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Standards

Irish Standard  
I.S. EN 61076-2-001:2011

Connectors for electronic equipment -  
Product requirements -- Part 2-001:  
Circular connectors - Blank detail  
specification (IEC 61076-2-001:2011  
(EQV))

## I.S. EN 61076-2-001:2011

*Incorporating amendments/corrigenda issued since publication:*

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN 61076-2-001**

August 2011

ICS 31.220.10

Supersedes EN 61076-2-001:2001

English version

**Connectors for electronic equipment -  
Product requirements -  
Part 2-001: Circular connectors -  
Blank detail specification  
(IEC 61076-2-001:2011)**

Connecteurs pour équipements  
électroniques -  
Exigences de produit -  
Partie 2-001: Connecteurs circulaires -  
Spécification particulière cadre  
(CEI 61076-2-001:2011)

Steckverbinder für elektronische  
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Produktanforderungen -  
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(IEC 61076-2-001:2011)

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.

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**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/2241/FDIS, future edition 2 of IEC 61076-2-001, 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 61076-2-001 on 2011-07-26.

This European Standard supersedes EN 61076-2-001:2001.

EN 61076-2-001:2011 includes the following significant technical changes with respect to EN 61076-2-001:2001:

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 61076-2-001 has been revised to reflect this updated structure.

b) Subclause 3.2, *Systems of levels* has been introduced.

c) The subclause *IEC 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.

EN 61076-2-001:2011 should be used in conjunction with EN 61076-1, EN 61076-2 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:

- |  |       |            |
|--|-------|------------|
| – 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.

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## Endorsement notice

The text of the International Standard IEC 61076-2-001:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60664-1	NOTE Harmonized as EN 60664-1.
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## 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	-	Connectors for electronic equipment - Tests and measurements - Part 1: General	EN 60512-1	-
IEC 60512-1-100	-	Connectors for electronic equipment - Tests and measurements - Part 1-100: General - Applicable publications	EN 60512-1-100	-
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 60999-2	-	Connecting devices - Electrical copper conductors - Safety requirements for screw- type and screwless-type clamping units - Part 2: Particular requirements for clamping units for conductors above 35 mm <sup>2</sup> up to 300 mm <sup>2</sup> (included)	EN 60999-2	-
IEC 61076-1	2006	Connectors for electronic equipment - Product requirements - Part 1: Generic specification	EN 61076-1	2006
IEC 61076-2	2011	Connectors for electronic equipment - Product requirements - Part 2: Sectional specification for circular connectors	EN 61076-2	2011
IEC 62197-1	-	Connectors for electronic equipment - Quality assessment requirements - Part 1: Generic specification	EN 62197-1	-

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## CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	9
2 Normative references .....	11
3 Technical information .....	13
3.1 Terms and definitions .....	13
3.2 Systems of levels .....	13
3.2.1 Performance levels.....	13
3.2.2 Compatibility levels, according to IEC 61076-1 Ed. 2.0 .....	13
3.3 Classification into climatic categories .....	13
3.4 Creepage and clearance distances.....	15
3.5 Current-carrying capacity .....	15
3.6 Marking .....	15
4 Dimensional information .....	17
4.1 General.....	17
4.2 Isometric view and common features.....	17
4.2.1 Common features .....	19
4.2.2 Reference system.....	19
4.3 Engagement (mating) information.....	21
4.3.1 Engaging (mating) direction.....	21
4.3.2 Perpendicular to the engaging (mating) direction .....	21
4.3.3 Inclination.....	21
4.4 Fixed connectors .....	21
4.4.1 Dimensions .....	21
4.4.2 Terminations .....	21
4.5 Free connectors .....	23
4.5.1 Dimensions .....	23
4.5.2 Terminations .....	23
4.6 Accessories.....	23
4.7 Mounting information for connectors.....	23
4.7.1 Mounting on panels .....	25
4.8 Gauges .....	25
4.8.1 Sizing gauges and retention force gauges .....	25
4.8.2 Mechanical function, engaging/separating/insertion/withdrawal force gauges .....	27
4.8.3 Probes.....	27
4.8.4 Contact resistance gauge .....	27
4.8.5 Test panel (for voltage proof test).....	27
4.8.6 Test panel (for EMC/ crosstalk etc.).....	27
5 Characteristics .....	29
5.1 General.....	29
5.2 Pin assignment and other definitions .....	29
5.3 Classification into climatic categories .....	29
5.4 Electrical characteristics.....	29
5.4.1 Creepage and clearance distances.....	29
5.4.2 Voltage proof.....	31

