



**NSAI**  
Standards

Irish Standard  
I.S. EN 60603-7-1:2011

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

## I.S. EN 60603-7-1:2011

*Incorporating amendments/corrigenda issued since publication:*

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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

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## 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.

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## 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.

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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 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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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### CONNECTORS FOR ELECTRONIC EQUIPMENT –

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

### FOREWORD

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International Standard IEC 60603-7-1 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This third edition cancels and replaces the second edition, published in 2009, and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- 1) the correction, or inclusion, of technical references;
- 2) the harmonization of terminology with other parts of the IEC 60603-7 series and other referenced documents;
- 3) the modification of screen dimensions so as to include connectors on the market;

- 4) the inclusion of two new test groups (EP and FP) that provides the necessary cascading and references to other parts of the IEC 60603-7 series, and satisfies the requirements of ISO/IEC 11801 to enable correct referencing.

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

CDV	Report on voting
48B/2163/CDV	48B/2209/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 the IEC 60603 series, under the general title *Connectors for electronic equipment*, 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.

## INTRODUCTION

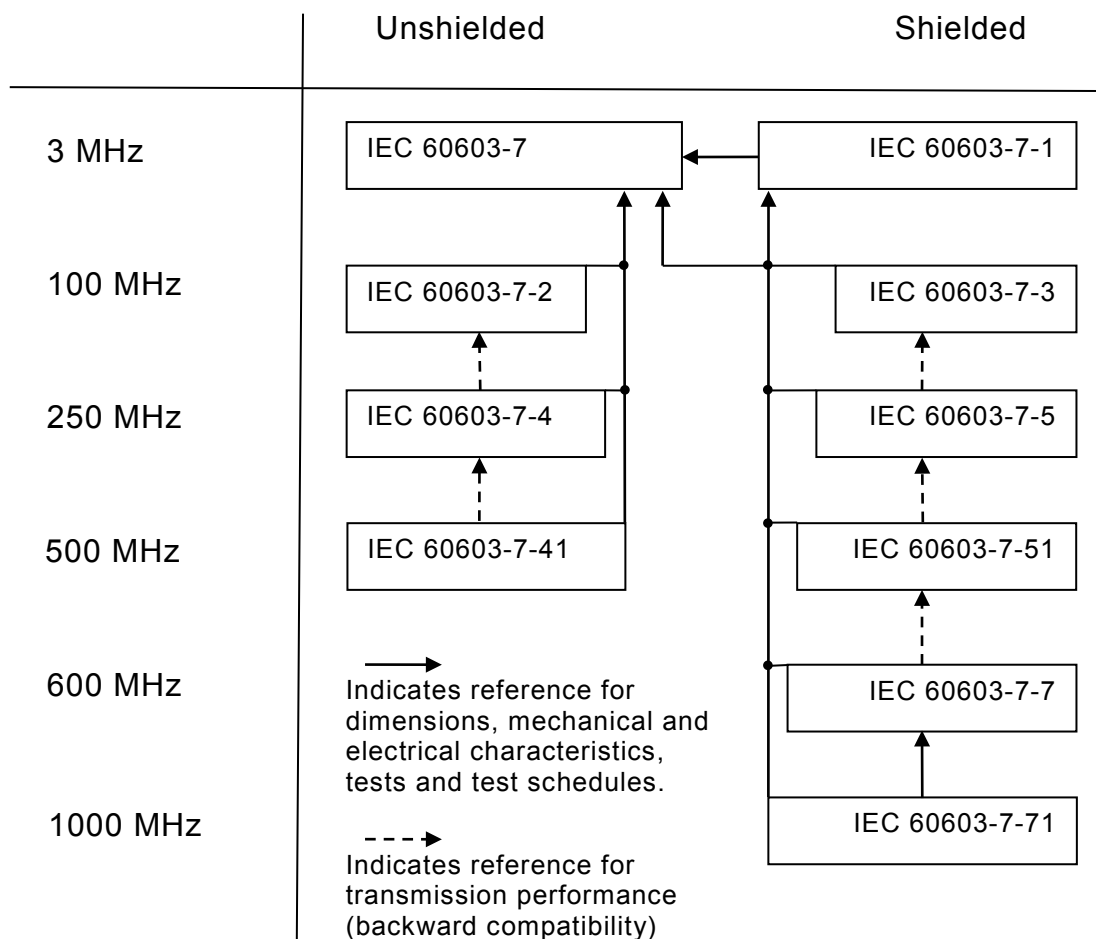
Applications have emerged which require the use of the interface described in IEC 60603-7 with certain performance specifications at higher frequencies. Therefore, a series of detail specifications have been issued in the past few years in support of these new applications. In order to improve readability 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:



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