
Electromechanical components for electronic equipment - Basic testing procedure and measuring methods - Part 14: Sealing tests - Section 7: Test 14g: Impacting water (IEC 60512-14-7:1997)

Electromechanical components for electronic equipment - Basic testing procedures and measuring methods -- Part 14: Sealing tests -- Section 7: Test 14g: Impacting water

Elektrisch-mechanische Bauelemente für elektronische Einrichtungen - Meß- und Prüfverfahren -- Teil 14: Prüfungen der Dichtheit -- Hauptabschnitt 7: Prüfung 14g: Spritzwasser

Composants électromécaniques pour équipements électroniques - Procédures d'essai de base et méthodes de mesure -- Partie 14: Essais d'étanchéité -- Section 7: Essai 14g: Projection d'eau

Ta slovenski standard je istoveten z: EN 60512-14-7:1998

ICS:

31.220.01	Elektromehanske komponente (sestavni deli, gradniki) na splošno	Electromechanical components in general
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SIST EN 60512-14-7:2002**en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60512-14-7

February 1998

ICS 31.220.10

Descriptors: Electronic components, electronic equipment, connecting equipment, leak tests

English version

Electromechanical components for electronic equipment
Basic testing procedures and measuring methods
Part 14: Sealing tests
Section 7: Test 14g: Impacting water
(IEC 60512-14-7:1997)

Composants électromécaniques pour
équipements électroniques - Procédures
d'essai de base et méthodes de mesure
Partie 14: Essais d'étanchéité
Section 7: Essai 14g: Projection d'eau
(CEI 60512-14-7:1997)

Elektrisch-mechanische Bauelemente
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Hauptabschnitt 7: Prüfung 14g:
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This European Standard was approved by CENELEC on 1998-01-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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/638/FDIS, future edition 1 of IEC 60512-14-7, 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 60512-14-7 on 1998-01-01.

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) 1998-10-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1998-10-01

This standard is to be used in conjunction with EN 60512-1:1994.

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

iTeh STANDARD PREVIEW Endorsement notice (standards.iteh.ai)

The text of the International Standard IEC 60512-14-7:1997 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**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60068-2-18	1989	Environmental testing Part 2: Tests - Test R and guidance: Water	-	-
A1	1993		-	-
IEC 60512-2	1985	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods Part 2: General examination, electrical continuity and contact resistance tests, insulation tests and voltage stress tests	-	-
A1	1994		-	-

[SIST EN 60512-14-7:2002](https://standards.iteh.ai/catalog/standards/sist/6af5baa3-1d74-42e4-8701-cb590cb43934/sist-en-60512-14-7-2002)
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**NORME
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**INTERNATIONAL
STANDARD**

60512-14-7

Première édition
First edition
1997-10

**Composants électromécaniques pour
équipements électroniques – Procédures d'essai
de base et méthodes de mesure –**

Partie 14:

Essais d'étanchéité –

Section 7: Essai 14g: Projection d'eau

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**Electromechanical components for electronic
equipment – Basic testing procedures
and measuring methods –**

Part 14:

Sealing tests –

Section 7: Test 14g: Impacting water

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Commission Electrotechnique Internationale
International Electrotechnical Commission
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTROMECHANICAL COMPONENTS FOR ELECTRONIC EQUIPMENT –
BASIC TESTING PROCEDURES AND MEASURING METHODS –****Part 14: Sealing tests –
Section 7: Test 14g: Impacting water**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60512-14-7 has been prepared by IEC subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This standard should be used in conjunction with part 1: General, issued as IEC 60512-1.

The complete publication will include other tests which will be issued as they become available.

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

FDIS	Report on voting
48B/638/FDIS	48B/654/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.

ELECTROMECHANICAL COMPONENTS FOR ELECTRONIC EQUIPMENT – BASIC TESTING PROCEDURES AND MEASURING METHODS –

Part 14: Sealing tests – Section 7: Test 14g: Impacting water

1 Scope and object

This section of IEC 60512-14, when required by the detail specification, is used for testing electromechanical components within the scope of IEC technical committee 48. This test may also be used for similar components when specified in a detail specification.

This section of IEC 60512-14 defines a standard test method to assess the effects of impacting water or specified fluid on electrical connecting devices.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this section of IEC 60512-14. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this section of IEC 60512-14 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 60068-2-18: 1989, *Environmental testing – Part 2: Tests – Test R and guidance: Water*
Amendment 1 (1993)

IEC 60512-2: 1985, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 2: General examination, electrical continuity and contact resistance tests, insulation tests and voltage stress tests*
Amendment 1 (1994)

3 Preparation of the specimen

The specimen shall be equipped with normal accessories as specified and shall be wired and mounted according to the detail specification. The operated condition of the specimen shall be specified by the detail specification.

4 Test method

4.1 Initial measurements

The specimen shall be subjected to the following test:

- insulation resistance, test 3a of IEC 60512-2.