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Standards

Irish Standard
I.S. EN 61076-2-109:2014

Connectors for electronic equipment -
Product requirements - Part 2-109: Circular
connectors - Detail specification for
connectors with M 12 × 1 screw-locking, for
data transmission frequencies up to 500
MHz

I.S. EN 61076-2-109:2014

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NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
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EUROPEAN STANDARD

EN 61076-2-109

NORME EUROPÉENNE

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August 2014

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English Version

**Connectors for electronic equipment - Product requirements -
Part 2-109: Circular connectors - Detail specification for
connectors with M 12 × 1 screw-locking, for data transmission
frequencies up to 500 MHz
(IEC 61076-2-109:2014)**

Connecteurs pour équipements électroniques - Exigences
de produit - Partie 2-109: Connecteurs circulaires -
Spécification particulière relative aux connecteurs avec
verrouillage à vis M 12 × 1, pour les transmissions de
données à des fréquences jusqu'à 500 MHz
(CEI 61076-2-109:2014)

Steckverbinder für elektronische Einrichtungen -
Produktanforderungen - Teil 2-109: Rundsteckverbinder -
Bauartspezifikation für Steckverbinder M 12 x 1 mit
Schraubverriegelung für Datenübertragungen bis 500 MHz
(IEC 61076-2-109:2014)

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Europäisches Komitee für Elektrotechnische Normung

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

Foreword

The text of document 48B/2369/FDIS, future edition 1 of IEC 61076-2-109, 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 approved by CENELEC as EN 61076-2-109:2014.

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) 2015-03-12
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	Series	International Electrotechnical Vocabulary (IEV)	-	-
IEC 60068-1	2013	Environmental testing - Part 1: General and guidance	EN 60068-1	2014
IEC 60068-2-60	1995	Environmental testing - Part 2: Tests - Test Ke: Flowing mixed gas corrosion test	EN 60068-2-60	1996
IEC 60352	Series	Solderless connections	EN 60352	series
IEC 60512	Series	Connectors for electronic equipment - Tests and measurements	EN 60512-1	series
IEC 60512-29-100 ¹⁾	-	Connectors for electronic equipment - Tests and measurements - Part 29-100: Signal integrity tests up to 500 MHz on M12 style connectors - Tests 29a to 29g	EN 60512-29-100 ¹⁾	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 corr. May	1991 1993
A1	1999		A1	2000
A2	2013		A2	2013
IEC 60603-7	2008	Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors	EN 60603-7	2009
A1	2011		A1	2011
IEC 60603-7-1	-	Connectors for electronic equipment - Part 7-1: Detail specification for 8-way, shielded, free and fixed connectors	EN 60603-7-1	-
IEC 60664-1	2007	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	2007

¹⁾ At draft stage.

IEC 60998-2-1 (mod)	2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units	EN 60998-2-1	2004
IEC 60999	Series	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units	EN 60999	Series
IEC 61076-1	-	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	-
IEC 61076-2	2011	Connectors for electronic equipment - Product requirements - Part 2: Sectional specification for circular connectors	EN 61076-2	2011
IEC 61076-2-101	2012	Connectors for electronic equipment - Product requirements - Part 2-101: Circular connectors - Detail specification for M12 connectors with screw-locking	EN 61076-2-101	2012
IEC 61984	2008	Connectors - Safety requirements and tests	EN 61984	2009
ISO 1302	-	Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation	EN ISO 1302	-
ISO/IEC 11801	2002	Information technology - Generic cabling for customer premises	-	-



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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Edition 1.0 2014-05

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données à des fréquences jusqu'à 500 MHz**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –
PRODUCT REQUIREMENTS –**
**Part 2-109: Circular connectors – Detail specification for
connectors with M 12 x 1 screw-locking, for data
transmission frequencies up to 500 MHz**

FOREWORD

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International Standard IEC 61076-2-109 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This first edition of IEC 61076-2-109 cancels and replaces IEC PAS 61076-2-109, published in 2010.

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

FDIS	Report on voting
48B/2369/FDIS	48B/2382/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 61076 series, published under the general title *Connectors for electronic equipment – Product requirements*, 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 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
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INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning connector given in 4.3.2.

