



SLOVENSKI STANDARD

SIST EN 60512-1-100:2012

01-julij-2012

Konektorji za elektronsko opremo - Preskusi in meritve - 1-100. del: Splošno - Uporabne publikacije

Connectors for electronic equipment - Tests and measurements - Part 1-100 Ed 3.0: General - applicable publications

Steckverbinder für elektronische Einrichtungen - Mess- und Prüfverfahren - Teil 1-100: Allgemeines - Zutreffende Publikationen

Connecteurs pour équipements électroniques - Essais et mesures - Partie 1-100 Ed.3: Généralités - Publications applicables

<https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-3f64c2d2c183/sist-en-60512-1-100-2012>

Ta slovenski standard je istoveten z: **EN 60512-1-100:2012**

ICS:

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

SIST EN 60512-1-100:2012

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60512-1-100:2012](#)

<https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-3f64c2d2c183/sist-en-60512-1-100-2012>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60512-1-100

May 2012

ICS 31.220.10

Supersedes EN 60512-1-100:2006

English version

**Connectors for electronic equipment -
Tests and measurements -
Part 1-100: General -
Applicable publications
(IEC 60512-1-100:2012)**

Connecteurs pour équipements
électroniques -
Essais et mesures -
Partie 1-100: Généralités -
Publications applicables
(CEI 60512-1-100:2012)

Steckverbinder für elektronische
Einrichtungen -
Mess- und Prüfverfahren -
Teil 1-100: Allgemeines -
Zutreffende Publikationen
(IEC 60512-1-100:2012)

**ITEH STANDARD PREVIEW
(standards.iteh.ai)**

[SIST EN 60512-1-100:2012](https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-37495c3d-65f6-44de-8b74)

[https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-](https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-37495c3d-65f6-44de-8b74)

This European Standard was approved by CENELEC on 2012-03-28. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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/2270/FDIS, future edition 3 of IEC 60512-1-100, 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 60512-1-100:2012.

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) 2012-12-28
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-03-28

This document supersedes EN 60512-1-100:2006.

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

iTeh STANDARD PREVIEW Endorsement notice (standards.iteh.ai)

The text of the International Standard IEC 60512-1-100:2012 was approved by CENELEC as a European Standard without any modification.

[SIST EN 60512-1-100:2012](https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-3f64c2d2c183/sist-en-60512-1-100-2012)

<https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-3f64c2d2c183/sist-en-60512-1-100-2012>



IEC 60512-1-100

Edition 3.0 2012-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Connectors for electronic equipment – Tests and measurements –
Part 1-100: General – Applicable publications**

**Connecteurs pour équipements électroniques – Essais et mesures –
Partie 1-100: Généralités – Publications applicables**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

K

ICS 31.220.10

ISBN 978-2-88912-891-4

**Warning! Make sure that you obtained this publication from an authorized distributor.
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –
TESTS AND MEASUREMENTS –****Part 1-100: General –
Applicable publications**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60512-1-100 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This third edition cancels and replaces the second edition published in 2006. This edition constitutes a technical revision.

This new edition reflects the status of publications in the IEC 60512 series as of September 1st 2011.

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

FDIS	Report on voting
48B/2270/FDIS	48B/2281/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.

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

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

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.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 60512-1-100:2012](https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-3f64c2d2c183/sist-en-60512-1-100-2012)

<https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-3f64c2d2c183/sist-en-60512-1-100-2012>

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 1-100: General – Applicable publications

1 Scope and object

This part of IEC 60512 provides a listing of the 60512 series of standards for specific tests that are created for connectors. Further it gives cross-references with the former (60)512 standards, where different test numbers were used. The connector tests as such are mainly identical with the previously published standards; minor changes may be introduced due to technical developments (e.g. other soldering temperatures in soldering tests, resulting from the introduction of lead-free soldering). The former issues were in booklets, with several related tests in one document, while the present issues are leaflets, each featuring one single test.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 60512-1-100:2012](https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-3f64c2d2c183/sist-en-60512-1-100-2012)

<https://standards.iteh.ai/catalog/standards/sist/37495c3d-65f6-44de-8b74-3f64c2d2c183/sist-en-60512-1-100-2012>

Test No.	Test name	Applicable part of IEC 60512	Former IEC (60)512 part, test number
–	General	-1	512-1
	Applicable publications	-1-100	none
	<i>Part 1: General examination</i>		
1a	Visual examination	-1-1	-2 test 1a
1b	Examination of dimension and mass	-1-2	-2 test 1b
1c	Electrical engagement length	-1-3	-2 test 1c
1d	(With corrigendum) Contact protection effectiveness (scoop-proof)	-1-4	none
	<i>Part 2: Electrical continuity and contact resistance tests</i>		
2a	Contact resistance – Millivolt level method	-2-1	-2 test 2a
2b	Contact resistance – Specified test current method	-2-2	-2 test 2b
2c	Contact resistance variation	-2-3	-2 test 2c
2d	(Vacant)		
2e	Contact disturbance	-2-5	-2 test 2e
2f	Housing (shell) electrical continuity	-2-6	-2 test 2f
2g	(Vacant)		
	<i>Part 3: Insulation tests</i>		
3a	Insulation resistance	-3-1	-2 test 3a
	<i>Part 4: Voltage stress tests</i>		
4a	Voltage proof	-4-1	-2 test 4a
4b	Partial discharge	-4-2	-2 test 4b
4c	Voltage proof of pre-insulated crimp barrels	-4-3	-2 test 4c