

**Connectors for electronic equipment - Tests and
measurements - Part 7-2: Impact tests (free connectors)
- Test 7b: Mechanical strength impact**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

| | |
|---|--|
| See Eesti standard EVS-EN 60512-7-2:2012 sisaldab Euroopa standardi EN 60512-7-2:2012 ingliskeelset teksti. | This Estonian standard EVS-EN 60512-7-2:2012 consists of the English text of the European standard EN 60512-7-2:2012. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 03.02.2012. | Date of Availability of the European standard is 03.02.2012. |
| Standard on kättesaadav Eesti Standardikeskusest. | The standard is available from the Estonian Centre for Standardisation. |

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**Connectors for electronic equipment -
Tests and measurements -
Part 7-2: Impact tests (free connectors) -
Test 7b: Mechanical strength impact
(IEC 60512-7-2:2011)**

Connecteurs pour équipements
électroniques -
Essais et mesures -
Partie 7-2: Essais d'impact (fiches) -
Essai 7b: Résistance mécanique aux
chocs
(CEI 60512-7-2:2011)

Steckverbinder für elektronische
Einrichtungen -
Mess- und Prüfverfahren -
Teil 7-2: Aufprallprüfungen (freie
Steckverbinder) -
Prüfung 7b: Kabelgebundene Fallprüfung
(IEC 60512-7-2:2011)

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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/2258/FDIS, future edition 1 of IEC 60512-7-2, 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 60512-7-2:2012.

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) 2012-09-22
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2014-12-22

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Endorsement notice

The text of the International Standard IEC 60512-7-2:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

- | | | |
|---------------------|------|--|
| IEC 60068-2-31:2008 | NOTE | Harmonized as EN 60068-2-31:2008 (not modified). |
| IEC 60512-1 | NOTE | Harmonized as EN 60512-1. |
| IEC 60512-1-100 | NOTE | Harmonized as EN 60512-1-100. |

Annex ZA
(normative)

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

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

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

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CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 7-2: Impact tests (free connectors) – Test 7b: Mechanical strength impact

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 ability of a free connector on the end of a cable or wire bundle to withstand impacts it could receive when dropped onto a hard surface.

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

3.1 Preparation of the specimen

The specimen shall consist of a free connector or a similar component with its accessories fitted in the normal manner and wired as used in the normal application.

The specimen shall be prepared in accordance with the detail specification.

Unless otherwise specified, the specimen shall be pre-conditioned at a temperature between 15 °C and 35 °C and a RH between 25 % and 75 % RH during 48 h.

If the component is normally provided for use with different types of cables, the thinnest and/or most flexible type shall be used. The length of the cable or wire bundle shall allow the rear of the specimen to be $(2\,250 \pm 10)$ mm from the point of attachment.

3.2 Equipment

A steel plate 300 mm × 500 mm of 25 mm thickness shall be positioned so that the component under test will fall onto it.

3.3 Mounting

The specimen shall be attached in an appropriate manner at a distance of $(2\,250 \pm 10)$ mm from the rear of the component so that the specimen may swing freely from a horizontal to a vertical position as shown in Figure 1.