

STN	Konektory pre elektronické zariadenia. Časť 7-82: Podrobná špecifikácia pre 8-pólové tienené, 12-kontaktné, tienené, voľné a pevné konektory na prenos dát pri frekvenciách do 2 000 MHz.	STN EN 60603-7-82
		35 4620

Connectors for electronic equipment - Part 7-82: Detail specification for 8-way, 12 contacts, shielded, free and fixed connectors, for data transmission with frequencies up to 2 000 MHz

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/17

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Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

EUROPEAN STANDARD

EN 60603-7-82

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 31.220.10

English Version

Connectors for electronic equipment -
Part 7-82: Detail specification for 8-way, 12 contacts, shielded,
free and fixed connectors, for data transmission with frequencies
up to 2 000 MHz
(IEC 60603-7-82:2016)

Connecteurs pour équipements électroniques - Partie 7-82:
Spécification particulière pour les fiches et les embases
écranées à 8 voies et 12 contacts pour la transmission de
données à des fréquences jusqu'à 2 000 MHz
(IEC 60603-7-82:2016)

Steckverbinder für elektronische Einrichtungen -
Teil 7-82: Bauartspezifikation für geschirmte freie und feste
Steckverbinder, 8polig, 12 Kontakte für
Datenübertragungen bis 2 000 MHz
(IEC 60603-7-82:2016)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

European foreword

The text of document 48B/2497/FDIS, future edition 1 of IEC 60603-7-82, 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 60603-7-82:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-06-29
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60512-2-1	NOTE	Harmonized as EN 60512-2-1.
IEC 60603-7-2	NOTE	Harmonized as EN 60603-7-2.
IEC 60603-7-3	NOTE	Harmonized as EN 60603-7-3.
IEC 60603-7-4	NOTE	Harmonized as EN 60603-7-4.
IEC 60603-7-5	NOTE	Harmonized as EN 60603-7-5.
IEC 60603-7-41	NOTE	Harmonized as EN 60603-7-41
IEC 60603-7-51	NOTE	Harmonized as EN 60603-7-51
IEC 60603-7-71	NOTE	Harmonized as EN 60603-7-71
IEC 60603-7-81	NOTE	Harmonized as EN 60603-7-81

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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 + A1	2008 2011	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 + A1	2008 2011
IEC 60512-27-100	-	Connectors for electronic equipment - Tests and measurements - Part 27-100: Signal integrity tests up to 500 MHz on IEC 60603-7 series connectors - Tests 27a to 27g	EN 60512-27-100	-
IEC 60512-28-100	- ¹⁾	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	-	-
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

1) At draft stage. IEC 60512-28-100 (future ed. 2.0) will replace IEC 60512-28-100:2013, *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*, harmonized as EN 60512-28-100:2013 (not modified).

EN 60603-7-82:2016

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60603-7-7	2010	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	EN 60603-7-7	2010
IEC 61156	series	Multicore and symmetrical pair/quad cables for digital communications	-	-
IEC 62153-4-15	-	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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NORME INTERNATIONALE

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8 voies et 12 contacts pour la transmission de données à des fréquences
jusqu'à 2 000 MHz**





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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Connectors for electronic equipment –
Part 7-82: Detail specification for 8-way, 12 contacts, shielded, free and fixed
connectors, for data transmission with frequencies up to 2 000 MHz**

**Connecteurs pour équipements électroniques –
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jusqu'à 2 000 MHz**

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Figure 1 – Diagram of the interrelation of the documents6

Table 1 – Test group EP 15

INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT –**Part 7-82: Detail specification for 8-way, 12 contacts, shielded,
free and fixed connectors, for data transmission
with frequencies up to 2 000 MHz**

FOREWORD

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International Standard IEC 60603-7-82 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/2497/FDIS	48B/2510/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.

