



SLOVENSKI STANDARD

SIST EN 61076-2-109:2014

01-oktober-2014

Konektorji za elektronsko opremo - Zahteve za izdelek - 2-109. del: Okrogli konektorji - Podrobna specifikacija za konektorje z vijačno zaporo m 12 x 1 za prenos podatkov s frekvencami do 500 MHz (IEC 61076-2-109:2014)

Connectors for electronic equipment - Product requirements - Part 2-109: Circular connectors - Detail specification for connectors with m 12 x 1 screw-locking, for data transmissions with frequencies up to 500 mhz

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Connecteurs pour équipements électroniques - Exigences de produit - Partie 2-109: Connecteurs circulaires - Spécification particulière relative aux connecteurs avec verrouillage à vis m 12 x 1, pour les transmissions de données à des fréquences jusqu'à 500 mhz

Ta slovenski standard je istoveten z: EN 61076-2-109:2014

ICS:

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
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EUROPEAN STANDARD

EN 61076-2-109

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2014

ICS 31.220.10

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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Comité Européen de Normalisation Electrotechnique
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
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-06-12

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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 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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IEC 61076-2-109

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**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**

**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**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**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
- amended.

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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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