

# **SLOVENSKI STANDARD**

## **SIST EN 61076-2-107:2010**

**01-september-2010**

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**Konektorji za elektronsko opremo - Zahteve za izdelek - 2-107. del: Podrobnejša specifikacija za okrogle hibridne konektorje M12 z električnimi in optičnimi kontakti ter vijačno zaporo (IEC 61076-2-107:2010)**

Connectors for electronic equipment - Product requirements - Part 2-107: Detail specification for circular hybrid connectors M12 with electrical and fibre-optic contacts with screw locking (IEC 61076-2-107:2010)

**STANDARD PREVIEW**  
Steckverbinder für elektronische Einrichtungen - Produktanforderungen - Teil 2-107: Bauartspezifikation für hybride Rundsteckverbinder M12 mit elektrischen und LWL-Kontakten und mit Schraubverriegelung (IEC 61076-2-107:2010)

<https://standards.iteh.ai/catalog/standards/sist/1ac8faab-9731-4343-8001-32122010-61076-2-107>  
Connecteurs pour équipements électroniques - Exigences de produit - Partie 2-107: Spécification particulière relative aux connecteurs circulaires hybrides M12 à contacts électriques et à fibres optiques, à verrouillage par vis (CEI 61076-2-107:2010)

**Ta slovenski standard je istoveten z: EN 61076-2-107:2010**

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**ICS:**

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
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**SIST EN 61076-2-107:2010**

**en**

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SIST EN 61076-2-107:2010

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61076-2-107**

June 2010

ICS 31.220.10

English version

**Connectors for electronic equipment -  
Product requirements -  
Part 2-107: Detail specification for circular hybrid connectors M12 with  
electrical and fibre-optic contacts with screw locking  
(IEC 61076-2-107:2010)**

Connecteurs pour équipements  
électroniques -  
Exigences de produit -  
Partie 2-107: Spécification particulière  
relative aux connecteurs circulaires  
hybrides M12 à contacts électriques  
et à fibres optiques, à verrouillage par vis  
(CEI 61076-2-107:2010)

Steckverbinder für elektronische  
Einrichtungen – Produktanforderungen --  
Teil 2-107: Bauartspezifikation für hybride  
Rundsteckverbinder M12 mit elektrischen  
und LWL-Kontakten  
und mit Schraubverriegelung  
(IEC 61076-2-107:2010)

<https://standards.iteh.ai/catalog/standards/sist/1ac8faab-9731-4343-8001-a571759a2907/sist-en-61076-2-107-2010>

This European Standard was approved by CENELEC on 2010-06-01. 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.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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# CENELEC

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of document 48B/2141/FDIS, future edition 1 of IEC 61076-2-107, 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 61076-2-107 on 2010-06-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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) 2011-03-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2013-06-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61076-2-107:2010 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61076-2-001:2001	NOTE Harmonized as EN 61076-2-001:2001 (not modified). a571759a2907/sist-en-61076-2-107-2010
IEC 61076-2-101:2008	NOTE Harmonized as EN 61076-2-101:2008 (not modified).
IEC 61300-2-12:2009	NOTE Harmonized as EN 61300-2-12:2009 (not modified).
IEC 61300-2-17:2003	NOTE Harmonized as EN 61300-2-17:2003 (not modified).
IEC 61300-2-18:2005	NOTE Harmonized as EN 61300-20-18:2005 (not modified).
IEC 61300-2-42:2005	NOTE Harmonized as EN 61300-2-42:2005 (not modified).

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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>
-	-	Connector sets and interconnect components to be used in optical fibre communication systems - Product specifications - Part 7-4: LC-PC simplex terminated on IEC 60793-2 category B1.1 singlemode fibre	EN 50377-7-4	-
IEC 60050-581	2008	International Electrotechnical Vocabulary - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1 + A1	1988 1992	Environmental testing - Part 1: General and guidance	EN 60068-1 - <sup>1)</sup>	1994 -
IEC 60352	Series	Solderless connections	EN 60352	Series
IEC 60512-1-100	-	Connectors for electronic equipment - Tests and measurements - Part 1-100: General - Applicable publications	EN 60512-1-100	-
IEC 60529	2001	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 60664-1	-	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	EN 60664-1	-
IEC 60793-2-40	-	Optical fibres - Part 40: Product specifications - Sectional specification for category A4 multimode fibres	EN 60793-2-40	-
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	-
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

<sup>1)</sup> EN 60068-1 includes A1 to IEC 60068-1 + corr. October .

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60999-1	1999	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included)	EN 60999-1	2000
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006
IEC 61300-2-1	2009	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1	2009
IEC 61300-2-2	2009	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability	EN 61300-2-2 + corr. May	2009 2009
IEC 61300-2-4	1995	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	1997
IEC 61300-2-5	2009	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion	FprEN 61300-2-5	2008
IEC 61300-2-26	2006	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist	EN 61300-2-26	2007
IEC 61300-2-27	1995	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-27: Tests - Dust - Laminar flow	EN 61300-2-27	1997
IEC 61300-3-4	2001	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	2001
IEC 61300-3-6	2008	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	2009
IEC 61300-3-10	2006	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-10: Examinations and measurements - Gauge retention force	EN 61300-3-10	2007
IEC 61300-3-34	2009	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: Examinations and measurements - Attenuation of random mated connectors	EN 61300-3-34	2009

