

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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

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



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –  
TESTS AND MEASUREMENTS –****Part 8-1: Static load tests (fixed connectors) –  
Test 8a: Static load, transverse**

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International Standard IEC 60512-8-1 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 8a of IEC 60512-5, 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:

FDIS	Report on voting
48B/2154/FDIS	48B/2188/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.

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 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

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- replaced by a revised edition, or
- amended.

## 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.