SLOVENSKI STANDARD

SIST EN 60512-11-2:2003

oktober 2003

Connectors for electronic equipment - Tests and measurements - Part 11-2: Climatic tests - Test 11b: Combined/sequential cold, low air pressure and damp heat (IEC 60512-11-2:2002)

ICS 31.220.10

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English version

Connectors for electronic equipment - Tests and measurements Part 11-2: Climatic tests - Test 11b: Combined/sequential cold, low air pressure and damp heat

(IEC 60512-11-2:2002)

Connecteurs pour équipements électroniques - Essais et mesures Partie 11-2: Essais climatiques - Essai 11b: Essai combiné séquentiel de froid, basse pression atmosphérique et chaleur humide (CEI 60512-11-2:2002)

Steckverbinder für elektronische Einrichtungen - Mess- und Prüfverfahren Teil 11-2: Klimatische Prüfungen - Prüfung 11b: Kombinierte Prüfung Kälte, Unterdruck und feuchte Wärme (IEC 60512-11-2:2002)

This European Standard was approved by CENELEC on 2002-04-01. 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, Malta, 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

Ref. No. EN 60512-11-2:2002 E

Foreword

The text of document 48B/1143/FDIS, future edition 1 of IEC 60512-11-2, 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 was approved by CENELEC as EN 60512-11-2 on 2002-04-01.

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) 2003-01-01

– latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-04-01

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.

Endorsement notice

The text of the International Standard IEC 60512-11-2:2002 was approved by CENELEC as a European Standard without any modification.

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.

Publication	Year	Title	EN/HD	Year
IEC 60068-2-39	1976	Environmental testing Part 2: Tests - Test Z/AMD: Combined sequential cold, low air pressure and damp heat test	EN 60068-2-39	1999

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 11-2: Climatic tests – Test 11b: Combined/sequential cold, low air pressure and damp heat

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.
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International Standard IEC 60512-11-2 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 11b of IEC 60512-6, issued in 1984, and constitutes a technical revision.

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

FDIS	Report on voting
48B/1143/FDIS	48B/1193/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 3.

The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

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

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 11-2: Climatic tests – Test 11b: Combined/sequential cold, low air pressure and damp heat

1 General

1.1 Scope and object

This part of IEC 60512, 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 devices when specified in a detail specification.

The object of this test is to define a standard test method to assess the ability of components to function in a specified manner, during and after subjection to the conditions which prevail to some extent everywhere in an aircraft during ascent and descent, but which are particularly severe in unheated and/or unpressurized zones.

1.2 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 60068-2-39:1976, *Environmental testing – Part 2: Tests – Test Z/AMD: Combined sequential cold, low air pressure and damp heat test*

2 Preparation

2.1 Preparation of the specimen

When required by the detail specification, the specimen shall be mated and unmated as many times as specified prior to testing.

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

Arrangements necessary for any monitoring required by the detail specification shall be made.

2.2 Wiring of specimen

Specimens shall be wired as specified in the detail specification. If, exceptionally, any features of the specimen (for example the rear ends of the contacts of hermetically sealed fixed connectors) are to be protected in any way, the protection shall be in accordance with the detail specification.