

# SLOVENSKI STANDARD

## SIST EN IEC 61076-2-111:2026

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Nadomešča:

SIST EN IEC 61076-2-111:2018

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**Konektorji za električno in elektronsko opremo - Zahteve za izdelek - 2-111. del: Okrogli konektorji - Podrobna specifikacija za močnostne konektorje z vijaknim zaklepanjem M12 (IEC 61076-2-111:2025)**

Connectors for electrical and electronic equipment - Product requirements - Part 2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking (IEC 61076-2-111:2025)

Steckverbinder für elektrische und elektronische Einrichtungen – Produkthanforderungen – Teil 2-111: Rundsteckverbinder – Bauartspezifikation für Leistungs-Steckverbinder mit Schraubverriegelung M12 (IEC 61076-2-111:2025)

Connecteurs pour équipements électriques et électroniques - Exigences de produit - Partie 2-111: Connecteurs circulaires - Spécification particulière pour les connecteurs d'alimentation à vis M12 (IEC 61076-2-111:2025)

**Ta slovenski standard je istoveten z: EN IEC 61076-2-111:2026**

**ICS:**

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

**SIST EN IEC 61076-2-111:2026**      en

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN IEC 61076-2-111**

January 2026

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Supersedes EN IEC 61076-2-111:2018

English Version

**Connectors for electrical and electronic equipment - Product requirements - Part 2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking (IEC 61076-2-111:2025)**

Connecteurs pour équipements électriques et électroniques  
- Exigences de produit - Partie 2-111: Connecteurs  
circulaires - Spécification particulière pour les connecteurs  
d'alimentation à vis M12  
(IEC 61076-2-111:2025)

Steckverbinder für elektrische und elektronische  
Einrichtungen - Produktanforderungen - Teil 2-111:  
Rundsteckverbinder - Bauartspezifikation für Leistungs-  
Steckverbinder mit Schraubverriegelung M12  
(IEC 61076-2-111:2025)

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Ref. No. EN IEC 61076-2-111:2026 E

**EN IEC 61076-2-111:2026 (E)****European foreword**

The text of document 48B/3169/FDIS, future edition 2 of IEC 61076-2-111, 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 61076-2-111:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-01-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-01-31 document have to be withdrawn

This document supersedes EN IEC 61076-2-111:2018 and all of its amendments and corrigenda (if any).

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# Sample Document

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The text of the International Standard IEC 61076-2-111:2025 was approved by CENELEC as a European Standard without any modification.

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

IEC 60998-2-1	NOTE	Approved as EN 60998-2-1
IEC 61076-2	NOTE	Approved as EN 61076-2
IEC 61076-2-010	NOTE	Approved as EN IEC 61076-2-010
IEC 61076-2-109	NOTE	Approved as EN 61076-2-109
IEC 61076-2-012	NOTE	Approved as EN IEC 61076-2-012
IEC 61076-2-109	NOTE	Approved as EN 61076-2-109
IEC 61076-2-101	NOTE	Approved as EN IEC 61076-2-101
IEC 61076-2-107	NOTE	Approved as EN 61076-2-107
IEC 61076-2-109	NOTE	Approved as EN 61076-2-109
IEC 61076-2-113	NOTE	Approved as EN 61076-2-113
ISO 11469	NOTE	Approved as EN ISO 11469

## 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.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-581	-	International Electrotechnical Vocabulary - Part 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60068-2-20	-	Environmental testing - Part 2-20: Tests - Test Ta and Tb: Test methods for solderability and resistance to soldering heat of devices with leads	EN IEC 60068-2-20	-
IEC 60068-2-60	-	Environmental testing - Part 2-60: Tests - Test Ke: Flowing mixed gas corrosion test	EN 60068-2-60	-
IEC 60352-2	-	Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance	EN IEC 60352-2	-
IEC 60352-3	-	Solderless connections - Part 3: Accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance	EN IEC 60352-3	-
IEC 60352-4	-	Solderless connections - Part 4: Non-accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance	EN IEC 60352-4	-
IEC 60352-5	-	Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance	EN IEC 60352-5	-
IEC 60352-6	-	Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance	EN IEC 60352-6	-
IEC 60352-7	-	Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance	EN IEC 60352-7	-

