

SLOVENSKI STANDARD SIST EN IEC 61076-2-012:2020

01-november-2020

Konektorji za električno in elektronsko opremo - Zahteve za izdelek - 2-012. del: Okrogli konektorji - Podrobna specifikacija za konektorje z notranjim potisnim zaklepanjem na podlagi vmesnikov M12 v skladu z IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 in IEC 61076-2-113 (IEC 61076-2-012:2020)

Connectors for electrical and electronic equipment - Product Requirements - Part 2-012: Circular connectors - Detail specification for connectors with inner push-pull locking based on M12 connector interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 and IEC 61076-2-113 (IEC 61076-2-012:2020).

(standards.iteh.ai)

Steckverbinder für elektrische und elektronische Einrichtungen - Produktanforderungen – Teil 2-012: Rundsteckverbinder – Bauartspezifikation für Steckverbinder mit innerer Push-pull-Verriegelung auf Basis Steckverbindern mit Schraubverriegelungen M12 nach IEC 61076-101, IEC 61076-109, IEC 61076-111 und IEC 61076-113 (IEC 61076-2-012:2020)

Connecteurs pour équipements électriques et électroniques - Exigences de produit - Partie 2-012 : Connecteurs circulaires - Spécification particulière relative aux connecteurs avec verrouillage interne de type pousser-tirer fondée sur les interfaces de connecteur M12 conformément à l'IEC 61076-2-101, l'IEC 61076-2-109, l'IEC 61076-2-111 et IEC 61076 -2-113 (IEC 61076-2-012:2020)

Ta slovenski standard je istoveten z: EN IEC 61076-2-012:2020

ICS:

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

Connectors

SIST EN IEC 61076-2-012:2020

en

SIST EN IEC 61076-2-012:2020

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 61076-2-012:2020

https://standards.iteh.ai/catalog/standards/sist/5947f189-64bf-406b-8950-89143bb56545/sist-en-iec-61076-2-012-2020

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM EN IEC 61076-2-012

September 2020

ICS 31.220.10

English Version

Connectors for electrical and electronic equipment - Product Requirements - Part 2-012: Circular connectors - Detail specification for connectors with inner push-pull locking based on M12 connector interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 and IEC 61076-2-113 (IEC 61076-2-012:2020)

Connecteurs pour équipements électriques et électroniques - Exigences de produit - Partie 2-012 : Connecteurs circulaires - Spécification particulière relative aux connecteurs avec verrouillage interne de type pousser-tirer fondée sur les interfaces de connecteur M12 conformément à l'IEC 61076-2-101, l'IEC 61076-2-109, l'IEC 61076-2-111

Steckverbinder für elektrische und elektronische Einrichtungen - Produktanforderungen - Teil 2-012: Rundsteckverbinder - Bauartspezifikation für Steckverbinder mit innerer Push-pull-Verriegelung auf Basis Steckverbindern mit Schraubverriegelungen M12 nach IEC 61076-101, IEC 61076-109, IEC 61076-111 und IEC

61076-113 (IEC 61076-2-012:2020)

et l'IEC 61076-2-113 STANDARD PRE (IEC 61076-2-012:2020)

(standards.iteh.ai)

This European Standard was approved by CENELEC on 2020-08-31. 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. https://standards.iteh.ai/catalog/standards/sist/5947f189-64bf-406b-8950-

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61076-2-012:2020 (E)

European foreword

The text of document 48B/2813/FDIS, future edition 1 of IEC 61076-2-012, prepared by SC 48B "Electrical connectors" of IEC/TC 48 "Electrical connectors and mechanical structures for electrical and electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61076-2-012:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2021-05-31
 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2023-08-31 document have to be withdrawn

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

Endorsement notice

The text of the International Standard IEC 61076-2-012:2020 was approved by CENELEC as a European Standard without any modification.

