

Connectors for electronic equipment - Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60603-7-1:2011 sisaldab Euroopa standardi EN 60603-7-1:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.06.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

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This Estonian standard EVS-EN 60603-7-1:2011 consists of the English text of the European standard EN 60603-7-1:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.06.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English version

**Connectors for electronic equipment -
Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors
(IEC 60603-7-1:2011)**

Connecteurs pour équipements
électroniques -
Partie 7-1: Spécification particulière pour
les fiches et les embases écrantées à 8
voies
(CEI 60603-7-1:2011)

Steckverbinder für elektronische
Einrichtungen -
Teil 7-1: Bauartspezifikation für
geschirmte freie und feste Steckverbinder,
8polig
(IEC 60603-7-1:2011)

This European Standard was approved by CENELEC on 2011-05-12. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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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/2163/CDV, future edition 3 of IEC 60603-7-1, 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 60603-7-1 on 2011-05-12.

This European Standard supersedes EN 60603-7-1:2009.

EN 60603-7-1:2011 includes the following significant technical changes with respect to EN 60603-7-1:2009:

- the correction, or inclusion, of technical references;
- the harmonization of terminology with other parts of the EN 60603-7 series and other referenced documents;
- the modification of screen dimensions so as to include connectors on the market;
- the inclusion of two new test groups (EP and FP) that provides the necessary cascading and references to other parts of the EN 60603-7 series, and satisfies the requirements of ISO/IEC 11801 to enable correct referencing.

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) 2012-02-12
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2014-05-12

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60603-7-1:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068-1	NOTE Harmonized as EN 60068-1.
IEC 60603-7-7	NOTE Harmonized as EN 60603-7-7.
IEC 60603-7-71	NOTE Harmonized as EN 60603-7-71.

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 60068-2-38	-	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	EN 60068-2-38	-
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 60603-7	2008	Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors	EN 60603-7	2009
IEC 60603-7	Series	Connectors for electronic equipment	EN 60603-7	Series
IEC 60664-1	-	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	-
IEC 62153-4-12	-	Metallic communication cable test methods - Part 4-12: Electromagnetic compatibility (EMC) - Coupling attenuation or screening attenuation of connecting hardware - Absorbing clamp method	-	-
ISO 1302	-	Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation	EN ISO 1302	-

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INTRODUCTION

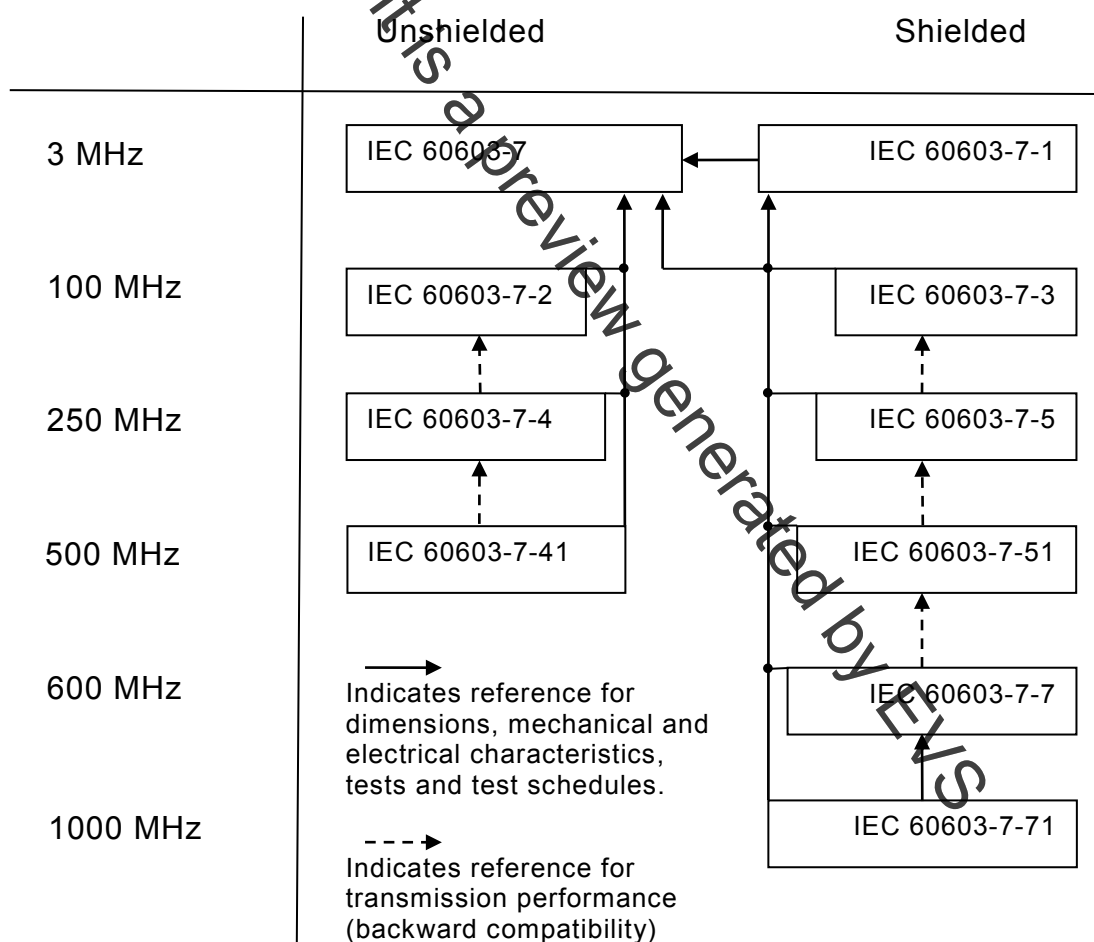
Applications have emerged which require the use of the interface described in IEC 60603-7 with certain performance specifications at higher frequencies. Therefore, a series of detail specifications have been issued in the past few years in support of these new applications. In order to improve readability and ease of maintenance, IEC subcommittee 48B (SC 48B) decided to rearrange and restructure these existing documents.

This part of IEC 60603-7 contains only the necessary information regarding the shield of the connector and is designed to be used as a base document for all shielded connectors in the IEC 60603-7 series.

For further information regarding the IEC 60603-7 style connectors, reference is made to the unshielded base document IEC 60603-7.

IEC 60603-7 is the base specification of the whole series. Subsequent specifications do not duplicate information given in the base document, but list only additional requirements.

The following illustration shows the structure of the IEC 60603-7 series:



CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors

1 General

1.1 Scope

This part of IEC 60603-7 covers 8-way shielded free and fixed connectors. It specifies the dimensions, mechanical, electrical and environmental characteristics and tests, in relation to the shield, additional to those in IEC 60603-7.

These connectors are interchangeable and interoperable with other IEC 60603-7 series connectors as defined in IEC 60603-7.

1.2 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 60068-2-38, *Environmental testing – Part 2-38: Tests – Test Z/AD: Composite temperature/ humidity cyclic test*

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

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

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

IEC 60603-7 (all parts), *Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors*

IEC 60603-7:2008, *Connectors for electronic equipment – Part 7: Detail specification for 8-way, unshielded, free and fixed connectors*

IEC 60664-1, *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*

IEC 62153-4-12, *Metallic communication cable test methods – Part 4-12: Electromagnetic compatibility (EMC) – Coupling attenuation or screening attenuation of connecting hardware – Absorbing clamp method*

ISO 1302, *Geometrical Product Specifications (GPS) – Indication of surface texture in technical product documentation*

2 Terms and definitions

For the purposes of this document, the terms and definitions in Clause 2 of IEC 60603-7:2008 applies.