

STN	<p>Konektory pre elektrické a elektronické zariadenia Skúšky a merania Časť 99-002: Plány záťažových skúšok Skúška 99b: Plán skúšky pre rozpojenie pod elektrickou záťažou</p>	<p>STN EN IEC 60512-99-002</p>
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Connectors for electrical and electronic equipment - Tests and measurements - Part 99-002: Endurance test schedules - Test 99b: Test schedule for unmating under electrical load

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/19

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EN IEC 60512-99-002

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English Version

**Connectors for electrical and electronic equipment - Tests and measurements - Part 99-002: Endurance test schedules - Test 99b: Test schedule for unmating under electrical load
(IEC 60512-99-002:2019)**

Connecteurs pour équipements électriques et électroniques
- Essais et mesures - Partie 99-002: Programmes d'essais
d'endurance - Essai 99b: Programme d'essai pour le
désaccouplement sous charge électrique
(IEC 60512-99-002:2019)

Steckverbinder für elektrische und elektronische
Einrichtungen - Mess- und Prüfverfahren - Teil 99-002:
Prüfpläne für die Lebensdauer - Prüfung 99b: Prüfplan zum
unbeabsichtigten Trennen unter elektrischer Last
(IEC 60512-99-002:2019)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60512-99-002:2019 (E)**European foreword**

The text of document 48B/2703/FDIS, future edition 1 of IEC 60512-99-002, prepared by SC 48B "Electrical connectors" of IEC/TC 48 "Electrical connectors and mechanical structures for electrical and electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60512-99-002:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-01-12
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Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

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NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60512-1-1	-	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination - Test 1a: Visual examination	EN 60512-1-1	-
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	EN 60512-2-1	-
IEC 60512-3-1	-	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests - Test 3a: Insulation resistance	EN 60512-3-1	-
IEC 60512-4-1	-	Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof	EN 60512-4-1	-
IEC 60512-9-3	2011	Connectors for electronic equipment - Tests and measurements - Part 9-3: Endurance tests - Test 9c: Mechanical operation (engaging and separating) with electrical load	EN 60512-9-3	2011
IEC 60512-11-7	-	Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test	EN 60512-11-7	-
IEC 60512-99-001	-	Connectors for electronic equipment - Tests and measurements - Part 99-001: Test schedule for engaging and separating connectors under electrical load - Test 99a: Connectors used in twisted pair communication cabling with remote power	EN 60512-99-001	-
ISO/IEC TS 29125	2017	Information Technology Telecommunications cabling requirements for remote powering of terminal equipment	-	-

EN IEC 60512-99-002:2019 (E)

ISO/IEC 11801	series	Information technology - Generic cabling for customer premises	-	series
ANSI/TIA/EIA-568-A	1995	Commercial Building Telecommunications Cabling Standard	-	-
TIA TSB-184-A	2019	Guidelines for supporting power delivery over balanced twisted-pair cabling	-	-
TIA/EIA-568-B.2	2001	Commercial Building Telecommunications Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components	-	-



IEC 60512-99-002

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Connectors for electrical and electronic equipment – Tests and measurements –
Part 99-002: Endurance test schedules – Test 99b: Test schedule for unmating
under electrical load**

**Connecteurs pour équipements électriques et électroniques – Essais et
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Partie 99-002: Programmes d'essais d'endurance – Essai 99b: Programme
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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Connectors for electrical and electronic equipment – Tests and measurements –
Part 99-002: Endurance test schedules – Test 99b: Test schedule for unmating
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**Connecteurs pour équipements électriques et électroniques – Essais et
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d'essai pour le désaccouplement sous charge électrique**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION**CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –
TESTS AND MEASUREMENTS –****Part 99-002: Endurance test schedules –
Test 99b: Test schedule for unmating under electrical load****FOREWORD**

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International Standard IEC 60512-99-002 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
48B/2703/FDIS	48B/2725/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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

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CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT – TESTS AND MEASUREMENTS –

Part 99-002: Endurance test schedules – Test 99b: Test schedule for unmating under electrical load

1 Scope

This part of IEC 60512 is used for testing connectors within the scope of SC 48B that are used in twisted pair communication cabling with remote power, such as ISO/IEC 11801 Class D (or better), balanced cabling in support of IEEE Std 802.3bt™, (PoE Plus – Power over Ethernet Plus).

The object of this document is to detail a test schedule to determine the ability of pairs of connectors to withstand a sequence of tests with a total of 100 engagements and separations. The electrical current is passed through the connectors during the separation (unmating) step only, in accordance with IEC 60512-9-3.

2 Normative references

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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 60512-3-1, *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*

IEC 60512-9-3:2011, *Connectors for electronic equipment – Tests and measurements – Part 9-3: Endurance tests – Test 9c: Mechanical operation (engaging and separating) with electrical load*

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

IEC 60512-99-001, *Connectors for electronic equipment – Tests and measurements – Part 99-001: Test schedule for engaging and separating connectors under electrical load – Test 99a: Connectors used in twisted pair communication cabling with remote power*

ISO/IEC 11801(all parts): *Information technology – Generic cabling for customer premises*

ISO/IEC TS 29125: 2017, *Information technology – Telecommunications cabling requirements for remote powering of terminal equipment*

TIA-568-A:1995, *Commercial building telecommunications cabling standard*

TIA-568-B.2:2001, *Commercial building telecommunications cabling standard, Part 2: Balanced twisted-pair cabling components*

TIA TSB-184-A:2017, *Guidelines for supporting power delivery over balanced twisted-pair cabling*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN