



SLOVENSKI STANDARD

SIST EN 61076-2:2011

01-oktober-2011

Konektorji za elektronsko opremo - Zahteve za izdelek - 2. del: Področna specifikacija za okrogle konektorje

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

Steckverbinder für elektronische Einrichtungen - Produkthanforderungen -- Teil 2: Rahmenspezifikation für Rundsteckverbinder

Connecteurs pour équipements électroniques - Exigences de produit - Partie 2: Spécification intermédiaire pour les connecteurs circulaires

<https://standards.iteh.ai/catalog/standards/sist/26234af1-fb1a-4037-bb48-a7df4cc074b0/sist-en-61076-2-2011>

Ta slovenski standard je istoveten z: EN 61076-2:2011

ICS:

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

SIST EN 61076-2:2011

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 61076-2:2011](#)

<https://standards.iteh.ai/catalog/standards/sist/26234af1-fb1a-4037-bb48-a7df4cc074b0/sist-en-61076-2-2011>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61076-2

July 2011

ICS 31.220.10

Supersedes EN 61076-2:1999

English version

**Connectors for electronic equipment -
Product requirements -
Part 2: Sectional specification for circular connectors
(IEC 61076-2:2011)**

Connecteurs pour équipements
électroniques -
Exigences de produit -
Partie 2: Spécification intermédiaire pour
les connecteurs circulaires
(CEI 61076-2:2011)

Steckverbinder für elektronische
Einrichtungen -
Produktanforderungen -
Teil 2: Rahmenspezifikation für
Rundsteckverbinder
(IEC 61076-2:2011)

iTeh STANDARD PREVIEW
(standards.iteh.ai)

This European Standard was approved by CENELEC on 2011-07-26. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat 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 Central Secretariat 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document (48B/2240/FDIS), future edition 2 of IEC 61076-2, prepared by SC 48B, Connectors, of IEC TC 48, Electromechanical components and mechanical structures for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61076-2 on 2011-07-26.

This European Standard supersedes EN 61076-2:1999.

EN 61076-2:2011 includes the following significant technical changes with respect to EN 61076-2:1999:

- a) This European Standard no longer includes the quality assessment procedures. As described in EN 61076-1 and EN 62197-1, a new document structure has been established. EN 61076-2 has been revised to reflect this updated structure.
- b) Subclause 3.2, *Systems of levels* has been introduced.
- c) The subclause on EN type designation has been removed.
- d) Clauses 4 *Dimensional information* and 5 *Characteristics* have been added.
- e) Some clauses and test groups have been rearranged. Test group HP has been added.

This standard is to be used in conjunction with EN 61076-1 and EN 62197-1.

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

The following dates were fixed: **(standards.iteh.ai)**

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2012-04-26
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2014-07-26

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61076-2:2011 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60352	Series	Solderless connections	EN 60352	Series
IEC 60512	Series	Connectors for electronic equipment - Tests and measurements	EN 60512	Series
IEC 60512-1-100	-	Connectors for electronic equipment - Tests and measurements Part 1-100: General - Applicable publications	EN 60512-1-100	-
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006
IEC 61076-2-001	-	Connectors for electronic equipment - Product requirements - Part 2-001: Circular connectors - Blank detail specification	EN 61076-2-001	-
IEC 62197-1	-	Connectors for electronic equipment - Quality assessment requirements - Part 1: Generic specification	EN 62197-1	-

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 61076-2:2011](#)

<https://standards.iteh.ai/catalog/standards/sist/26234af1-fb1a-4037-bb48-a7df4cc074b0/sist-en-61076-2-2011>



IEC 61076-2

Edition 2.0 2011-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Connectors for electronic equipment – Product requirements –
Part 2: Sectional specification for circular connectors**

**Connecteurs pour équipements électroniques – Exigences de produit –
Partie 2: Spécification intermédiaire pour les connecteurs circulaires**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

