BSI Standards Publication

Connectors for electrical and electronic equipment — Tests and measurements

Part 99-003: Endurance test schedules — Test 99c: Test schedule for balanced single-pair connectors separating (unmating) under electrical load

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National foreword

This British Standard is the UK implementation of EN IEC 60512-99-003:2023. It is identical to IEC 60512-99-003:2023.

The UK participation in its preparation was entrusted to Technical Committee EPL/48, Electromechanical components and mechanical structures for electronic equipment.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

Connectors for electrical and electronic equipment - Tests and measurements - Part 99-003: Endurance test schedules - Test 99c: Test schedule for balanced single-pair connectors separating (unmating) under electrical load (IEC 60512-99-003:2023)

Connecteurs pour équipements électriques et électroniques - Essais et mesures - Partie 99-003: Programmes d'essais d'endurance - Essai 99c: Programme d'essai des connecteurs à une seule paire symétrique lors de la séparation (désaccouplement) sous charge électrique (IEC 60512-99-003:2023)

Steckverbinder für elektrische und elektronische Einrichtungen - Prüfungen und Messungen - Teil 99-003: Dauerprüfpläne - Prüfung 99c: Prüfplan für symmetrische einpaarige Steckverbinder, die unter elektrischer Last getrennt werden (IEC 60512-99-003:2023)

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

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European foreword

The text of document 48B/3058/FDIS, future edition 1 of IEC 60512-99-003, 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 60512-99-003:2023.

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)	2024-08-03
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2026-11-03

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60512-99-002 NOTE Approved as EN IEC 60512-99-002

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

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.cencenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60050-581	-	International Electrotechnical Vocabulary - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60512-1	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 1: Generic specification	EN IEC 60512-1	-
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	-

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IEC 63171	series	Connectors for electrical and electronic equipment – Shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current-carrying capacity – General requirements and tests	EN IEC 63171	series
IEEE Std 802.3cg	2019	IEEE Standard for Ethernet - Amendment 5: Physical Layer Specifications and Management Parameters for 10 Mb/s Operation and Associated Power Delivery over a Balanced single-pair of Conductors	-	-

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CONTENTS

FOREWORD 3
1 Scope 5
2 Normative references 5
3 Terms, definitions and acronyms 6
3.1 Terms and definitions 6
3.2 Acronyms 6
4 General 6
5 Preparation of specimens 6
6 Test circuit requirements 6
6.1 General 6
6.2 Voltage and current 7
6.3 Auxiliary equipment 8
7 Test methods 8
7.1 Mechanical operations with electrical load 8
7.2 Flowing mixed gas corrosion 8
8 Test and test schedule – Test group UEL 1 8
Annex A (informative) Test voltage and current setting instructions 11
A.1 General 11
A.2 Rationale 11
A.3 Suggested setting instructions 11
Annex B (informative) Discussion of the test circuit elements 12
B.1 General 12
B.2 The test circuit elements 12
B.2.1 Power supply 12
B.2.2 Inductors 12
B.2.3 PD load 12
B.3 An example of calculating voltage and load 12
Annex C (informative) Development of the test circuit 13
C.1 Model of the PSE and the PD 13
C.2 Removal of the semiconductors 13
C.3 Combination of the elements 14
C.4 Further adjustments 14
C.5 Final schematic for unmating under load 15
Bibliography 16

Figure 1 – Test circuit diagram for one pole 7
Figure C.1 – PSE and PD model 13
Figure C.2 – Removal of the semiconductors 13
Figure C.3 – Combination of the elements 14
Figure C.4 – Removal of the capacitors and concentration of the inductors 14
Figure C.5 – Final schematic 15

Table 1 – Remote powering test requirements 7
Table 2 – Test group UEL 1 9

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