
**Konektorji za elektronsko opremo – Preskusi in meritve – 1-100. del: Splošno
– Uporabne publikacije (IEC 60512-1-100:2006)**

Connectors for electronic equipment – Tests and measurements – Part 1-100:
General – Applicable publications (IEC 60512-1-100:2006)

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English version

**Connectors for electronic equipment -
Tests and measurements
Part 1-100: General -
Applicable publications
(IEC 60512-1-100:2006)**

Connecteurs pour équipements
électroniques -
Essais et mesures
Partie 1-100: Généralités -
Publications applicables
(CEI 60512-1-100:2006)

Steckverbinder für elektronische
Einrichtungen -
Mess- und Prüfverfahren
Teil 1-100: Allgemeines -
Zutreffende Publikationen
(IEC 60512-1-100:2006)

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SIST EN 60512-1-100:2006

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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

Foreword

The text of document 48B/1603/FDIS, future edition 2 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 was approved by CENELEC as EN 60512-1-100 on 2006-04-01.

This European Standard supersedes EN 60512-1-100:2001.

This European Standard reflects the status of publications in the EN 60512 series as of 2006-03.

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) 2007-01-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-04-01

Endorsement notice

The text of the International Standard IEC 60512-1-100:2006 was approved by CENELEC as a European Standard without any modification.

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NORME
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CEI
IEC

60512-1-100

Deuxième édition
Second edition
2006-03

**Connecteurs pour équipements électroniques –
Essais et mesures –**

**Partie 1-100:
Généralités –
Publications applicables**

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**Connectors for electronic equipment –
Tests and measurements –**

**Part 1-100:
General –
Applicable publications**

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

FOREWORD

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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 second edition cancels and replaces the first edition published in 2001. This edition constitutes a technical revision.

This new edition reflects the status of publications in the IEC 60512 series as of 2006-03.

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

FDIS	Report on voting
48B/1603/FDIS	48B/1656/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 60512-1 consists of the following parts under the general title: *Connectors for electronic equipment – Tests and measurements*:

- Part 1: General
- Part 1-1: General examination – Test 1a: Visual examination
- Part 1-2: General examination – Test 1b: Examination of dimension and mass
- Part 1-3: General examination – Test 1c: Electrical engagement length
- Part 1-4: General – Test 1d: Contact protection effectiveness (scoop-proof)
- Part 1-100: General – Applicable publications

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 [SIST EN 60512-1-100:2006](https://standards.iteh.ai/catalog/standards/sist/11274e7b-b140-4d93-80e9-d993bfbde14f/sist-en-60512-1-100-2006)
- amended. <https://standards.iteh.ai/catalog/standards/sist/11274e7b-b140-4d93-80e9-d993bfbde14f/sist-en-60512-1-100-2006>

Test No.	Test name	Applicable part of IEC 60512	Former IEC (60)512 part, test number to be deleted
–	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
	NOTE The previous test 1c ("Functional operation (switches)") has been withdrawn.		
1d	Contact protection effectiveness (scoop-proof) (including corrigendum)	-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
	<i>Part 5: Current-carrying capacity tests</i>		
5a	Temperature rise	-5-1	-3 test 5a
5b	Current-temperature derating	-5-2	-3 test 5b

Test No.	Test name	Applicable part of IEC 60512	Former IEC (60)512 part, test number to be deleted
<i>Part 6: Dynamic stress tests</i>			
6a	Acceleration, steady-state	-6-1	-4 test 6a
6b	Bump	-6-2	-4 test 6b
6c	Shock	-6-3	-4 test 6c
6d	Vibration (sinusoidal)	-6-4	-4 test 6d
6e	Random vibration	-6-5	None
<i>Part 7: Impact tests (free components)</i>			
7a	Free fall (repeated)	-5	-5 test 7a
7b	Mechanical strength impact	-5	-5 test 7b
<i>Part 8: Static load tests (fixed components)</i>			
8a	Static load, transverse	-5	-5 test 8a
8b	Static load, axial	-5	-5 test 8b
8c	Robustness of actuating lever	-5	-5 test 8c
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<i>Part 9: Endurance tests</i>			
9a	Mechanical operation	-5	-5 test 9a
9b	Electrical load and temperature	-5	-5 test 9b
9c	Mechanical operation with electrical load	-9-3	-5 test 9c
9d	Durability of contact retention system and seals	-5	-5 test 9d
9e	Current loading, cyclic	-5	-5 test 9e
<i>Part 10: Overload tests</i>			
10a	(Withdrawn)		
10b	(Withdrawn)		
10c	(Vacant)		
10d	Electrical overload (connectors)	-10-4	-5 test 10d