



SLOVENSKI STANDARD SIST EN 60512-24-1:2013

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Konektorji za elektronsko opremo - Preskusi in meritve - 24-1. del: Preskušanje elektromagnetnega motenja - Preskus 24a: Preostali magnetizem

Connectors for electronic equipment - Tests and measurements - Part 24-1: Magnetic interference tests - Test 24a: Residual magnetism

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Ta slovenski standard je istoveten z: **EN 60512-24-1:2012**
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ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors

SIST EN 60512-24-1:2013

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60512-24-1

November 2012

ICS 31.220.01

English version

**Connectors for electronic equipment -
Tests and measurements -
Part 24-1: Magnetic interference tests -
Test 24a: Residual magnetism
(IEC 60512-24-1:2010)**

Connecteurs pour équipements
électroniques - Essais et mesures -
Partie 24-1: Essais de perturbations
magnétiques - Essai 24a: Magnétisme
résiduel
(CEI 60512-24-1:2010)

Steckverbinder für elektronische
Einrichtungen - Mess- und Prüfverfahren -
Teil 24-1: Prüfungen im magnetischen
Störfeld - Prüfung 24a: Restmagnetismus
(IEC 60512-24-1:2010)

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SIST EN 60512-24-1:2013

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 48B/2027/CDV, future edition 1 of IEC 60512-24-1, 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 approved by CENELEC as EN 60512-24-1:2012.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-05-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-04-28

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IEC 60512-24-1

Edition 1.0 2010-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Connectors for electronic equipment – Tests and measurements –
Part 24-1: Magnetic interference tests – Test 24a: Residual magnetism**

**Connecteurs pour équipements électroniques – Essais et mesures –
Partie 24-1: Essais de perturbations magnétiques – Essai 24a: Magnétisme
résiduel**

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**CONNECTORS FOR ELECTRONIC EQUIPMENT –
TESTS AND MEASUREMENTS –**
**Part 24-1: Magnetic interference tests –
Test 24a: Residual magnetism**

FOREWORD

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International Standard IEC 60512-24-1 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 24a 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:

CDV	Report on voting
48B/2027/CDV	48B/2117/RVC

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 3.

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 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.

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CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 24-1: Magnetic interference tests – Test 24a: Residual magnetism

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 method to measure the residual magnetism of a connector after exposure to a specified magnetic field.

2 Preparation of the specimen

The connector shall be prepared and mounted in a fixture as required by the detail specification.

3 Test method

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A magnetometer with a suitable probe shall be placed horizontally on a non-magnetic support with the probe positioned as far away from the measuring instrument as allowed by the connecting cord.

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The measuring instrument shall be set to the appropriate scale and the probe oriented so as to read "0".

The specimen shall be exposed to a magnetic field of approximately 0,5 T (5 000 G) three times.

NOTE The specimen should not touch the polar parts of the magnet.

Immediately after magnetization, the specimen shall be placed at a distance not exceeding 3 mm from the probe, without touching the probe. The specimen shall be oriented so as to obtain a maximum reading on the measuring instrument.

4 Requirements

The value measured shall not exceed the maximum value specified by the detail specification.

5 Details to be specified

When this test is required by the detail specification, the following details shall be specified:

- a) accessories to be fitted on the specimen;
 - b) maximum value of the residual magnetism;
 - c) any deviation from the standard test method.
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