**EN IEC 61076-2-111:2026 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60352-9	-	Solderless connections - Part 9: Ultrasonically welded connections - General requirements, test methods and practical guidance	EN IEC 60352-9	-
IEC 60512-1	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 1: Generic specification	EN IEC 60512-1	-
IEC 60512-1-2	-	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass	EN 60512-1-2	-
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	-
IEC 60512-9-1	-	Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation	EN 60512-9-1	-
IEC 60512-9-2	-	Connectors for electronic equipment - Tests and measurements - Part 9-2: Endurance tests - Test 9b: Electrical load and temperature	EN 60512-9-2	-
IEC 60512-11-3	-	Connectors for electronic equipment - Tests and measurements - Part 11-3: Climatic tests - Test 11c: Damp heat, steady state	EN 60512-11-3	-
IEC 60512-11-4	-	Connectors for electronic equipment - Tests and measurements - Part 11-4: Climatic tests - Test 11d: Rapid change of temperature	EN 60512-11-4	-

## EN IEC 61076-2-111:2026 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60512-11-7	-	Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test	EN 60512-11-7	-
IEC 60512-11-9	-	Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests - Test 11i: Dry heat	EN 60512-11-9	-
IEC 60512-11-10	-	Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests - Test 11j: Cold	EN 60512-11-10	-
IEC 60512-11-12	-	Connectors for electronic equipment - Tests and measurements - Part 11-12: Climatic tests - Test 11m: Damp heat, cyclic	EN 60512-11-12	-
IEC 60512-12-1	-	Connectors for electronic equipment - Tests and measurements - Part 12-1: Soldering tests - Test 12a: Solderability, wetting, solder bath method	EN 60512-12-1	-
IEC 60512-12-2	-	Connectors for electronic equipment - Tests and measurements - Part 12-2: Soldering tests - Test 12b: Solderability, wetting, soldering iron method	EN 60512-12-2	-
IEC 60512-12-3	-	Connectors for electronic equipment - Tests and measurements - Part 12-3: Soldering tests - Test 12c: Solderability, de-wetting	EN 60512-12-3	-
IEC 60512-13-2	-	Connectors for electronic equipment - Tests and measurements - Part 13-2: Mechanical operation tests - Test 13b: Insertion and withdrawal forces	EN 60512-13-2	-
IEC 60512-13-5	-	Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method	EN 60512-13-5	-
IEC 60512-14-7	-	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 14: Sealing tests - Section 7: Test 14g: Impacting water	EN 60512-14-7	-
IEC 60512-16-5	-	Connectors for electronic equipment - Tests and measurements - Part 16-5: Mechanical tests on contacts and terminations - Test 16e: Gauge retention force (resilient contacts)	EN 60512-16-5	-
IEC 60512-19-3	-	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 19: Chemical resistance tests - Section 3: Test 19c - Fluid resistance	EN 60512-19-3	-

**EN IEC 61076-2-111:2026 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60512-23-3	-	Connectors for electrical and electronic equipment - Tests and measurements - Part 23-3: Screening and filtering tests - Test 23c: Shielding effectiveness of connectors and accessories - Line injection method	EN IEC 60512-23-3	-
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	EN 60529	-
IEC 60664-1	2020	Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests	EN IEC 60664-1	2020
IEC 60999-1	-	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	-
IEC 61076-1	-	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	-
IEC 61984	2008	Connectors - Safety requirements and tests	EN 61984	2009
IEC 62197-1	-	Connectors for electronic equipment - Quality assessment requirements - Part 1: Generic specification	EN 62197-1	-
IEC/TR 63040	-	Guidance on clearances and creepage distances in particular for distances equal to or less than 2 mm - Test results of research on influencing parameters	-	-
ISO 21920-1	-	Geometrical product specifications (GPS) - Surface texture: Profile - Part 1: Indication of surface texture	EN ISO 21920-1	-



# IEC 61076-2-111

Edition 2.0 2025-12

# INTERNATIONAL STANDARD

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**Connectors for electrical and electronic equipment - Product requirements -  
Part 2-111: Circular connectors - Detail specification for power connectors with  
M12 screw-locking**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Connectors for electrical and electronic equipment -  
Product requirements -  
Part 2-111: Circular connectors -  
Detail specification for power connectors with M12 screw-locking**

## 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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IEC 61076-2-111 has been prepared by subcommittee 48B: Electrical connectors, of IEC technical committee 48: Electrical connectors and mechanical structures for electrical and electronic equipment. It is an International Standard.

This second edition cancels and replaces the first edition published in 2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) The structure of this document has been adapted to the new IEC template for standards. New subclauses have been added. In Clause 5 and Clause 6, technical specifications have been updated.
- b) This document no longer includes the mating faces for M12 E-coded connectors.

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c) Annex B (informative) Orientation of cable outlet in relation to coding has been added.

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

Draft	Report on voting
48B/3169/FDIS	48B/3180/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/publications](http://www.iec.ch/publications).

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