SLOVENSKI STANDARD

SIST EN 61076-2-103:2005

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Konektorji za elektronsko opremo – 2-103. del: Okrogli konektorji – Podrobna specifikacija za serijo večpolnih konektorjev (tip »XLR«) (IEC 61076-2-103:2004)

Connectors for electronic equipment - Part 2-103: Circular connectors - Detail specification for a range of multipole connectors (type "XLR") (IEC 61076-2-103:2004)

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61076-2-103

May 2004

ICS 31.220.10

English version

Connectors for electronic equipment
Part 2-103: Circular connectors –
Detail specification for a range of multipole connectors (type 'XLR')
(IEC 61076-2-103:2004)

Connecteurs pour équipements électroniques
Partie 2-103: Connecteurs circulaires - Spécification particulière pour une gamme de connecteurs multipolaires (type 'XLR')
(CEI 61076-2-103:2004)

Steckverbinder für elektronische Einrichtungen
Teil 2-103: Rundsteckverbinder - Bauartspezifikation für eine Reihe von mehrpoligen Rundsteckverbindern (Typ "XLR")
(IEC 61076-2-103:2004)

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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

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Ref. No. EN 61076-2-103:2004 E

Foreword

The text of document 48B/1413/FDIS, future edition 1 of IEC 61076-2-103, prepared by 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 61076-2-103 on 2004-05-01.

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) 2005-02-01

– latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-05-01

Endorsement notice

The text of the International Standard IEC 61076-2-103:2004 was approved by CENELEC as a European Standard without any modification.

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NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC

61076-2-103

Première édition
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2004-03

Connecteurs pour équipements électroniques –

Partie 2-103:
Connecteurs circulaires –
Spécification particulière pour une gamme de connecteurs multipolaires (type 'XLR')

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Part 2-103:
Circular connectors –
Detail specification for a range of multipole connectors (type 'XLR')

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 2-103: Circular connectors – Detail specification for a range of multipole connectors (type 'XLR')

FOREWORD

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International Standard IEC 61076-2-103 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/1413/FDIS	48B/1432/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 2008. At this date, the publication will be

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

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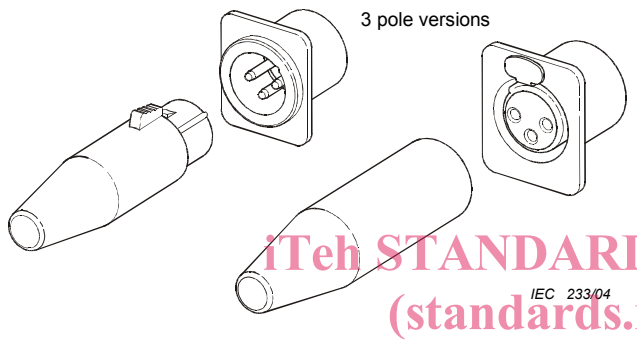
CONNECTORS FOR ELECTRONIC EQUIPMENT –

Part 2-103: Circular connectors – Detail specification for a range of multipole connectors (type 'XLR')

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC SC 48B - Connectors	IEC 61076-2-103
ELECTRONIC COMPONENTS in accordance with IEC 61076-1: Generic specification	Blank detail specification IEC 61076-2-001
	A range of fixed and free circular multi-pole connectors, with common shell and mounting dimensions
	Fixed connectors are available in both panel and printed-board mounting versions. Also, versions are available with metal shells and others with moulded plastic shells
	Performance level(s): [Reserved] Assessment level(s): [Reserved] Combination of performance levels and assessment levels: [Reserved]

Information on the availability of components qualified to this detail specification is given in the qualified products list.

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1 General information

1.1 Scope

This part of IEC 61076 applies to a range of circular multi-pole connectors with or without latching device, having a nominal outer shell diameter of 19 mm, with 3 to 7 contacts (type 'XLR'). Fixed connectors are available in both panel-mounting and printed-board mounting versions.

These connectors are widely used in professional audio applications.

This part of IEC 61076 establishes uniform specifications, type testing requirements and quality assessment procedures for a subfamily of circular connectors. It should be used in conjunction with the applicable sectional specification, see 1.1 of IEC 61076-2.

1.2 Recommended method of mounting

For guidance on the application of connectors in mechanical structures, see IEC 60917-2-2.

Panel-mounted fixed connectors should normally be mounted using screws or bolts rather than rivets. Printed-board mounted connectors shall be mounted in accordance with the manufacturer's instructions. Cables shall be attached to free connectors in accordance with the manufacturer's instructions.

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1.3 Number of contacts or contact cavities

This DS deals with connectors with 3 to 7 contacts.

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1.4 Ratings and characteristics

Rated voltage: 50 V a.c.

Voltage proof: 1 000 V r.m.s.

Current rating at 70 °C: depends on version (see 4.2.3)

Insulation resistance:

initial: 10 GΩ

after damp heat: 500 MΩ

Climatic category: 25/070/04

Contact spacing: see drawings

1.5 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 60352 (all parts), *Solderless connections*

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

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

IEC 60917-2-2, *Modular order for the development of mechanical structures for electronic equipment practices – Part 2: Sectional specification – Interface coordination dimensions for the 25 mm equipment practice – Section 2: Detail specification – Dimensions for subracks, chassis, backplanes, front panels and plus-in units*

IEC 61076-1, *Connectors with assessed quality, for use in d.c., low frequency analogue and digital high speed data applications – Part 1: Generic Specification*

IEC 61076-2, *Connectors for use in d.c., low frequency analogue and digital high speed data applications – Part 2: Circular connectors with assessed quality – Sectional specification*

1.6 Marking

Each connector shall carry the following markings:

– mark of origin (manufacturer's name or mark);
– identification of the contact positions, in accordance with Clause 3;
– IEC type designation (see 1.7) or manufacturer's designation.

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

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