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61753-022-2	-	Fibre optic interconnecting devices and passive components performance standard - Part 022-2: Fibre optic connectors terminated on multimode fibre for category C - Controlled environment	EN 61753-022-2	-
IEC 61754-20	2002	Fibre optic connector interfaces - Part 20: Type LC connector family	EN 61754-20	2002
IEC 61755-2-1	-	Fibre optic connector optical interfaces - Part 2-1: Optical interface standard single mode non-angled physically contacting fibres	EN 61755-2-1	-
IEC 61755-3-1	-	Fibre optic connector optical interfaces - Part 3-1: Optical interface, 2,5 mm and 1,25 mm diameter cylindrical full zirconia PC ferrule, single mode fibre	EN 61755-3-1	-
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	-

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IEC 61076-2-107

Edition 1.0 2010-04

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Connectors for electronic equipment – Product requirements –  
Part 2–107: Detail specification for circular hybrid connectors M12 with  
electrical and fibre-optic contacts with screw locking**

**Connecteurs pour équipements électroniques – Exigences de produit –  
Partie 2–107: Spécification particulière relative aux connecteurs circulaires  
hybrides M12 à contacts électriques et à fibres optiques, à verrouillage par vis**

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## CONTENTS

FOREWORD.....	4
1 General information.....	7
1.1 Scope.....	7
1.2 Normative references .....	7
1.3 Terms and definitions .....	9
1.4 Recommended method of termination .....	9
1.5 Ratings and characteristics .....	9
1.5.1 Electrical contacts .....	9
1.5.2 Optical contacts.....	9
1.6 Marking .....	10
1.7 Safety aspects.....	10
2 Technical information .....	10
2.1 Mounting orientation.....	10
2.2 Survey of styles and variants.....	10
2.2.1 Fixed connectors .....	10
2.2.2 Free connectors .....	12
2.2.3 Adaptor .....	12
3 Dimensions .....	13
3.1 General.....	13
3.2 Interface dimensions .....	14
3.2.1 Pin front view plug connector.....	14
3.3 Engagement (mating) information.....	15
3.4 Gauges for electric contacts .....	16
4 Characteristics .....	16
4.1 Climatic category.....	16
4.2 Electrical characteristics (only electrical contacts).....	17
4.2.1 Rated voltage – Impulse voltage – Pollution degree.....	17
4.2.2 Voltage proof.....	17
4.2.3 Current-carrying capacity.....	17
4.2.4 Contact resistance.....	18
4.2.5 Insulation resistance.....	18
4.3 Optical characteristics (only optical contacts) .....	18
4.3.1 Dimensions for ferrule and end face .....	18
4.3.2 Insertion loss (reference).....	18
4.3.3 Insertion loss (random mate) .....	18
4.3.4 Return loss (random mate) .....	18
4.4 Mechanical.....	19
4.4.1 IP degree of protection .....	19
4.4.2 Mechanical operation .....	19
4.4.3 Insertion and withdrawal forces .....	19
4.4.4 Contact retention of electrical contacts in insert.....	20
4.4.5 Polarizing method.....	20
4.4.6 Vibration (sinusoidal).....	20
5 Test schedule.....	20
5.1 General.....	20
5.1.1 Arrangement for contact resistance measurements.....	21

5.1.2	Arrangement for dynamic stress tests (vibration)	21
5.2	Test schedule	22
5.2.1	Test group P – Preliminary	22
5.2.2	Test group AP – Dynamic/ Climatic	24
5.2.3	Test group BP – Mechanical endurance	28
5.2.4	Test group CP – Electrical load	31
5.2.5	Test group DP – Chemical resistivity	32
5.2.6	Test group EP – Connection method tests	33
	Bibliography	34
	Figure 1 – Fixed connector, electrical female contacts, single hole mounting thread M16 × 1,5, mounting orientation	10
	Figure 2 – Fixed connector, electrical female contacts, for feed through, single hole mounting thread M16 × 1,5	11
	Figure 3 – Free connector, straight version, with locking nut, male contacts	12
	Figure 4 – Adaptor, straight version, without locking nut	13
	Figure 5 – Pin front view plug connector	14
	Figure 6 – Engagement (mating) information	15
	Figure 7 – Gauge dimensions	16
	Figure 8 – Contact resistance arrangement	21
	Figure 9 – Dynamic stress test arrangement A	22
	Figure 10 – Dynamic stress test arrangement B	22
	Table 1 – Styles of fixed connectors	10
	Table 2 – Dimensions for connector style AF	11
	Table 3 – Dimensions for connector style BF	11
	Table 4 – Styles of free connectors	12
	Table 5 – Dimensions for connector style CM	12
	Table 6 – Styles of adaptors	12
	Table 7 – Dimensions for adaptor style DF	13
	Table 8 – Dimensions for front view plug connector	15
	Table 9 – Dimensions for connectors type D in mated position	16
	Table 10 – Gauges	16
	Table 11 – Climatic Category	16
	Table 12 – Rated voltage – Impulse voltage – Pollution degree	17
	Table 13 – Voltage proof	17
	Table 14 – Number of mechanical operations	19
	Table 15 – Insertion and withdrawal forces	20
	Table 16 – Number of test specimens	21
	Table 17 – Test group P	23
	Table 18 – Test group AP	24
	Table 19 – Test group BP	28
	Table 20 – Test group CP	31
	Table 21 – Test group DP	32
	Table 22 – Test group EP	33

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRONIC EQUIPMENT –  
PRODUCT REQUIREMENTS –Part 2–107: Detail specification for circular hybrid connectors M12  
with electrical and fibre-optic contacts with screw locking

## FOREWORD

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International Standard IEC 61076-2-107 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment, in cooperation with subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

IEC 61076-2-107 cancels and replaces IEC/PAS 61076-2-107 issued in 2007.

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

FDIS	Report on voting
48B/2141/FDIS	48B/2181/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.

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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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