-5: Mechanical operation tests – Test 13e: Polarizing and keying method

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 13-5: Mechanical operation tests – Test 13e: Polarizing and keying method

1 Scope and object

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

The object of this test procedure is to detail a standard test method to assess the capability of polarizing and or keying of connectors to allow intended mating and prevent unintended mating.

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.

IEC 60512-1-1, *Connectors for electronic equipment – Tests and measurements – Part 1-1: General Examination – Test 1a: Visual examination*

IEC 61984, *Connectors – Safety requirements and tests*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
polarization
method or design feature, which prevents connectors, which are intended to mate, from mating in an unintended attitude, angular rotation or position, whilst allowing mating in the intended manner

3.2
keying
method or design feature, which prevents connectors, which are not intended to mate from mating, in any attitude, angular rotation or position

4 Preparation

4.1 Preparation of specimen

The specimen shall consist of a mating pair of connectors with their terminations, as given in the detail specification. If specified in the detail specification, a gauge, tool or dedicated item may be used as a substitute for some part of the connector system.