



INTERNATIONAL STANDARD

**Connectors for electrical and electronic equipment - Product requirements -
Part 2-104: Circular connectors - Detail specification for circular connectors with
M8 screw-locking or snap-locking**

This is a preview of IEC 61076-2-104 Ed. 3.0 en:2026. [Click here to purchase the full version from the ANSI store.](#)

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**Connectors for electrical and electronic equipment -
Product requirements -
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FOREWORD

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IEC 61076-2-104 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 third edition cancels and replaces the second edition published in 2014. 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. Clause 5 and Clause 6 have been updated.
- b) The mating face for a M8 12-pole connector has been added.

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d) The styles for connector inserts have been moved to the normative Annex C.

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

Draft	Report on voting
48B/3188/FDIS	48B/3194/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.

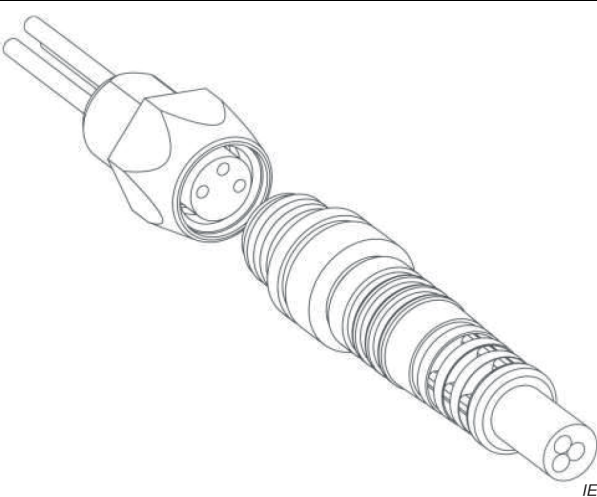
This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts of 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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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<p>Specification available from: IEC General secretariat or from the addresses shown on the inside cover.</p>	
<p>Electronic components of assessed quality in accordance with: IEC 61076-1</p>	
	<p>Circular connectors M8 (screw-locking) – diameter 8 mm (snap-locking)</p> <p>3 to 12 way</p> <p>Male and female contacts</p> <p>Male and female connectors</p> <p>Rewirable – Non-rewirable</p> <p>Free cable connectors straight and right angled</p> <p>Fixed connectors -flange mounting and single hole mounting</p> <p>Connector insert</p>

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This part of IEC 61076 describes 3-way to 12-way circular connectors with M8 screw-locking or with nominal \varnothing 8 mm snap-locking, for connection of automation devices, for signal and power transmission up to 50 V AC / 60 V DC rated voltage and up to 4 A rated current.

These connectors are available as fixed or free connectors, either rewirable or non-rewirable. Male connectors have round contacts \varnothing 0,48 mm, \varnothing 0,6 mm, \varnothing 0,7 mm and \varnothing 1,0 mm, depending on the number of ways and coding, with all contacts being of the same size.

The different codings prevent the mating of differently coded male and female connectors.

NOTE M8 is the dimension of the thread of the screw locking mechanism of these circular connectors.

2 Normative references

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.

IEC 60050-581, *International Electrotechnical Vocabulary (IEV) - Part 581: Electromechanical components for electronic equipment*

IEC 60068-1, *Environmental testing - Part 1: General and guidance*

IEC 60352-2, *Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance*

IEC 60352-3, *Solderless connections - Part 3: Accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance*

IEC 60352-4, *Solderless connections - Part 4: Non-accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance*

IEC 60352-5, *Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance*

IEC 60352-6, *Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance*

IEC 60352-7, *Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance*

IEC 60352-9, *Solderless connections - Part 9: Ultrasonically welded connections - General requirements, test methods and practical guidance*

IEC 60512 (all parts), *Connectors for electrical and electronic equipment – Tests and measurements*

IEC 60512-1, *Connectors for electrical and electronic equipment - Tests and measurements - Part 1: General specification*

IEC 60512-1-2, *Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination - Test 1b: Examination of dimension and mass*

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IEC 60512-5-2, *Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests - Test 5b: Current-temperature derating*

IEC 61076-2, *Connectors for electrical and electronic equipment - Product requirements - Part 2: Sectional specification for circular connectors*

IEC 61076-2-114, *Connectors for electrical and electronic equipment - Product requirements - Part 2-114: Circular connectors - Detail specification for connectors with M8 screw-locking with power contacts and signal contacts for data transmission up to 100 MHz*

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 11469, *Plastics - Generic identification and marking of plastics products*

ISO 21920-1:2021, *Geometrical product specifications (GPS) - Surface texture: Profile - Part 1: Indication of surface texture*