R

ICS 31.220.10

ISBN 978-2-88912-565-4

CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Technical information	5
3.1 Terms and definitions	5
3.2 System of levels	6
3.2.1 Performance levels	6
3.2.2 Compatibility levels, according to IEC 61076-1	6
3.3 Classification into climatic categories	6
3.4 Creepage and clearance distances.....	6
3.5 Current-carrying capacity	6
3.6 Marking	6
4 Dimensional information	6
5 Characteristics	7
6 Tests and test schedules	7
6.1 General aspects	7
6.2 Test schedules	7
6.2.1 General	7
6.2.2 Basic (minimum) test schedule	8
6.2.3 Full test schedule	8
6.3 Test procedures and measuring methods	18
6.4 Pre-conditioning	18
6.5 Wiring and mounting of specimens	18
6.5.1 Wiring.....	18
6.5.2 Mounting	18
7 Blank detail product specification – General	18
Table 1 – Basic tests (minimum).....	8
Table 2 – Test group P	9
Table 3 – Test group AP	10
Table 4 – Test group BP	12
Table 5 – Test group CP	13
Table 6 – Test group DP	14
Table 7 – Test group EP	15
Table 8 – Test group FP	15
Table 9 – Test group GP	16
Table 10 – Test group HP	16
Table 11 – Test group KP	17
Table 12 – Test group LP.....	17

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –
PRODUCT REQUIREMENTS –**
Part 2: Sectional specification for circular connectors

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.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and 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 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This second edition cancels and replaces the first edition of IEC 61076-2 (1998). This edition constitutes a technical revision.

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

- This International Standard no longer includes the quality assessment procedures. As described in IEC 61076-1 and IEC 62197-1, a new document structure has been established. IEC 61076-2 has been revised to reflect this updated structure.
- Subclause 3.2, *Systems of levels* has been introduced.
- The subclause on IEC type designation has been removed.

- Clauses 4 *Dimensional information* and 5 *Characteristics* have been added.
- Some clauses and test groups have been rearranged. Test group HP has been added.

The text of this standard is based on the following documents:

FDIS	Report on voting
48B/2240/FDIS	48B/2247/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

ITEH STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 61076-2:2011](https://standards.iteh.ai/catalog/standards/sist/26234af1-fb1a-4037-bb48-a7df4cc074b0/sist-en-61076-2-2011)

<https://standards.iteh.ai/catalog/standards/sist/26234af1-fb1a-4037-bb48-a7df4cc074b0/sist-en-61076-2-2011>

CONNECTORS FOR ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 2: Sectional specification for circular connectors

1 Scope

This part of IEC 61076 establishes uniform specifications and technical information for circular connectors. It should be used in conjunction with the generic specification IEC 61076-1:2006 for product requirements and with IEC 62197-1 for quality requirements as the basis for preparation of consistent detail product specifications for circular connectors.

NOTE 1 It is intended that a detail quality specification, IEC 62197-2-1XX, be prepared, based on the blank detail specification for circular connectors IEC 62197-2-001, to be used in addition to the corresponding detail product specification IEC 61076-2-1XX..

NOTE2 The quality assessment requirements for connectors according to the IEC 61076series are detailed in IEC 62197-1.

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

ITeH STANDARD PREVIEW
(standards.iteh.ai)

2 Normative references

The following referenced documents are indispensable for the application 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 electronic equipment – Basic testing procedures and measuring methods*

IEC 60512-1-100, *Connectors for electronic equipment – Tests and measurements – Part 1-100: General – Applicable publications*

IEC 61076-1:2006, *Connectors for electronic equipment – Product requirements – Part 1: Generic specification*

IEC 61076-2-001, *Connectors for electronic equipment – Part 2-001: Circular connectors – Blank detail specification*

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

3 Technical information

3.1 Terms and definitions

Terminology used in and applicable to this International Standard is stated in 2.1 of IEC 61076-1. IEC 60512-1 also contains applicable terms.