IEC 61076-2

Edition 3.0 2025-11

INTERNATIONAL STANDARD

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

ICS 31.220.10

ISBN 978-2-8327-0799-9

IEC 61076-2:2025-11(en)

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FOREWORD

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IEC 61076-2 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 International Standard is to be used in conjunction with IEC 61076-1:2006.

This third edition cancels and replaces the second edition published in 2011. This edition constitutes a technical revision.

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

a) Added content to Clause 4, Clause 5 and Clause 6.
b) Updated the test schedule table format and added notes and other information.

c) Added Table 13, Table M with transmission characteristics tests.

d) Added Table 14, Table N with current-carrying capacity test.

e) Deleted Clause 7 regarding Blank detail specification.

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

Draft	Report on voting
48B/3168/FDIS	48B/3179/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.

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.

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.

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– withdrawn, or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.

1 Scope

This part of IEC 61076 establishes uniform specifications and technical information for circular connectors. This document is to be used in conjunction with the generic specification IEC 61076-1 for product requirements as the basis for preparation of detail product specifications for circular connectors.

NOTE The quality assessment requirements for connectors whose product requirements are given in IEC 61076 series are detailed in IEC 62197-1. This can be used as the basis for preparation of detail quality assessment specifications for circular connectors.

In the event of conflict between this sectional product specification and the detail product specification, it is intended that the requirements of the detail product specification prevail.

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

IEC 60352 (all parts), *Solderless connections*

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

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 60664-1, *Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests*

IEC 61076-1, *Connectors for electronic equipment - Product requirements - Part 1: Generic specification*

IEC 61984, *Connectors - Safety requirements and tests*

IEC 62197-1:2006, *Connectors for electronic equipment - Quality assessment requirements - Part 1: Generic specification*

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*