
**Konektorji za elektronsko opremo - 3-103. del: Pravokotni konektorji -
Podrobna specifikacija za enoredne konektorje z neločljivimi kontakti za
tračne kable z medkontaktnim razmikom 1,25 mm, ki se uporabljajo za hitri
zaporedni prenos podatkov (HSSDC) (IEC 61076-3-103:2003)**

Connectors for electronic equipment – Part 3-103: Rectangular connectors - Detail
specification for single row connectors with non-removable ribbon cable contacts on
1,25 mm pitch used for high speed serial data (HSSDC) (IEC 61076-3-103:2003)

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English version

Connectors for electronic equipment
Part 3-103: Rectangular connectors –
Detail specification for single row connectors
with non-removable ribbon cable contacts on 1,25 mm pitch
used for high speed serial data (HSSDC)
(IEC 61076-3-103:2003)

Connecteurs pour équipements
électroniques

Partie 3-103: Connecteurs rectangulaires -
Spécification particulière pour
les connecteurs rectangulaires
avec des contacts de câbles à rubans non
amovibles sur une rangée simple
de pas 1,25 mm utilisés avec
des connecteurs de données série
à grande vitesse (HSSDC)
(CEI 61076-3-103:2003)

Steckverbinder für elektronische
Einrichtungen

Teil 3-103: Rechteckige Steckverbinder -
Bauartspezifikation für einreihige
Steckverbinder mit nicht auswechselbaren
Kontakten mit 1,25 mm Teilung für
den Anschluss von Flachleitungen und
Anwendungen in schnellen
Datenübermittlungen (HSSDC)
(IEC 61076-3-103:2003)

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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/1373/FDIS, future edition 1 of IEC 61076-3-103, 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 61076-3-103 on 2004-02-01.

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) 2004-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-02-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61076-3-103:2003 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 60512	Series	Connectors for electronic equipment - Tests and measurements	EN 60512	Series
IEC 60512-1-100	2001	Connectors for electronic equipment - Tests and measurements Part 1-100: General - Applicable publications	EN 60512-1-100	2001
IEC 61076-1	1995	Connectors with assessed quality, for use in d.c., low frequency analogue and in digital high-speed data applications Part 1: Generic specification - Capability approval	EN 61076-1	1995
IEC 61076-3	1999	Part 3: Rectangular connectors with assessed quality - Sectional specification	EN 61076-3	2000
IEC 61076-3-001	1999	Part 3-001: Rectangular connectors with assessed quality - Blank detail specification	EN 61076-3-001	2000
ISO 1302	2002	Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation	EN ISO 1302	2002

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INTERNATIONAL STANDARD

IEC 61076-3-103

First edition
2003-11

Connectors for electronic equipment –

Part 3-103:

Rectangular connectors –

Detail specification for single row connectors

with non-removable ribbon cable contacts

on 1,25 mm pitch used for high speed serial data (HSSDC)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 3-103: Rectangular connectors – Detail specification for single row connectors with non-removable ribbon cable contacts on 1,25 mm pitch used for high speed serial data (HSSDC)

FOREWORD

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International Standard IEC 61076-3-103 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/1373/FDIS	48B/1402/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.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated when a new edition is prepared.

The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this standard may be issued at a later date.

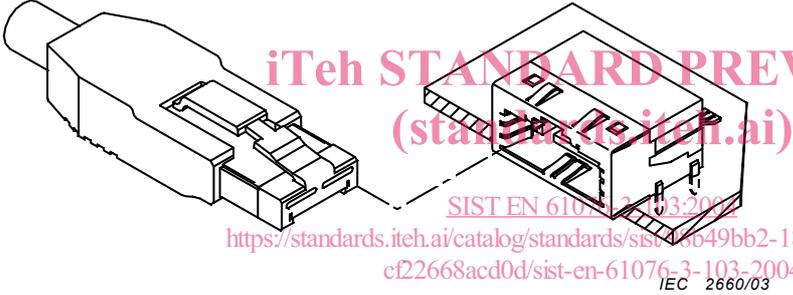
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CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 3-103: Rectangular connectors – Detail specification for single row connectors with non-removable ribbon cable contacts on 1,25 mm pitch used for high speed serial data (HSSDC)

<p>Specification available from: IEC Central Office or from the address shown on the inside cover (electronic components of assessed quality)</p>	<p>IEC 61076-3-103</p>
<p>Electronic components of assessed quality DETAIL SPECIFICATION in accordance with IEC 61076-1:</p>	
<p>See 3.2, 3.3, 3.4 and 3.5 for dimensions</p> 	<p>Two part modular connectors for printed boards and backplanes. This standard is applicable to HSSDC type connectors</p> <p>The connector fixed board connector (receptacle) is suitable for mounting on printed boards and the free cable connector (plug) is suitable for permanent attachment to cable.</p> <p>Performance level(s): 1</p> <p>Assessment levels:</p> <p>Combination of performance levels and assessment levels:</p>
<p>Information on the availability of components qualified to this standard is given in the qualified products list.</p>	

1 General

1.1 Scope

This standard applies to a family of connectors having the following characteristics:

- shielded,
- rectangular-shaped mating interface,
- 1,25 mm pitch spacing of contacts on a single row,
- 8 positions,
- for wire-to-board applications.

All dimensions in this document apply to the unmated finished product after assembly to printed circuit boards or cables.

This standard establishes uniform specifications, testing requirements and quality assessment procedures. It is intended to be used in conjunction with sectional specification IEC 61076-3.

1.2 Recommended method of mounting

Fixed board connector is mounted on the printed circuit board with surface mount solder terminations having board lock or holding fixtures.

1.2.1 Number of contacts or contact cavities

There are 8 positions.

1.3 Ratings and characteristics

Rated voltage:	30 V DC
Current rating:	1 A per contact (positions 2 and 7 (first make – last break) contacts energized in parallel)
Insulation resistance:	100 M Ω minimum
Mechanical operation:	500 cycles
Contact resistance:	signal contacts 35 m Ω maximum initial shield contacts 42 m Ω maximum initial
Climatic category:	–55 °C to +100 °C
Characteristic impedance:	140 Ω – 160 Ω
Near end crosstalk:	30 dB maximum
Transfer impedance:	TBD
Printed board thickness:	1,60 mm \pm 0,15 mm
Contact spacing:	1,25 mm

1.4 Reference documents

IEC 60512 (all parts), *Connectors for electronic equipment – Tests and measurements*

IEC 60512-1-100:2001, *Connectors for electronic equipment – Tests and measurements – Part 1-100: General – Applicable publications*

IEC 61076-1:1995, *Connectors with assessed quality, for use in d.c., low frequency analogue and in digital high speed data applications – 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 61076-3-001:1999, *Connectors for use in d.c., low-frequency analogue and digital high-speed data applications – Part 3-001: Rectangular connectors with assessed quality – Blank detail specification*

ISO 1302:2002, *Geometrical Product Specifications (GPS) – Indication of surface texture in technical product documentation*

1.5 Marking

The marking of the connector and package shall be in accordance with 2.6 of IEC 61076-3.

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