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**Konektorji za električno in elektronsko opremo - Zahteve za izdelek - 2-010. del: Okrogli konektorji - Podrobna specifikacija za konektorje z zunanjim ali notranjim zaklepnim mehanizmom na osnovi vmesnikov v skladu s standardi IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 in IEC 61076-2-113 (IEC 61076-2-010:2021)**

Connectors for electrical and electronic equipment - Product requirements - Part 2-010: Circular connectors - Detail specification for connectors with outer or inner push-pull 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 61076-2-010:2021)

Steckverbinder für elektrische und elektronische Einrichtungen – Produktanforderungen - Teil 2-010: Rundsteckverbinder– Bauartspezifikation für Push-pull-Steckverbinder mit äußerem Verriegelungsmechanismus, basierend auf Kontaktschnittstellen nach IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 und IEC 61076-2-113 (IEC 61076-2-010:2021)

Connecteurs pour équipements électriques et électroniques - Exigences de produit - Partie 2-010: Connecteurs circulaires - Spécification particulière relative aux connecteurs avec mécanisme de verrouillage de type pousser-tirer externe ou interne, basés sur des interfaces d'accouplement conformes à l'IEC 61076-2-101, l'IEC 61076-2-109, l'IEC 61076-2-111 et l'IEC 61076-2-113 (IEC 61076-2-010:2021)

**Ta slovenski standard je istoveten z: EN IEC 61076-2-010:2021**

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**ICS:**

31.220.10	Vtiči in vtičnice, konektorji	Plug-and-socket devices. Connectors
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**SIST EN IEC 61076-2-010:2021** en

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EUROPEAN STANDARD

EN IEC 61076-2-010

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2021

ICS 31.220.10

English Version

Connectors for electrical and electronic equipment - Product requirements - Part 2-010: Circular connectors - Detail specification for connectors with outer or inner push-pull 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 61076-2-010:2021)

Connecteurs pour équipements électriques et électroniques  
- Exigences de produit - Partie 2-010: Connecteurs  
circulaires - Spécification particulière relative aux  
connecteurs avec mécanisme de verrouillage de type  
pousser-tirer externe ou interne, basés sur des interfaces  
d'accouplement conformes à l'IEC 61076-2-101, l'IEC  
61076-2-109, l'IEC 61076-2-111 et l'IEC 61076-2-113  
(IEC 61076-2-010:2021)

Steckverbinder für elektrische und elektronische  
Einrichtungen - Produktanforderungen - Teil 2-010:  
Rundsteckverbinder- Bauartspezifikation für Push-pull-  
Steckverbinder mit äußerem Verriegelungsmechanismus,  
basierend auf Kontaktschnittstellen nach IEC 61076-2-101,  
IEC 61076-2-109, IEC 61076-2-111 und IEC 61076-2-113  
(IEC 61076-2-010:2021)

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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 61076-2-010:2021 (E)****European foreword**

The text of document 48B/2876/FDIS, future edition 1 of IEC 61076-2-010, 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 61076-2-010:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-04-01 level by publication of an identical national standard or by endorsement
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## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-581	2008	International Electrotechnical Vocabulary -- Part 581: Electromechanical components for electronic equipment		-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60512-1	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 1: Generic specification	EN IEC 60512-1	-
IEC 60512-2-1	-	Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests - Test 2a: Contact resistance - Millivolt level method	EN 60512-2-1	-
IEC 60512-3-1	-	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests - Test 3a: Insulation resistance	EN 60512-3-1	-
IEC 60512-4-1	-	Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof	EN 60512-4-1	-
IEC 60512-5-1	-	Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests - Test 5a: Temperature rise	EN 60512-5-1	-
IEC 60512-6-3	-	Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c: Shock	EN 60512-6-3	-
IEC 60512-6-4	-	Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests - Test 6d: Vibration (sinusoidal)	EN 60512-6-4	-

## EN IEC 61076-2-010:2021 (E)

IEC 60512-9-1	-	Connectors for electronic equipment -EN 60512-9-1 Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation	-
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 by enclosures (IP Code)	1991
-	-	<b>iTeh STANDARD PREVIEW</b> <b>(standards.iteh.ai)</b>	+ corrigendum May 1993
+ A1	1999		+ A1 2000
+ A2	2013		+ A2 2013
IEC 60664-1	-	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1 -
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 61076-1	2006	Connectors for electronic equipment -EN 61076-1 Product requirements - Part 1: Generic specification	2006
+ A1	2019		+ A1 2019
IEC 61076-2-012	-	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	EN IEC 61076-2-012 -
IEC 61076-2-101	2012	Connectors for electronic equipment -EN 61076-2-101 Product requirements - Part 2-101: Circular connectors - Detail specification for M12 connectors with screw-locking	2012

IEC 61076-2-109	2014	Connectors for electronic equipment -EN 61076-2-109	2014
		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 61076-2-111	2017	Connectors for electrical and electronicEN IEC 61076-2-	2018
		equipment - Product requirements - Part111 2-111: 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 andEN 61984	-
		tests	

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IEC 61076-2-010

Edition 1.0 2021-05

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Connectors for electrical and electronic equipment – Product requirements – Part 2-010: Circular connectors – Detail specification for connectors with outer or inner push-pull 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**

<https://standards.iteh.ai/catalog/standards/sist/db2ddf93-7b7a-472b-895e-781616e10976/iec-61076-2-010-2021>

**Connecteurs pour équipements électriques et électroniques – Exigences de produit – Partie 2-010: Connecteurs circulaires – Spécification particulière relative aux connecteurs avec mécanisme de verrouillage de type pousser-tirer externe ou interne, basés sur des interfaces d'accouplement conformes à l'IEC 61076-2-101, l'IEC 61076-2-109, l'IEC 61076-2-111 et l'IEC 61076-2-113**

INTERNATIONAL  
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INTERNATIONALE

ICS 31.220.10

ISBN 978-2-8322-9812-1

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRICAL AND ELECTRONIC EQUIPMENT –  
PRODUCT REQUIREMENTS –****Part 2-010: Circular connectors – Detail specification for connectors  
with outer or inner push-pull 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**

## 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.
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International Standard IEC 61076-2-010 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/2876/FDIS	48B/2887/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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- replaced by a revised edition, or
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