
Konektorji za elektronsko opremo - Preskusi in meritve - 11-7. del: Klimatski preskusi - Preskus 11g: Preskus korozije z mešanico tekočih plinov (IEC 60512-11-7:2003)

Connectors for electronic equipment - Tests and measurements - Part 11- 7: Climatic tests - Test 11g: Flowing mixed gas corrosion test (IEC 60512-11-7:2003)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60512-11-7:2004](https://standards.iteh.ai/catalog/standards/sist/7a00f6fd-f8f6-4915-ab5c-df54bdbac9b1/sist-en-60512-11-7-2004)

<https://standards.iteh.ai/catalog/standards/sist/7a00f6fd-f8f6-4915-ab5c-df54bdbac9b1/sist-en-60512-11-7-2004>

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

SIST EN 60512-11-7:2004

<https://standards.iteh.ai/catalog/standards/sist/7a00f6fd-f8f6-4915-ab5c-df54bdbac9b1/sist-en-60512-11-7-2004>

English version

**Connectors for electronic equipment -
Tests and measurements
Part 11- 7: Climatic tests -
Test 11g: Flowing mixed gas corrosion test
(IEC 60512-11-7:2003)**

Connecteurs pour équipements
électroniques -
Essais et mesures
Partie 11-7: Essais climatiques -
Essai 11g: Essai de corrosion
dans un flux de mélange de gaz
(CEI 60512-11-7:2003)

Steckverbinder für elektronische
Einrichtungen -
Mess- und Prüfverfahren
Teil 11-7: Klimatische Prüfungen -
Prüfung 11g: Korrosionsprüfung
mit strömendem Mischgas
(IEC 60512-11-7:2003)

<https://standards.iteh.ai/catalog/standards/sist/7a00f6fd-f8f6-4915-ab5c-df54bdbac9b1/sist-en-60512-11-7-2004>

This European Standard was approved by CENELEC on 2003-09-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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/1326/FDIS, future edition 2 of IEC 60512-11-7, 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 60512-11-7 on 2003-09-01.

This standard is to be used in conjunction with EN 60512-1:2001.

This European Standard supersedes EN 60512-11-7:1996.

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) 2004-06-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-09-01

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 (standards.itih.ai)

Endorsement notice

The text of the International Standard IEC 60512-11-7:2003 was approved by CENELEC as a European Standard without any modification.

SIST EN 60512-11-7:2004

<https://standards.itih.ai/catalog/standards/sist/7a00f6fd-f8f6-4915-ab5c-df54bdbac9b1/sist-en-60512-11-7-2004>

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 60068-2-60	1995	Environmental testing Part 2: Tests - Test Ke: Flowing mixed gas corrosion test	EN 60068-2-60	1996
IEC 60512-1-1	2002	Connectors for electronic equipment - Tests and measurements Part 1-1: General examination - Test 1a: Visual examination	EN 60512-1-1	2002
IEC 60512-2-1	2002	Part 2-1: Electrical continuity and contact resistance tests - Test 2a: Contact resistance - Millivolt level method	EN 60512-2-1	2002
IEC 60512-2-2	- ¹⁾	Part 2-2: Electrical continuity and contact resistance tests - Test 2b: Contact resistance - Specified test current method	EN 60512-2-2	2003 ²⁾
IEC 60512-13-1	1996	Part 13: Mechanical operating tests - Section 1: Test 13a: Engaging and separating forces	EN 60512-13-1	1997

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

SIST EN 60512-11-7:2004

<https://standards.iteh.ai/catalog/standards/sist/7a00f6fd-f8f6-4915-ab5c-df54bdbac9b1/sist-en-60512-11-7-2004>

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60512-11-7

Deuxième édition
Second edition
2003-05

**Connecteurs pour équipements électroniques –
Essais et mesures –**

**Partie 11-7:
Essais climatiques –**

**Essai 11g: Essai de corrosion
dans un flux de mélange de gaz**

**Connectors for electronic equipment –
Tests and measurements –**

**Part 11-7:
Climatic tests –
Test 11g: Flowing mixed gas corrosion test**

© IEC 2003 Droits de reproduction réservés — Copyright - all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission, 3, rue de Varembe, PO Box 131, CH-1211 Geneva 20, Switzerland
Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

E

Pour prix, voir catalogue en vigueur
For price, see current catalogue

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –
TESTS AND MEASUREMENTS –****Part 11-7: Climatic tests –
Test 11g: Flowing mixed gas corrosion test**

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 specifications, 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 60512-11-7 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This standard is to be used in conjunction with IEC 60512-1.

This second edition cancels and replaces the first edition published in 1996. It constitutes a technical revision.

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

FDIS	Report on voting
48B/1326/FDIS	48B/1353/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.

The committee has decided that the contents of this publication will remain unchanged until January 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 11-7: Climatic tests – Test 11g: Flowing mixed gas corrosion test

1 Scope and object

This part of IEC 60512 defines a standard test method, Test 11g, to assess the effects of a controlled atmosphere polluted by gases at very low concentration on electrical contacts or connections.

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 60068-2-60:1995, *Environmental testing – Part 2: Tests – Test Ke: Flowing mixed gas corrosion test*

IEC 60512-1-1:2002, *Connectors for electronic equipment – Tests and measurements – Part 1-1: General examination – Test 1a: Visual examination*

IEC 60512-2-1:2002, *Connectors for electronic equipment – Tests and measurements – Part 2-1: Electrical continuity and contact resistance tests – Test 2a: Contact resistance – Millivolt level method*

IEC 60512-2-2, *Connectors for electronic equipment – Tests and measurements – Part 2-2: Electrical continuity and contact resistance tests – Test 2b: Contact resistance – Specified test current method*

IEC 60512-13-1:1996, *Electromechanical components for electronic equipment – Basic testing procedures and measuring methods – Part 13: Mechanical operating tests – Section 1: Test 13a: Engaging and separating forces*

3 Preparation

3.1 Preparation of specimen

The specimen, equipped with normal accessories, shall be mounted and wired in accordance with the detail specification.

When required by the detail specification, the specimen shall be operated the number of times specified, prior to test.

For each test carried out, the detail specification shall specify the condition of the component, for example, mated or unmated.

3.2 Conditioning

Conditioning prior to the test shall be carried out in accordance with the requirements of the detail specification.