(standards.iteh.ai)

SIST EN IEC 61076-2-012:2020 https://standards.iteh.ai/catalog/standards/sist/5947f189-64bf-406b-8950-89143bb56545/sist-en-iec-61076-2-012-2020

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where 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>	EN/HD	<u>Year</u>
IEC 60050-581	2008	International Electrotechnical Vocabulary Part 581: Electromechanical componen for electronic equipment		-
IEC 60068-1	- iT	Environmental testing - Part 1: Gener and guidance	alEN 60068-1	-
IEC 60512-2-1	https://sta	Connectors for Defectionic Cequipment Tests and measurements - Part 2- Electrical continuity and contact resistance tests - Test 2a: Contact resistance Millivolt level method	1: ce -406b-8950-	-
IEC 60512-3-1	-	Connectors for electronic equipment Tests and measurements - Part 3- Insulation tests - Test 3a: Insulation resistance	-EN 60512-3-1 1:	-
IEC 60512-4-1	-	Connectors for electronic equipment Tests and measurements - Part 4- Voltage stress tests - Test 4a: Voltage proof	1:	-
IEC 60512-5-1	-	Connectors for electronic equipment Tests and measurements - Part 5-Current-carrying capacity tests - Test 5 Temperature rise	1:	-
IEC 60512-6-3	-	Connectors for electronic equipment Tests and measurements - Part 6- Dynamic stress tests - Test 6c: Shock		-
IEC 60512-6-4	-	Connectors for electronic equipment Tests and measurements - Part 6- Dynamic stress tests - Test 6d: Vibratio (sinusoidal)	4:	-
IEC 60512-9-1	-	Connectors for electronic equipment Tests and measurements - Part 9- Endurance tests - Test 9a: Mechanic operation	1:	-

EN IEC 61076-2-012:2020 (E)

IEC 60512-13-1	-	Connectors for electronic equipment -EN 60512-13-1 Tests and measurements - Part 13-1: Mechanical operation tests - Test 13a: Engaging and separating forces	-
IEC 60512-13-2	-	Connectors for electronic equipment -EN 60512-13-2 Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces	-
IEC 60512-13-5	-	Connectors for electronic equipment -EN 60512-13-5 Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method	-
IEC 60512-15-6	-	Connectors for electronic equipment -EN 60512-15-6 Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices	-
IEC 60529	1989	Degrees of protection provided byEN 60529 enclosures (IP Code)	1991
-	-	+ corrigendum May	1993
+ A1	1999	+ A1	2000
+ A2	2013	+ A2	2013
IEC 60664-1	- iT	einsulation coordination for equipmentEN IEC 60664-1 within low-voltage supply systems - Part 1: Principles, requirements and tests	-
IEC 60998-2- (mod)		Connecting devices for low-voltage circuitsEN 60998-2-1 for household and similar purposes - Part an2+11. Particular requirements for connecting 6b-8950-devices as separate centities with screw-type clamping units	2004
IEC 61076-1	2006	Connectors for electronic equipment -EN 61076-1 Product requirements - Part 1: Generic specification	2006
		specification	
IEC 61076-2-010	-	Connectors for electrical and electronic-equipment - Product requirements - Part 2-010: Circular connectors - Detail specification for push pull connectors with outer locking mechanism, based on mating interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 and IEC 61076-2-113	-
IEC 61076-2-010	2012	Connectors for electrical and electronic-equipment - Product requirements - Part 2-010: Circular connectors - Detail specification for push pull connectors with outer locking mechanism, based on mating interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 and IEC 61076-2-113	- 2012

EN IEC 61076-2-012:2020 (E)

IEC 61076-2-111	2017	Connectors for electrical and electronicEN IEC 61076-2-2018 equipment - Product requirements - Part 2-111 111: Circular connectors - Detail specification for power connectors with M12 screw-locking
IEC 61076-2-113	2017	Connectors for electronic equipment -EN 61076-2-113 2017 Product requirements - Part 2-113: Circular connectors - Detail specification for connectors with M12 screw locking with power and signal contacts for data transmission with frequency up to 100 MHz
IEC 61984	-	Connectors - Safety requirements and EN 61984 - tests

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 61076-2-012:2020 https://standards.iteh.ai/catalog/standards/sist/5947f189-64bf-406b-8950-89143bb56545/sist-en-iec-61076-2-012-2020 SIST EN IEC 61076-2-012:2020

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 61076-2-012:2020

https://standards.iteh.ai/catalog/standards/sist/5947f189-64bf-406b-8950-89143bb56545/sist-en-iec-61076-2-012-2020



IEC 61076-2-012

Edition 1.0 2020-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Connectors for electrical and electronic equipment - Product requirements - Part 2-012: Circular connectors - Detail specification for connectors with inner push-pull locking based on M12 connector interfaces according to IEC 61076-2-101, IEC 61076-2-113

https://standards.iteh.ai/catalog/standards/sist/5947f189-64bf-406b-8950-

Connecteurs pour équipements électriques et électroniques – Exigences de produit –

Partie 2-012: Connecteurs circulaires – Spécification particulière relative aux connecteurs avec verrouillage interne de type pousser-tirer fondée sur les interfaces de connecteur M12 conformément à l'IEC 61076-2-101, l'IEC 61076-2-111 et l'IEC 61076-2-113

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 31.220.10 ISBN 978-2-8322-8643-2

Warning! Make sure that you obtained this publication from an authorized distributor.

Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

- 2 - IEC 61076-2-012:2020 © IEC 2020

CONTENTS

H	DREWORD.		7
1	Scope		10
2	Normativ	e references	10
3	Terms an	nd definitions	12
4		l information	
•		stems of levels	
	4.1 3ys	Performance levels	
	4.1.2	Compatibility levels, according to IEC 61076-1	
		ssification into climatic categories	
		ntact terminations	
		illable connector codings	
		ings	
		rking	
	4.7 Saf	ety aspects	15
5	Dimensio	nal information	15
	5.1 Ger	neral	15
	5.2 Sur	vey of styles and variants	15
	5.2.1	General	15
	5.2.2	General TANDARD PREVIEW Fixed connectors	15
	5.2.3	Free connectors (standards iteh.ai)	21
	5.3 Inte	erface dimensions	
	5.3.1	Push-pull housing .SIST.EN.IEC.61076-2-012:2020	
	5.3.2	A-coding/standards.iteh.ai/catalog/standards/sist/5947f189-64bf-406b-8950-	38
	5.3.3	B-coding 89143bb56545/sist-en-iec-61076-2-012-2020	39
	5.3.4	C-coding	40
	5.3.5	D-coding	41
	5.3.6	P-coding	42
	5.3.7	H-coding	
	5.3.8	X-coding	44
	5.3.9	K-coding	
	5.3.10	L-coding	46
	5.3.11	M-coding	
	5.3.12	S-coding	
	5.3.13	T-coding	
	5.3.14	Type 1-coding	
	5.3.15	Type 2-coding	
	5.3.16	Type 3-coding	
	5.3.17	Type 4-coding	
_		uges – Sizing gauges and retention force gauges	
6		ristics	
		ssification into climatic category	
		ctrical characteristics	
	6.2.1	Voltage proof	
	6.2.2	Rated voltage – Rated impulse voltage – Pollution degree	
	6.2.3	Current-carrying capacity	
	6.2.4	Contact resistance	55

6.2.5	Insulation resistance	55
6.2.6	Transmission performance	55
6.3 Med	hanical characteristics	55
6.3.1	Mating Interface	
6.3.2	Push-pull locking mechanism	56
6.4 Oth	er characteristics	57
6.4.1	Vibration (sinusoidal)	57
6.4.2	Shock	
6.4.3	Degree of protection provided by enclosures (IP code)	
7 Test sche	dule	57
7.1 Gen	eral	57
	t schedule	
7.2.1	Test group P – Preliminary	
7.2.2	Test group AP – Dynamic/Climatic	
7.2.3	Test group BP – Mechanical endurance	
7.2.4	Test group CP – Electrical load	
7.2.5	Test group DP – Chemical resistivity	
7.2.6	Test group EP – Connection method tests	
7.2.7	Test group FP – Electrical transmission requirements	
Annex A (norm	native) Inner diameter of the male push-pull connector body iTeh STANDARD PREVIEW	60
and screw lock	le EF_M12_PPI – Fixed connector female contacts, with inner push-pull king, mounting with thread M12 × 1, with wire/cable ends, single hole ad M16 × 1,5	16
Figure 2 – Sty and screw lock	SIST EN IEC 61076-2-012:2020 le FF _H M12:2RR/ds iFixed connector female contacts 4 with inner push-pull king, mounting with thread M12:xid. 6 with wire/cable ends, single hole and M20 × 1,5	
push-pull and	le GF_M12_PPI – Fixed connector, female contacts, with inner screw locking, mounting with thread M12 × 1, with wire/cable ends, unting thread M16 × 1,5, mounting orientation	18
and screw lock	le HF_M12_PPI – Fixed connector, female contacts, with inner push-pull king, mounting with thread M12 × 1, with wire/cable ends, single hole ad M20 × 1,5, mounting orientation	19
and screw lock	le IF_M12_PPI – Fixed connector, female contacts, with inner push-pull king, mounting with thread M12 × 1, with wire/cable ends, single hole ad M17 × 1,0, rear orientation	20
	le JM_PPI – Rewirable connector, male contacts, straight version, with I locking	22
	le KM_PPI – Rewirable connector, male contacts, right-angled version, h-pull locking	23
	le LM_PPI – Non-rewirable connector, male contacts, straight version, h-pull locking	24
•	le MM_PPI – Non-rewirable connector, male contacts, right-angled nner push-pull locking	24
-	yle NM_PPI – Non-rewirable connector, male contacts, right angled , with inner push-pull locking	25
	yle JF_M12_PPI – Rewireable connector, with female contacts, straight nner push-pull and screw locking	26
	yle KF_M12_PPI – Rewireable connector, with female contacts, ersion, with inner push-pull and screw locking	26

Figure 13 – Style LF_M12_PPI – Non-rewireable connector, with female contacts, straight version, with inner push-pull and screw locking	27
Figure 14 – Style MF_M12_PPI – Non-rewireable connector, with female contacts, right-angled version, with inner push-pull and screw locking	28
Figure 15 – Style NF_M12_PPI – Non-rewirable connector, female contacts, right angled higher version, with inner push-pull and screw locking	29
Figure 16 – Style JF_PPI_PPO – Rewireable connector, with female contacts, straight version, with inner and outer push-pull locking	30
Figure 17 – Style KF_PPI_PPO – Rewireable connector, with female contacts, right-angled version, with inner and outer push-pull locking	30
Figure 18 – Style LF_PPI_PPO – Non-rewireable connector, with female contacts, straight version, with inner and outer push-pull locking	31
Figure 19 – Style MF_PPI_PPO – Non-rewireable connector, with female contacts, right-angled version, with inner and outer push-pull locking	32
Figure 20 – Style NF_PPI_PPO – Non-rewirable connector, female contacts, right angled higher version, with inner and outer push-pull locking	33
Figure 21 – Front view of the female side of the push-pull housing using the example of an A-coded connector	. 34
Figure 22 – Side view of the female side of the push-pull housing using the example of an A-coded connector	35
Figure 23 – Front view of the male side of the push-pull housing using the example of a D-coded connector	37
Figure 24 – Side view of the male side of the push-pull housing using the example of a D-coded connector	37
Figure 25 – Front view of the female side of the push pull housing for A-coding	38
Figure 26 – Side view of the female side of the push-pull housing for A-coding	
Figure 27 – Front view of the female side of the push-pull housing for B-coding	39
Figure 28 – Side view of the female side of the push-pull housing for B-coding	40
Figure 29 – Front view of the female side of the push-pull housing for C-coding	40
Figure 30 – Side view of the female side of the push-pull housing for C-coding	41
Figure 31 – Front view of the female side of the push-pull housing for D-coding	41
Figure 32 – Side view of the female side of the push-pull housing for D-coding	42
Figure 33 – Front view of the female side of the push-pull housing for P-coding	42
Figure 34 – Side view of the female side of the push-pull housing for P-coding	43
Figure 35 – Front view of the female side of the push-pull housing for H-coding	43
Figure 36 – Side view of the female side of the push-pull housing for H-coding	44
Figure 37 – Front view of the female side of the push-pull housing for X-coding	44
Figure 38 – Side view of the female side of the push-pull housing for X-coding	
Figure 39 – Front view of the female side of the push-pull housing for K-coding	45
Figure 40 – Side view of the female side of the push-pull housing for K-coding	
Figure 41 – Front view of the female side of the push-pull housing for L-coding	
Figure 42 – Side view of the female side of the push-pull housing for L-coding	
Figure 43 – Front view of the female side of the push-pull housing for M-coding	
Figure 44 – Side view of the female side of the push-pull housing for M-coding	
Figure 45 – Front view of the female side of the push-pull housing for S-coding	

Figure 46 – Side view of the female side of the push-pull housing for S-coding......49

Figure 47 – Front view of the female side of the push-pull housing for 1-coding	49
Figure 48 –Side view of the female side of the push-pull housing for T-coding	50
Figure 49 – Front view of the female side of the push-pull housing for Type 1	50
Figure 50 - Side view of the female side of the push-pull housing for Type 1	51
Figure 51 – Front view of the female side of the push-pull housing for Type 2	51
Figure 52 – Side view of the female side of the push-pull housing for Type 2	52
Figure 53 – Front view of the female side of the push-pull housing for Type 3	52
Figure 54 – Side view of the female side of the push-pull housing for Type 3	53
Figure 55 – Front view of the female side of the push-pull housing for Type 4	53
Figure 56 – Side view of the female side of the push-pull housing for Type 4	54
Figure A.1 – Inner diameter of the free male connector body	60
Table 1 – Available connector codings	
Table 2 – Styles of fixed connectors	
Table 3 – Dimensions of style EF_M12_PPI, Figure 1	
Table 4 – Dimensions of style FF_M12_PPI, Figure 2	
Table 5 – Dimensions of style GF_M12_PPI, Figure 3	
Table 6 – Dimensions of style HF_M12_PPI, Figure 4 Table 7 – Dimensions of style IF_M12_PPI, Figure 5	19
Table 7 – Dimensions of style IF_M12_PPI, Figure 5	20
Table 8 – Styles of free connectors and ards.iteh.ai)	
Table 9 – Dimensions of style JM_PPI, Figure 6	22
Table 9 – Dimensions of style JM_PPI, Figure 6	23
Table 11 – Dimensions of style IMMbPPH5Figure 8-61076-2-012-2020.	24
Table 12 – Dimensions of style MM_PPI, Figure 9	25
Table 13 – Dimensions of style NM_PPI, Figure 10	25
Table 14 – Dimensions of style JF_M12_PPI, Figure 11	26
Table 15 – Dimensions of style KF_M12_PPI, Figure 12	27
Table 16 – Dimensions of style LF_M12_PPI, Figure 13	27
Table 17 – Dimensions of style MF_M12_PPI, Figure 14	28
Table 18 – Dimensions of style NF_M12_PPI, Figure 15	29
Table 19 – Dimensions of style JF_PPI_PPO, Figure 16	30
Table 20 – Dimensions of style KF_PPI_PPO, Figure 17	31
Table 21 – Dimensions of style LF_PPI_PPO, Figure 18	31
Table 22 – Dimensions of style MF_PPI_PPO, Figure 19	32
Table 23 – Dimensions of style NF_PPI_PPO, Figure 20	33
Table 24 – Dimensions of the push-pull housing (female side)	36
Table 25 – Dimensions of the push-pull housing (male side)	38
Table 26 – Dimensions of the push-pull housing specific to A-coding	39
Table 27 – Dimensions of the push-pull housing specific to B-coding	40
Table 28 – Dimensions of the push-pull housing specific to C-coding	41
Table 29 – Dimensions of the push-pull housing specific to D-coding	
Table 30 – Dimensions of the push-pull housing specific to P-coding	
Table 31 – Dimensions of the push-pull housing specific to H-coding	

- 6 - IEC 61076-2-012:2020 © IEC 2020

Table 32 – Dimensions of the push-pull housing specific to X-coding	45
Table 33 – Dimensions of the push-pull housing specific to K-coding	46
Table 34 – Dimensions of the push-pull housing specific to L-coding	47
Table 35 – Dimensions of the push-pull housing specific to M-coding	48
Table 36 – Dimensions of the push-pull housing specific to S-coding	49
Table 37 – Dimensions of the push-pull housing specific to T-coding	50
Table 38 – Dimensions of the push-pull housing specific to Type 1	51
Table 39 – Dimensions of the push-pull housing specific to Type 2	52
Table 40 – Dimensions of the push-pull housing specific to Type 3	53
Table 41 – Dimensions of the push-pull housing specific to Type 4	54
Table 42 – Insertion and withdrawal forces for the locking mechanism	57
Table 43 – Number of test specimens	58
Table 44 – Test group BP	59
Table A.1 – Inner diameter of the body of the free male connector, dimension X	60

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 61076-2-012:2020 https://standards.iteh.ai/catalog/standards/sist/5947f189-64bf-406b-8950-89143bb56545/sist-en-iec-61076-2-012-2020

INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –
PRODUCT REQUIREMENTS –

Part 2-012: Circular connectors – Detail specification for connectors with inner push-pull locking based on M12 connector interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 and IEC 61076-2-113

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.

 SIST EN IEC 61076-2-012:2020
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their (national land regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61076-2-012 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
48B/2813/FDIS	48B/2831/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.