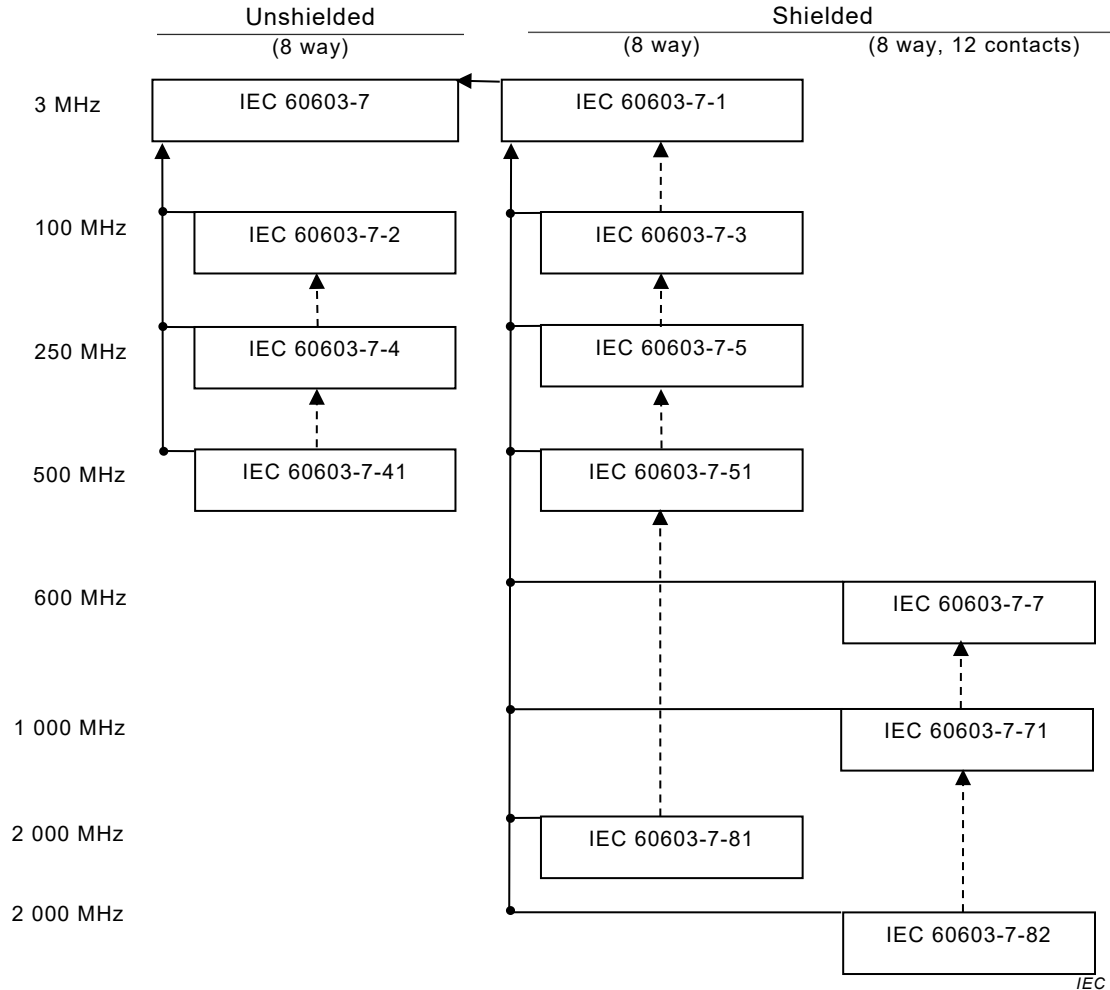
A list of all parts of the IEC 60603 series, under the general title *Connectors for electronic equipment*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC 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.

INTRODUCTION

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. For complete specification regarding a component of a higher number document all lower numbered documents shall be considered as well. The following diagram (Figure 1) shows the interrelation of the documents:



Key

- ▶ Indicates reference for dimensions, mechanical and electrical characteristics, tests and test schedules
- - - - -▶ Indicates reference for transmission performance (backward compatibility)

Figure 1 – Diagram of the interrelation of the documents

CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 7-82: Detail specification for 8-way, 12 contacts, shielded, free and fixed connectors, for data transmission with frequencies up to 2 000 MHz

1 Scope

This part of IEC 60603 covers 8-way, 12 contacts, shielded, free and fixed connectors, references dimensional, mechanical, electrical and environmental characteristics and tests in IEC 60603-7-7, and specifies electrical transmission requirements, including power sum alien (exogenous) crosstalk, for frequencies up to 2 000 MHz.

These connectors are typically used as “category 8.2” connectors in “class II” cabling systems specified in ISO/IEC TR 11801-9901 and specified in ISO/IEC 11801-11.

These connectors are intermateable and interoperable with other IEC 60603-7 series connectors, i.e. as defined in IEC 60603-7-7 and IEC 60603-7-1.

These connectors are backward compatible with other IEC 60603-7 series connectors.

NOTE Transmission performance categories: in this IEC standard, the term “category”, when used in reference to transmission performance, refers to those categories defined by ISO/IEC 11801-1.

2 Normative references

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.

IEC 60512-25-9, *Connectors for electronic equipment – Tests and measurements – Part 25-9: Signal integrity tests – Test 25i: Alien crosstalk*

IEC 60512-26-100:2008, *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*
IEC 60512-26-100:2008/AMD1:2011

IEC 60512-27-100, *Connectors for electronic equipment – Tests and measurements – Part 27-100: Signal integrity tests up to 500 MHz on IEC 60603-7 series connectors – Tests 27a to 27g*

IEC 60512-28-100, *Connectors for electronic equipment – Tests and measurements – Part 28-100: Signal integrity tests for 1 000 MHz and up, for IEC 60603-7 series connectors – Tests 28a to 28g²*

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

¹ Under consideration.

² The tests include frequencies up to 2 000 MHz.

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

IEC 60603-7-7:2010, *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 61156 (all parts), *Multicore and symmetrical pair/quad cables for digital communications*

IEC 62153-4-15, *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*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN