



# SLOVENSKI STANDARD SIST EN 60603-7-81:2016

01-julij-2016

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**Konektorji za elektronsko opremo - 7-81. del: Podrobna specifikacija za 8-polne, oklepljene, proste in pritrjene konektorje za prenos podatkov s frekvencami do 2000 MHz (IEC 60603-7-81:2015)**

Connectors for electronic equipment - Part 7-81: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 2 000 mhz (IEC 60603-7-81:2015)

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**Ta slovenski standard je istoveten z: EN 60603-7-81:2016**

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**ICS:**

|           |                               |                                        |
|-----------|-------------------------------|----------------------------------------|
| 31.220.10 | Vtiči in vtičnice, konektorji | Plug-and-socket devices.<br>Connectors |
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60603-7-81**

April 2016

ICS 31.220.10

English Version

Connectors for electronic equipment -  
Part 7-81: Detail specification for 8-way, shielded, free and fixed  
connectors, for data transmissions with frequencies  
up to 2 000 MHz  
(IEC 60603-7-81:2015)

Connecteurs pour équipements électroniques -  
Partie 7-81: Spécification particulière pour les fiches et les  
embases blindées à 8 voies pour la transmission de  
données à des fréquences jusqu'à 2 000 MHz  
(IEC 60603-7-81:2015)

Steckverbinder für elektronische Einrichtungen -  
Teil 7-81: Bauartspezifikation für geschirmte freie und feste  
Steckverbinder, 8polig, für Datenübertragungen bis 2 000  
MHz  
(IEC 60603-7-81:2015)

This European Standard was approved by CENELEC on 2016-01-20. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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

**EN 60603-7-81:2016****European foreword**

The text of document 48B/2451/FDIS, future edition 1 of IEC 60603-7-81, 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 60603-7-81:2016.

The following dates are fixed:

- latest date by which the document has to be (dop) 2016-10-20  
implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2019-01-20  
standards conflicting with the  
document have to be withdrawn

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**Endorsement notice**

The text of the International Standard IEC 60603-7-81:2015 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 60603-7-2:2010  | NOTE | Harmonized as EN 60603-7-2:2010 (not modified).  |
| IEC 60603-7-3:2010  | NOTE | Harmonized as EN 60603-7-3:2010 (not modified).  |
| IEC 60603-7-4:2010  | NOTE | Harmonized as EN 60603-7-4:2010 (not modified).  |
| IEC 60603-7-41:2010 | NOTE | Harmonized as EN 60603-7-41:2010 (not modified). |
| IEC 60603-7-51:2010 | NOTE | Harmonized as EN 60603-7-51:2010 (not modified). |
| IEC 60603-7-7:2010  | NOTE | Harmonized as EN 60603-7-7:2010 (not modified).  |
| IEC 60603-71:2010   | NOTE | Harmonized as EN 60603-71:2010 (not modified).   |

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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.cenelec.eu](http://www.cenelec.eu)

| <u>Publication</u> | <u>Year</u> | <u>Title</u>                                                                                                                                                                                                     | <u>EN/HD</u>    | <u>Year</u> |
|--------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|
| 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 60512-25-9     | -           | Connectors for electronic equipment - Tests and measurements - Part 25-9: Signal integrity tests - Test 25i: Alien crosstalk                                                                                     | EN 60512-25-9   | -           |
| IEC 60512-26-100   | -           | Connectors for electronic equipment - Tests and measurements - Part 26-100: Measurement setup, test and reference arrangements and measurements for connectors according to IEC 60603-7 - Tests 26a to 26g       | EN 60512-26-100 | -           |
| IEC 60512-28-100   | -           | Connectors for electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 1 000 MHz on IEC 60603-7 and IEC 61076-3 series connectors - Tests 28a to 28g                           | EN 60512-28-100 | -           |
| 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 60603-7-1      | 2011        | Connectors for electronic equipment - Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors                                                                                              | EN 60603-7-1    | 2011        |
| IEC 61156          | Series      | Multicore and symmetrical pair/quad cables for digital communications                                                                                                                                            | -               | -           |
| IEC 62153-4-15     | 2015        | Metallic communication cable test methods - Part 4-15: Electromagnetic compatibility (EMC) - Test method for measuring transfer impedance and screening attenuation - or coupling attenuation with triaxial cell | -               | -           |

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IEC 60603-7-81

Edition 1.0 2015-12

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Connectors for electronic equipment –**  
**Part 7-81: Detail specification for 8-way, shielded, free and fixed connectors, for**  
**data transmissions with frequencies up to 2 000 MHz**

**Connecteurs pour équipements électroniques –**  
**Partie 7-81: Spécification particulière pour les fiches et les embases blindées à**  
**8 voies pour la transmission de données à des fréquences jusqu'à 2 000 MHz**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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INTERNATIONALE

ICS 31.220.10

ISBN 978-2-8322-3009-1

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## CONNECTORS FOR ELECTRONIC EQUIPMENT –

**Part 7-81: Detail specification for 8-way, shielded, free and fixed connectors, for data transmissions with frequencies up to 2 000 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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International Standard IEC 60603-7-81 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

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

| FDIS          | Report on voting |
|---------------|------------------|
| 48B/2451/FDIS | 48B/2464/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 in the IEC 60603 series, published 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 website 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.

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