SLOVENSKI STANDARD

SIST EN 61076-3-112:2006

oct 2006

Konektorji za elektronsko opremo – 3-112. del: Pravokotni konektorji – Podrobna specifikacija za pravokotne konektorje s štirimi kontakti za visoko zmogljivo serijsko vodilo za porabniško avdio/video opremo (IEC 61076-3-112:2006)

Connectors for electronic equipment – Part 3-112: Rectangular connectors – Detail specification for rectangular connectors with four contacts for high performance serial bus for consumer audio/video equipment (IEC 61076-3-112:2006)

ICS 31.220.10

Referenčna številka
SIST EN 61076-3-112:2006(en)

EUROPEAN STANDARD

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English version

Connectors for electronic equipment Part 3-112: Rectangular connectors - Detail specification for rectangular connectors with four contacts for high performance serial bus for consumer audio/video equipment

(IEC 61076-3-112:2006)

Connecteurs pour équipements électroniques
Partie 3-112: Connecteurs rectangulaires - Spécification particulière pour connecteurs rectangulaires à quatre contacts pour bus série à haute performance utilisés dans les équipements audio/vidéo grand public
(CEI 61076-3-112:2006)

Steckverbinder für elektronische Einrichtungen
Teil 3-112: Rechteckige Steckverbinder - Bauartspezifikation für rechteckige Steckverbinder mit vier Kontakten für serielle Hochgeschwindigkeitsbusse in Audio- und Videosystemen
(IEC 61076-3-112:2006)

This European Standard was approved by CENELEC on 2006-05-01. 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 members are the national electrotechnical committees of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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

Ref. No. EN 61076-3-112:2006 E

Foreword

The text of document 48B/1620/FDIS, future edition 1 of IEC 61076-3-112, 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 61076-3-112 on 2006-05-01.

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)	2007-02-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2009-05-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61076-3-112:2006 was approved by CENELEC as a European Standard without any modification.

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.

Publication	Year	Title	EN/HD	Year
IEC 60512	Series	Connectors for electronic equipment - Tests and measurements	EN 60512	Series
IEC 60512-1-100	-[1)]	Connectors for electronic equipment - Tests and measurements - Part 1-100: General - Applicable publications	EN 60512-1-100	2006[2)]
IEC 61000-4-1	-[1)]	Electromagnetic compatibility (EMC) - Part 4-1: Testing and measurement techniques - Overview of IEC 61000-4 series	EN 61000-4-1	2000[2)]
IEC 61000-4-2	-[1)]	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	1995[2)]
IEC 61076-1	-[1)]	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006[2)]
IEC 61076-3	1999	Connectors for use in d.c., low-frequency analogue and digital high-speed data applications - Part 3: Rectangular connectors with assessed quality - Sectional specification	EN 61076-3	2000
IEC 62197-1	2006	Connectors for electronic equipment - Quality assessment requirements - Part 1: Generic specification	EN 62197-1	2006

[1)] Undated reference.

[2)] Valid edition at date of issue.

NORME INTERNATIONALE

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Connecteurs pour équipements électroniques –

Partie 3-112:
Connecteurs rectangulaires –
Spécification particulière pour connecteurs rectangulaires à quatre contacts pour bus série à haute performance utilisés dans les équipements audio/vidéo grand public

Connectors for electronic equipment –

Part 3-112:
Rectangular connectors –
Detail specification for rectangular connectors with four contacts for high performance serial bus for consumer audio/video equipment

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 3-112: Rectangular connectors – Detail specification for rectangular connectors with four contacts for high performance serial bus for consumer audio/video equipment

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 61076-3-112 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

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

FDIS	Report on voting
48B/1620/FDIS	48B/1670/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.

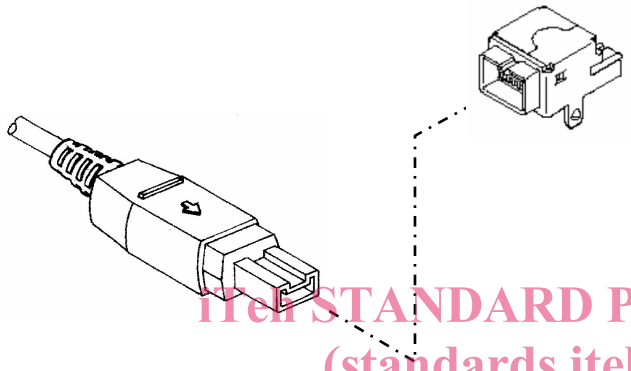
The list of all parts of IEC 61076 series, under the general title *Connectors for electronic equipment* can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the 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
- amended.

CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 3-112: Rectangular connectors – Detail specification for rectangular connectors with four contacts for high performance serial bus for consumer audio/video equipment

IEC SC48B – Connectors Specification available from IEC General secretariat or from the address shown on the inside cover.	IEC 61076-3-112
Connectors in accordance with Generic specification IEC 61076-1	
	Two part connectors for printed boards. The fixed board connector is suitable for mounting on printed boards. The free cable connector is suitable for cable and is over moulded or insulated with moulded covers.
Information on the availability of components qualified to this detail specification is given in the qualified products lists.	

1 General

1.1 Scope

These connectors are designed based on IEEE standard 1394a-2000 and applicable for high performance serial bus used for consumer audio/video equipment. These connectors consist of fixed and free connectors having four contacts.

1.2 Recommended method of mounting

The fixed connector is mounted on the printed circuit board with surface mount solder tag and dip solder tag having board lock.

1.2.1 Number of contacts or contact cavities

The connectors in this detail specification have four contacts.

1.3 Ratings and characteristics

Rated voltage:	10 V a.c./d.c.
Insulation resistance:	100 MΩ minimum
Climatic category:	55/085/4

1.4 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 60512 (all parts), *Connectors for electric equipment – Tests and measurements*

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

IEC 61000-4-1, *Electromagnetic compatibility (EMC) – Part 4-1: Testing and measurement techniques – Overview of IEC 61000-4 series*

IEC 61000-4-2, *Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test*

IEC 61076-1, *Connectors for electronic equipment – Product requirements – Part 1: Generic specification*

IEC 61076-3:1999, *Connectors for use in d.c., low-frequency analogue and digital high-speed data applications – Part 3: Rectangular connectors with assessed quality – Sectional specification*

IEC 62197-1:2006, *Connectors for electronic equipment – Quality assessment requirements – Part 1: Generic specification*

1.5 Marking

The connector and the package shall be marked the following information.

On the connector:

a) mark of origin (manufacturer's name or mark);

b) mark indicating mating direction (see Figure 12).

On the package:

a) mark of origin (manufacturer's name or mark);

b) year and month (or week) of manufacture;

c) IEC type designation (see 1.6) or manufacturer's part number.

If a manufacturer's part number is used, a cross-reference list between the manufacturer's and IEC designations should be included in the catalogue or specification sheet.