

**Connectors for electronic equipment - Tests and measurements - Part 7-1: Impact tests (free connectors)
- Test 7a: Free fall (repeated)**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 60512-7-1:2010 sisaldab Euroopa standardi EN 60512-7-1:2010 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 31.08.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 21.05.2010.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 60512-7-1:2010 consists of the English text of the European standard EN 60512-7-1:2010.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 31.08.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 21.05.2010.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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**Connectors for electronic equipment -
Tests and measurements -
Part 7-1: Impact tests (free connectors) -
Test 7a: Free fall (repeated)
(IEC 60512-7-1:2010)**

Connecteurs pour équipements
électroniques -
Essais et mesures -
Partie 7-1: Essais d'impact (fiches) -
Essai 7a: Chute libre (essai répété)
(CEI 60512-7-1:2010)

Steckverbinder für elektronische
Einrichtungen -
Mess- und Prüfverfahren -
Teil 7-1: Aufprallprüfungen
(freie Steckverbinder) -
Prüfung 7a: Freier Fall (Falltrommel)
(IEC 60512-7-1:2010)

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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.

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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/2016/CDV, future edition 1 of IEC 60512-7-1, 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 60512-7-1 on 2010-05-01.

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) 2011-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2013-05-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60512-7-1:2010 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.

<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	-
ISO 48	2007	Rubber, vulcanized or thermoplastic - Determination of hardness (hardness between 10 IRHD and 100 IRHD)	-	-

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 7-1: Impact tests (free connectors) – Test 7a: Free fall (repeated)

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 define a standard test method to assess the ability of a connector to withstand the impacts it would receive when dropped repeatedly.

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*

ISO 48:2007, *Rubber, vulcanized or thermoplastic – Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

3 Preparation of the specimen

Unless otherwise specified, the specimen shall not be mounted or wired, but shall be fitted with normal accessories (e.g. hoods, cable glands) according to the detail specification.

4 Test method

The test shall be executed by means of a rotating barrel as described in Clause 5. During a test not more than one sample shall be present in the barrel.

The barrel turns at a rate of approximately 5 rev/min.

The total number of revolutions (the number of falls is twice the number of revolutions) shall be according to the detail specification.

NOTE (Detail) specifications may define different numbers of revolutions for specimens with a different mass.

5 Test equipment

The specimen shall be tested in a tumbling barrel as shown in Figure 1.

Where a large number of specimens has to be tested, the barrel may contain a number of sections, one specimen being placed in each section, so that simultaneous testing may be carried out.