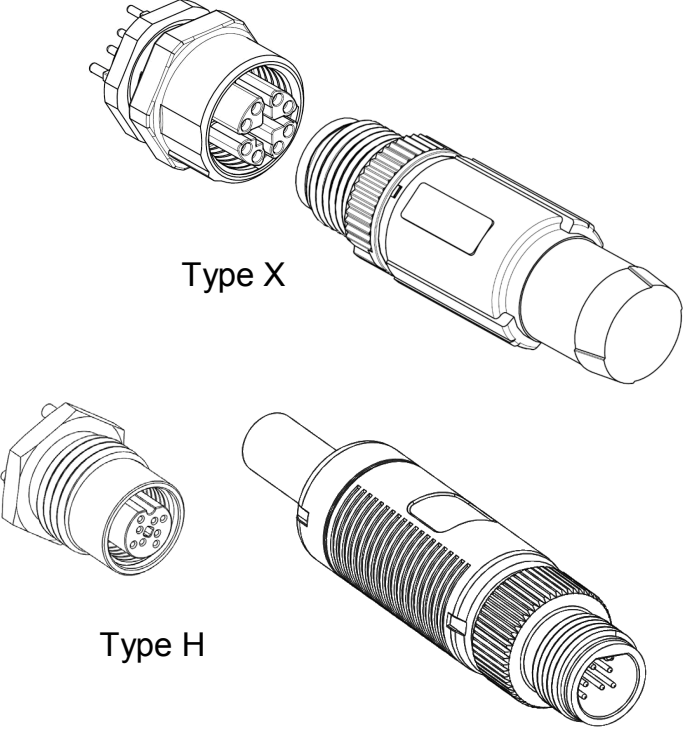
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INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC SC 48B – Connectors	IEC 61076-2-109 Ed. 1.0
ELECTRONIC COMPONENTS in accordance with IEC 61076-1	
 <p data-bbox="416 745 523 779">Type X</p> <p data-bbox="336 1115 443 1149">Type H</p> <p data-bbox="799 1223 938 1245">IEC 1225/14</p>	<p data-bbox="962 481 1394 555">Circular connectors M12 × 1 mm 2 to 8 ways, for data transmission frequencies up to 500 MHz</p> <p data-bbox="962 571 1358 622">Pin and socket connectors with round contact</p> <p data-bbox="962 638 1257 660">Rewireable – Non-rewirable</p> <p data-bbox="962 678 1334 730">Free cable connectors Straight and right angle connectors</p> <p data-bbox="962 745 1142 768">Fixed connectors</p> <p data-bbox="962 786 1139 837">Flange mounting Rear mounting</p> <p data-bbox="962 853 1182 875">Single hole mounting</p>

CONNECTORS FOR ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 2-109: Circular connectors – Detail specification for connectors with M 12 x 1 screw-locking, for data transmission frequencies up to 500 MHz

1 Scope

This part of IEC 61076 describes circular connectors with IP 65/IP 67 degree of protection and suitable for data transmission with frequencies up to 500 MHz. Applications include, but are not limited to, vision systems and data acquisition. These connectors consist of fixed and free connectors, either rewirable or non-rewirable, with M12 x 1 screw-locking. Male connectors have round contacts \varnothing 0,6 mm.

This standard covers two different types of connectors, denominated X and H, with different contact arrangement, not mutually interchangeable, but with common ratings and purposes.

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 60050 (all parts), *International Electrotechnical Vocabulary* (available at <http://www.electropedia.org>)

IEC 60068-1:2013, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-60:1995, *Environmental testing – Part 2: Tests – Test Ke: Flowing mixed gas corrosion test*

IEC 60352 (all parts), *Solderless connections*

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

IEC 60512-29-100: *Connectors for electronic equipment – Tests and measurements – Part 29-100: Signal integrity tests up to 500 MHz on M12 style connectors – Tests 29a to 29g (to be published)*

IEC 60529:1989, *Degrés de protection procurés par les enveloppes (Code IP)*

Amendement 2:2013

Amendement 1:1999

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

Amendment 1:2011

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

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