**I.S. EN 61076-2-001:2011**

61076-2-001 © IEC:2011

– 3 –

5.4.3	Current-carrying capacity.....	31
5.4.4	Contact and shield resistance.....	31
5.4.5	Insulation resistance.....	31
5.4.6	Impedance.....	33
5.5	Mechanical characteristics .....	35
5.5.1	Mechanical operation .....	35
5.5.2	Effectiveness of connector coupling devices.....	35
5.5.3	Engaging and separating forces (or insertion and withdrawal forces).....	35
5.5.4	Contact retention in insert.....	35
5.5.5	Polarizing and coding method.....	35
5.6	Other characteristics .....	37
5.6.1	Shock and vibration (method either random or sine) .....	37
5.6.2	Degree of protection provided by enclosures (IP code) .....	37
5.6.3	Screen and shielding properties .....	37
5.7	Environmental aspects .....	39
5.7.1	Marking of insulation material (plastics).....	39
5.7.2	Design/ use of material.....	39
6	Test schedule.....	41
6.1	General.....	41
6.1.1	Climatic category.....	41
6.1.2	Creepage and clearance distances.....	43
6.1.3	Arrangement for contact resistance measurement .....	43
6.1.4	Arrangement for dynamic stress tests.....	43
6.1.5	Arrangement for testing static load; axial .....	43
6.1.6	Wiring of specimens .....	43
6.2	Test schedules .....	45
6.2.1	Basic (minimum) test schedule .....	45
6.2.2	Full test schedule .....	49
6.3	Test procedures and measuring methods .....	73
6.4	Pre-conditioning .....	73
6.5	Wiring and mounting of specimens .....	73
6.5.1	Wiring.....	73
6.5.2	Mounting .....	73
Annex A (normative) New tests and additional test phases .....		74
Bibliography.....		75
Table 1 – Performance levels .....		13
Table 2 – Isometric view and common features.....		17
Table 3 – Performance levels, example .....		28
Table 4 – Performance levels .....		29
Table 5 – Creepage and clearance distances.....		29
Table 6 – Performance levels .....		41
Table 7 – Creepage and clearance distances.....		43
Table 8 – Tests, example.....		44
Table 9 – Basic tests .....		45
Table 10 – Number of test specimens and contacts .....		49
Table 11 – Test group P .....		49



Table 12 – Test group AP .....	53
Table 13 – Test group BP .....	59
Table 14 – Test group CP .....	63
Table 15 – Test group DP .....	65
Table 16 – Test group EP .....	67
Table 17 – Test group FP .....	67
Table 18 – Test group GP .....	69
Table 19 – Test group HP .....	69
Table 20 – Test group KP .....	71
Table 21 – Test group LP .....	71

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### CONNECTORS FOR ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

#### Part 2-001: Circular connectors – Blank detail specification

#### 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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- 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 61076-2-001 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This International Standard cancels and replaces the first edition of IEC 61076-2-001 (2001). This edition constitutes a technical revision.

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

- a) 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 61076-2-001 has been revised to reflect this updated structure.
- b) Subclause 3.2, *Systems of levels* has been introduced.
- c) The subclause *IEC 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.

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

FDIS	Report on voting
48B/2241/FDIS	48B/2248/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.

## INTRODUCTION

This blank detail product specification is a supplementary document to the sectional product specification IEC 61076-2 and contains requirements for style, layout and content of detail product specifications for circular connectors. It should be used in conjunction with the following publications: IEC 61076-1 and IEC 61076-2 for product requirements as well as IEC 62197-1 for quality requirements.

The main content of this blank detail product specification is divided into two parts: on one page the example for a blank detail product specification, on the other page the guidance notes referring to the example. The guidance notes have the same numbering as the relevant paragraphs of the example pages.

The sample pages can be used like a template when preparing a detail product specification within the scope of this document. This document is not intended to replace the templates and guidance notes of IEC, but to assist in their application. All users are reminded to adhere to relevant directives and guidelines of the IEC when preparing a standard.

NOTE 1 A detail quality specification IEC 62197-2-1xx should be prepared, based on the blank detail quality specification for circular connectors IEC 62197-2-001 and its references and should be used in conjunction with the detail product specification IEC 61076-2-1xx.

NOTE 2 The quality assessment requirements for connectors according to the IEC 61076 series are detailed in IEC 62197-1.

### **Guidance notes**

The following pages give a recommended layout of a detail product specification. The contents of this page give guidance on the information which should, wherever possible, be given on the front page of a detail product specification (see IEC Guide 102).

For the scope and definition of a detail product specification, see 1.2.3 of IEC 61076-1.

The numbers between brackets on the front page of the detail product specification correspond to the following information.

#### **Identification of the detail product specification**

- [1] The International Electrotechnical Commission or the national standards organization under whose authority the detail product specification is drafted. It shall also be stated where the detail product specification may be obtained.
- [2] The IEC number of the detail product specification and date of issue.
- [3] The IEC number and issue number of the generic and the sectional specifications.
- [4] The national number of the detail product specification, if it differs from the IEC number.

#### **Identification of the connector**

- [5] A short description of the type of connector.
- [6] Information on the typical construction of the connector, for example, it should be stated whether the connector is suitable for mounting on printed boards.
- [7] Outline drawing, preferably of isometric or similar projection, from which the connector may be clearly identified.
- [8] Information on performance level(s) and assessment level(s) specified in the document, if applicable.
- [9] Reference data on the most important properties, to allow comparison between the various connector types.

NOTE It may be convenient to give some of this information in tabular form.

**I.S. EN 61076-2-001:2011**

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– 9 –

[1]	IEC Detail product specification number [2]
Generic specification number Electronic components of assessed quality in accordance with: [3]	National number of detail product specification (it is not necessary to use this if the IEC number is identical) [4]
Outline drawing [7]	Product description [5]
	[6]
	[8] Performance level(s): Assessment level(s):  Combination of performance levels and assessment levels:
	Reference data [9]

**1 Scope**

### **Guidance notes**

## **2 Normative references**

It may be necessary to refer to other documents in addition to those stated, in which case the list of related documents shall be extended beyond those referenced.

If standards are referenced which are already listed in IEC 61076-1 and IEC 61076-2, their reference shall not be repeated in 1.2 of the detail product specification.

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