

IEC 60512-9-5

Edition 1.0 2010-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Connectors for electronic equipment – Tests and measurements – Part 9-5: Endurance tests – Test 9e: Current loading, cyclic

Connecteurs pour équipements électroniques – Essais et mesures – Partie 9-5: Essais d'endurance – Essai 9e: Charge en courant, essai cyclique



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 9-5: Endurance tests – Test 9e: Current loading, cyclic

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International Standard IEC 60512-9-5 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 9e of IEC 60512-5, issued in 1992. The structure of IEC 60512 series is explained in IEC 60512-1-100.

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

CDV	Report on voting
48B/2019/CDV	48B/2109/RVC

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.

A list of all parts of IEC 60512 series, under the general title Connectors for electronic equipment – Tests and measurements, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability 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, •
- withdrawn, •
- replaced by a revised edition, or
- amended. •

CONNECTORS FOR ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 9-5: Endurance tests – Test 9e: Current loading, cyclic

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 detail a standard method for subjecting solderless connections to thermal stress conditioning by cyclic current loading.

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, Connectors for electronic equipment – Tests and measurements – Part 1: General

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

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

IEC 60512-2-6, Connectors for electronic equipment – Tests and measurements – Part 2-6: Electrical continuity and contact resistance tests – Test 2f: Housing (shell) electrical continuity

IEC 60512-3-1, Connectors for electronic equipment – Tests and measurements – Part 3-1: Insulation tests – Test 3a: Insulation resistance

IEC 60512-4-1, Connectors for electronic equipment – Tests and measurements – Part 4-1: Voltage stress tests – Test 4a: Voltage proof

3 Preparation of the specimen

The specimen shall consist of a solderless connection made with the relevant termination and the appropriate conductor as specified in the detail specification.

4 Test method

Mounting and electrical connections in the test circuit shall be as specified in the detail specification, e.g. connection of several specimens in series.

The test shall be carried out in still air.