# Connectors for electronic equipment - Tests and measurements - Part 8-1: Static load tests (fixed connectors) - Test 8a: Static load, transverse



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## NATIONAL FOREWORD

| | |
|---|---|
| Käesolev Eesti standard EVS-EN 60512-8-1:2010 sisaldab Euroopa standardi EN 60512-8-1:2010 ingliskeelset teksti. | This Estonian standard EVS-EN 60512-8-1:2010 consists of the English text of the European standard EN 60512-8-1:2010. |
| Standard on kinnitatud Eesti Standardikeskuse 31.10.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas. | This standard is ratified with the order of Estonian Centre for Standardisation dated 31.10.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation. |
| Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 17.09.2010. | Date of Availability of the European standard text 17.09.2010. |
| Standard on kättesaadav Eesti standardiorganisatsioonist. | The standard is available from Estonian standardisation organisation. |



**ICS** 31.220.01

EUROPEAN STANDARD

NORME EUROPÉENNE

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# EN 60512-8-1

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English version

# Connectors for electronic equipment - Tests and measurements - Part 8-1: Static load tests (fixed connectors) - Test 8a: Static load, transverse

(IEC 60512-8-1:2010)

Connecteurs pour équipements électroniques - Essais et mesures - Partie 8-1: Essais sous charge statique (embases) - Essai 8a: Charge statique transversale (CEI 60512-8-1:2010)

Steckverbinder für elektronische Einrichtungen - Mess- und Prüfverfahren - Teil 8-1: Prüfungen mit statischer Last (feste Steckverbinder) - Prüfung 8a: Statische Querlast (IEC 60512-8-1:2010)



This European Standard was approved by CENELEC on 2010-09-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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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/2154/FDIS, future edition 1 of IEC 60512-8-1, 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 60512-8-1 on 2010-09-01.

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) | 2011-06-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2013-09-01 |

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60512-8-1:2010 was approved by CENELEC as a European Standard without any modification.

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# Annex ZA
(normative)

## Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| Publication | Year | Title | EN/HD | Year |
|---|---|---|---|---|
| IEC 60512-1-1 | - | Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination - Test 1a: Visual examination | EN 60512-1-1 | - |

# CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

## Part 8-1: Static load tests (fixed connectors) – Test 8a: Static load, transverse



## 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 assess the suitability of a fixed connector for use in applications where it may be subject to transverse stresses.

## 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*

## 3 Preparation of the specimen

The specimen shall not be wired but shall be fitted with such accessories as may be required by the detail specification.

Unless otherwise specified, the specimen shall be mounted in the normal manner, using the normal panel or chassis cut-out as laid down in the detail specification.

NOTE The plate should be strong enough to sustain the applied forces. The length and width of the plate should be such that the contour of the specimen is exceeded.

## 4 Test method

A specified force shall be applied to the specimen at the point and in the direction(s) as specified in the detail specification. This force shall be steadily increased up to the specified value and, unless otherwise specified in the detail specification, maintained for 1 min. Unless otherwise specified in the detail specification, the force shall be parallel to the mounting plate.

## 5 Final measurements

a) Visual examination (IEC 60512-1-1, test 1a).

b) Applicable operational characteristics.

NOTE if applicable, the detail specification may require a sealing test from the IEC60512-14 series or an ingress protection test according IEC 60529.