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**Konektorji za elektronsko opremo - 7-7. del: Podrobna specifikacija za 8-polne, zaslonjene, proste in nespremenljive konektorje za prenos podatkov s frekvencami do 600 MHz (IEC 60603-7-7:2006)**

**(istoveten EN 60603-7-7:2006)**

Connectors for electronic equipment - Part 7-7: Detail specification for 8-way, shielded, free and fixed connectors, for data transmission with frequencies up to 600 MHz (IEC 60603-7-7:2006)

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English version

**Connectors for electronic equipment  
Part 7-7: Detail specification for 8-way, shielded,  
free and fixed connectors for data transmission  
with frequencies up to 600 MHz  
(IEC 60603-7-7:2006)**

Connecteurs pour équipements  
électroniques  
Partie 7-7: Spécification particulière  
pour les fiches et les embases blindées  
à 8 voies pour la transmission  
des données à des fréquences  
jusqu'à 600 MHz  
(CEI 60603-7-7:2006)

Steckverbinder für elektronische  
Einrichtungen  
Teil 7-7: Bauartspezifikation  
für geschirmte freie und feste  
Steckverbinder, 8-polig, für  
Datenübertragungen bis 600 MHz  
(IEC 60603-7-7:2006)

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This European Standard was approved by CENELEC on 2006-07-01. 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.

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**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 48B/1664/FDIS, future edition 2 of IEC 60603-7-7, 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 60603-7-7 on 2006-07-01.

This European Standard supersedes EN 60603-7-7: 2002.

The following changes have been made:

- Many minor detail changes concerning the harmonization of this document, its specifications and its test procedures with those contained in the other IEC/EN 60603-7 series standards.
- Significant performance improvements have been made to insertion loss and return loss, now specified to 1 000 MHz, for special applications (ISO/IEC 15018).

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) 2007-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-07-01

The International Electrotechnical Commission (IEC) and CENELEC draw attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning the switch given in 2.2.2.

The IEC and CENELEC take no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with the IEC. Information may be obtained from:

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Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60603-7-7:2006 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	- <sup>1)</sup>	International Electrotechnical Vocabulary (IEV) Chapter 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	- <sup>1)</sup>	Environmental testing Part 1: General and guidance	EN 60068-1	1994 <sup>2)</sup>
IEC 60068-2-38	- <sup>1)</sup>	Environmental testing Part 2: Tests - Test Z/AD: Composite temperature/humidity cyclic test	EN 60068-2-38	1999 <sup>2)</sup>
IEC 60169-16	- <sup>1)</sup>	Radio-frequency connectors Part 16: R.F. coaxial connectors with inner diameter of outer conductor 7 mm (0,276 in) with screw coupling - Characteristic impedance 50 ohms (75 ohms) (Type N)	-	-
IEC 60352-2	- <sup>1)</sup>	Solderless connections Part 2: Solderless crimped connections - General requirements, test methods and practical guidance	EN 60352-2	2006 <sup>2)</sup>
IEC 60352-3	- <sup>1)</sup>	Solderless connections Part 3: Solderless accessible insulation displacement connections - General requirements, test methods and practical guidance	EN 60352-3	1994 <sup>2)</sup>
IEC 60352-4	- <sup>1)</sup>	Solderless connections Part 4: Solderless non-accessible insulation displacement connections - General requirements, test methods and practical guidance	EN 60352-4	1994 <sup>2)</sup>
IEC 60352-5	- <sup>1)</sup>	Solderless connections Part 5: Press-in connections - General requirements, test methods and practical guidance	EN 60352-5 + A1	2001 <sup>2)</sup> 2003

<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60352-6	- <sup>1)</sup>	Solderless connections Part 6: Insulation piercing connections - General requirements, test methods and practical guidance	EN 60352-6	1997 <sup>2)</sup>
IEC 60352-7	- <sup>1)</sup>	Solderless connections Part 7: Spring clamp connections - General requirements, test methods and practical guidance	EN 60352-7	2002 <sup>2)</sup>
IEC 60512	Series	Connectors for electronic equipment - Tests and measurements	EN 60512	Series
IEC 60512-1-100	- <sup>1)</sup>	Connectors for electronic equipment - Tests and measurements Part 1-100: General - Applicable publications	EN 60512-1-100	2006 <sup>2)</sup>
IEC 60603-1	- <sup>1)</sup>	Connectors for frequencies below 3 MHz for use with printed boards Part 1: Generic specification - General requirements and guide for the preparation of detail specifications, with assessed quality	EN 60603-1	1998 <sup>2)</sup>
IEC 60603-7	- <sup>1)</sup>	Connectors for frequencies below 3 MHz for use with printed boards Part 7: Detail specification for connectors, 8-way, including fixed and free connectors with common mating features, with assessed quality	EN 60603-7	1997 <sup>2)</sup>
IEC 60603-7-5	- <sup>1)</sup>	Connectors for electronic equipment Part 7-5: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 250 MHz		-
IEC 60664-1 (mod)	- <sup>1)</sup>	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	EN 60664-1	2003 <sup>2)</sup>
IEC 61076-1	- <sup>1)</sup>	Connectors for electronic equipment - Product requirements Part 1: Generic specification	EN 61076-1	2006 <sup>2)</sup>
IEC 61156	Series	Multicore and symmetrical pair/quad cables for digital communications	-	-
ISO/IEC 11801	2002	Information technology - Generic cabling for customer premises	-	-
ISO 1302	- <sup>1)</sup>	Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation	EN ISO 1302	2002 <sup>2)</sup>
ITU-T G.117	- <sup>1)</sup>	Transmission aspects of unbalance about earth	-	-
ITU-T K.20	- <sup>1)</sup>	Resistibility of telecommunication equipment installed in a telecommunications centre to overvoltages and overcurrents	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ITU-T K.44	- <sup>1)</sup>	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents - Basic Recommendation	-	-
ITU-T O.9	- <sup>1)</sup>	Measuring arrangements to assess the degree of unbalance about earth	-	-
-	-	Communication cables - Specifications for test methods Part 1-14: Electrical test methods - Coupling attenuation or screening attenuation of connecting hardware	EN 50289-1-14	- <sup>1)</sup>

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# INTERNATIONAL STANDARD

# IEC 60603-7-7

Second edition  
2006-06

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## Connectors for electronic equipment –

### Part 7-7:

**Detail specification for 8-way, shielded,  
free and fixed connectors, for data  
transmissions with frequencies up to 600 MHz**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –****Part 7-7: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 600 MHz**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning the switch given in 2.2.2.

The IEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he/she is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with IEC. Information may be obtained from:

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. IEC shall not be held responsible for identifying any or all such patent rights.

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

This second edition cancels and replaces the first edition published in 2002. This edition constitutes a technical revision.

The following changes to the first edition have been made in this second edition:

- Many minor detail changes concerning the harmonization of this document, its specifications and its test procedures with those contained in the other IEC 60603-7 series standards.
- Significant performance improvements have been made to insertion loss and return loss, now specified to 1 000 MHz, for special applications (ISO/IEC 15018).

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

FDIS	Report on voting
48B/1664/FDIS	48B/1691/RVD

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 IEC 60603 series, under the general title *Connectors for frequencies below 3 MHz for use with printed boards*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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 [SIST EN 60603-7-7:2007](https://standards.iteh.ai/catalog/standards/sist/8b45e65f-6466-4f3d-9f30-def14ce34221/sist-en-60603-7-7-2007)
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