
Konektorji za elektronsko opremo – Preskusi in meritve – 12-5. del: Spajkalni preskusi – Preskus 12e: Odpornost proti spajkalni temperaturi, metoda s spajkalnikom (IEC 60512-12-5:2006)

Connectors for electronic equipment - Tests and measurements - Part 12-5: Soldering tests - Test 12e: Resistance to soldering heat, soldering iron method (IEC 60512-12-5:2006)

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**Connectors for electronic equipment -
Tests and measurements
Part 12-5: Soldering tests -
Test 12e: Resistance to soldering heat, soldering iron method
(IEC 60512-12-5:2006)**

Connecteurs pour équipements
électroniques -
Essais et mesures
Partie 12-5: Essais de soudure -
Essai 12e: Résistance à la chaleur
de soudage, méthode du fer à souder
(CEI 60512-12-5:2006)

Steckverbinder für elektronische
Einrichtungen -
Mess- und Prüfverfahren
Teil 12-5: Prüfungen der Lötbarkeit -
Prüfung 12e: Lötwärmebeständigkeit,
Lötkolbenverfahren
(IEC 60512-12-5:2006)

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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/1580/FDIS, future edition 1 of IEC 60512-12-5, 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 60512-12-5 on 2006-03-01.

This standard is to be read in conjunction with EN 60512-1 and EN 60512-1-100 which explains the structure of the EN 60512 series.

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) 2006-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-03-01

This European Standard makes reference to International Standards. Where the International Standard referred to has been endorsed as a European Standard or a home-grown European Standard exists, this European Standard shall be applied instead. Pertinent information can be found on the CENELEC web site.

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

**Partie 12-5:
Essais de soudure –**

**Essai 12e: Résistance à la chaleur de soudage,
méthode du fer à souder**

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

**Part 12-5:
Soldering tests –
Test 12e: Resistance to soldering heat,
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –
TESTS AND MEASUREMENTS –****Part 12-5: Soldering tests –
Test 12e: Resistance to soldering heat,
soldering iron method**

FOREWORD

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International Standard IEC 60512-12-5 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 12e of IEC 60512-6, issued in 1984, and constitutes a technical revision. This standard is to be read in conjunction with IEC 60512-1 and IEC 60512-1-100 which explains the structure of the IEC 60512 series.

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

FDIS	Report on voting
48B/1580/FDIS	48B/1613/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.

IEC 60512-12 consists of the following parts, under the general title *Connectors for electronic equipment – Tests and measurements*:

- Part 12-1: Soldering tests – Test 12a: Solderability, wetting, solder bath method¹
- Part 12-2: Soldering tests – Test 12b: Solderability, wetting, soldering iron method
- Part 12-3: Soldering tests – Test 12c: Solderability, de-wetting
- Part 12-4: Soldering tests – Test 12d: Resistance to soldering heat, solder bath method
- Part 12-5: Soldering tests – Test 12e: Resistance to soldering heat, soldering iron method
- Part 12-6: Soldering tests – Test 12f: Sealing against flux and cleaning solvents in machine soldering
- Part 12-7: Soldering tests – Test 12g: Solderability, wetting, balance method

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed; <https://standards.iteh.ai/catalog/standards/sist/00c142f0-5864-4e03-9fa3-c3dbf0f0e5a0/sist-en-60512-12-5-2006>
- withdrawn;
- replaced by a revised edition, or
- amended.

¹ Under consideration.

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 12-5: Soldering tests – Test 12e: Resistance to soldering heat, soldering iron method

1 Scope and object

This part of IEC 60512, when required by the detail specification, is used for testing connectors within the scope of IEC technical committee 48. They may also be used for similar devices when specified in a detail specification.

The object of this part of IEC 60512 is to detail a standard test method to assess the ability of a connector to withstand the heating stresses produced by a soldering iron.

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 60068-2-20, *Environmental testing – Part 2: Tests. Test T: Soldering*
[SIST EN 60512-12-5:2006](https://standards.iteh.ai/catalog/standards/sist/00c14270-5864-4e03-9633-c3dbf00e3a0/sist-en-60512-12-5-2006)

IEC 60512-1-1, *Connectors for electronic equipment – Tests and measurements – Part 1-1: General examination – Test 1a: Visual examination*
<https://standards.iteh.ai/catalog/standards/sist/00c14270-5864-4e03-9633-c3dbf00e3a0/sist-en-60512-12-5-2006>

3 Preparation

3.1 Preparation of specimen

The specimen shall consist of a connector with its terminations, as given in the detail specification.

3.2 Preparation of soldering iron

A soldering iron whose working surface is at 350 °C, according to 5.6 of IEC 60068-2-20 shall be provided, the size of this iron shall be that given in the detail specification.

4 Method

4.1 Procedure

The test shall be carried out in accordance with, 5.6 of IEC 60068-2-20, Method 2: Soldering iron at 350 °C.