

Solderless connections - Part 8: Compression mount connections - General requirements, test methods and practical guidance

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60352-8:2011 sisaldab Euroopa standardi EN 60352-8:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.04.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 25.03.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60352-8:2011 consists of the English text of the European standard EN 60352-8:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 25.03.2011.

The standard is available from Estonian standardisation organisation.

ICS 13.220.10

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**Solderless connections -
Part 8: Compression mount connections -
General requirements, test methods and practical guidance
(IEC 60352-8:2011)**

Connexions sans soudure -
Partie 8: Connexions par compression -
Exigences générales, méthodes d'essai et
guide pratique
(CEI 60352-8:2011)

Lötfreie Verbindungen -
Teil 8: Druckmontage-Verbindungen -
Allgemeine Anforderungen, Prüfverfahren
und Anwendungshinweise
(IEC 60352-8:2011)

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CENELEC

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

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Foreword

The text of document 48B/2223/FDIS, future edition 1 of IEC 60352-8, 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 60352-8 on 2011-03-17.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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) 2011-12-17
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2014-03-17

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60352-8:2011 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-581	2000	International Electrotechnical Vocabulary - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1 + A1	1988 1992	Environmental testing - Part 1: General and guidance	EN 60068-1	1994
IEC 60512	Series	Connectors for electronic equipment - Tests and measurements	EN 60512	Series
IEC 60512-1	-	Connectors for electronic equipment - Tests and measurements - Part 1: General	EN 60512-1	-
IEC 60512-1-100	-	Connectors for electronic equipment - Tests and measurements - Part 1-100: General - Applicable publications	EN 60512-1-100	-
IEC 61249-2-7	2002	Materials for printed boards and other interconnecting structures - Part 2-7: Reinforced base materials, clad and unclad - Epoxide woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad	EN 61249-2-7 + corr. September	2002 2005

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INTRODUCTION

This part of IEC 60352 includes requirements, tests and practical guidance information.

Two test schedules are provided:

A basic test schedule applies to compression mount connections which conform to all of the requirements given in Clause 4.

A full test schedule applies to compression mount connections which are part of a new component and have already passed the basic test schedule or to connections of the same kind which do not fully comply with the requirements of Clause 4.

Requirements given in Clause 4 are derived from experience with successful applications of such compression mount connections.

IEC Guide 109 advocates the need to minimize the impact of a product on the natural environment throughout the product life cycle.

It is understood that some of the materials permitted in this standard may have a negative environmental impact.

As technological advances lead to acceptable alternatives for these materials, they will be eliminated from the standard.

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SOLDERLESS CONNECTIONS –

Part 8: Compression mount connections – General requirements, test methods and practical guidance

1 Scope and object

This part of IEC 60352 is applicable to compression mount connections with metallic spring contacts for use in telecommunication equipments and in other electronic devices employing similar techniques.

Information on materials and data from industrial experience are included in addition to the test procedures to provide electrically stable connections under prescribed environmental conditions.

The object of this part of IEC 60352 is to determine the suitability of compression mount connections under specified electrical, mechanical and atmospheric conditions and to provide a means of comparing test results when the tools used to make the connectors are of different designs or manufacture.

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 60050(581):2008, *International Electrotechnical Vocabulary (IEV) – Part 581: Electromechanical components for electronic equipment*

IEC 60068-1:1988, *Environmental testing – Part 1: General and guidance*
Amendment 1 (1992)

IEC 60512 (all parts), *Connectors for electric equipment – Tests and measurements*

IEC 60512-1, *Connectors for electronic equipment – Tests and measurements – Part 1: General*

IEC 60512-1-100, *Connectors for electric equipment – Tests and measurements – Part 1-100: General – Applicable publications*

IEC 61249-2-7:2002, *Materials for printed boards and other interconnecting structures – Part 2-7: Reinforced base materials clad and unclad – Epoxide woven E-glass laminated sheet of defined flammability (vertical burning test), copper-clad*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050(581) and IEC 60512-1 as well as the following (additional) terms and definitions apply.

3.1

compression mount connection

solderless connection between a compression mount contact and a contact pad which is established by a continuous compression force