

**SLOVENSKI**  
**STANDARD**

**SIST EN 61076-2-  
101:2004/A1:2006**

julij 2006

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**Konektorji za elektronsko opremo – 2-101. del: Okrogli konektorji – Podrobna specifikacija za okrogle konektorje M8 z navojnim ali zaskočnim zaklepanjem in konektorje M12 z navojnim zaklepanjem za nizke napetosti (IEC 61076-2-101:2003/A1:2006)**

Connectors for electronic equipment - Part 2-101: Circular connectors - Detail specification for circular connectors M8 with screw- or snap-locking, M12 with screw-locking for low voltage applications (IEC 61076-2-101:2003/A1:2006)

[SIST EN 61076-2-101:2004/A1:2006](https://standards.iteh.ai/catalog/standards/sist/16a5990a-dabd-4b16-9e33-5b8149015feb/sist-en-61076-2-101-2004-a1-2006)

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ICS 31.220.10

Referenčna številka  
SIST EN 61076-2-  
101:2004/A1:2006(en)

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SIST EN 61076-2-101:2004/A1:2006

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**Connectors for electronic equipment  
Part 2-101: Circular connectors -  
Detail specification for circular connectors  
M8 with screw- or snap-locking,  
M12 with screw-locking for low voltage applications  
(IEC 61076-2-101:2003/A1:2006)**

Connecteurs pour équipements  
électroniques  
Partie 2-101: Connecteurs circulaires -  
Spécification particulière  
pour les connecteurs circulaires  
M8 à vis ou à encliquetage,  
M12 à vis pour applications basse tension  
(CEI 61076-2-101:2003/A1:2006)

Steckverbinder für elektronische  
Einrichtungen  
Teil 2-101: Rundsteckverbinder -  
Bauartspezifikation  
für Rundsteckverbinder  
M8 mit Schraub- oder Rastverriegelung  
und M12 mit Schraubverriegelung  
für Niederspannungsanwendungen  
(IEC 61076-2-101:2003/A1:2006)

[SIST EN 61076-2-101:2004/A1:2006](https://standards.iteh.ai/catalog/standards/sist/16a5990a-dabd-4b16-9e33-fb8149c55f1/cen-61076-2-101:2003/A1:2006)

[https://standards.iteh.ai/catalog/standards/sist/16a5990a-dabd-4b16-9e33-](https://standards.iteh.ai/catalog/standards/sist/16a5990a-dabd-4b16-9e33-fb8149c55f1/cen-61076-2-101:2003/A1:2006)

This amendment A1 modifies the European Standard EN 61076-2-101:2003; it was approved by CENELEC on 2006-02-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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, 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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 48B/1591/FDIS, future amendment 1 to IEC 61076-2-101:2003, 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 amendment A1 to EN 61076-2-101:2003 on 2006-02-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2006-11-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2009-02-01

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## Endorsement notice

The text of amendment 1:2006 to the International Standard IEC 61076-2-101:2003 was approved by CENELEC as an amendment to the European Standard without any modification.

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<https://standards.iteh.ai/catalog/standards/sist/16a5990a-dabd-4b16-9e33-5b8149015feb/sist-en-61076-2-101-2004-a1-2006>

NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC

61076-2-101

2003

AMENDEMENT 1  
AMENDMENT 1  
2006-02

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Amendement 1

**Connecteurs pour équipements électroniques –**

**Partie 2-101:**

**Connecteurs circulaires –**

**Spécification particulière pour les connecteurs  
circulaires M8 à vis ou à encliquetage,  
M12 à vis pour applications basse tension**

SIST EN 61076-2-101:2004/A1:2006

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5b8149015feb/sist-en-61076-2-101-2004-a1-2006

Amendment 1

**Connectors for electronic equipment –**

**Part 2-101:**

**Circular connectors –**

**Detail specification for circular connectors  
M8 with screw- or snap-locking, M12 with  
screw-locking for low voltage applications**

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Международная Электротехническая Комиссия

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## FOREWORD

This amendment has been prepared by subcommittee 48B: Connectors, of IEC Technical Committee 48: Electromechanical components and mechanical structures for electronic equipment.

The text of this amendment is based on the following documents

FDIS	Report on voting
48B/1591/FDIS	48B/1618/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result 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.

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## CONTENTS

*Add the title of Annex B as follows:*

Annex B Diameter of the female connector body

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### 1.1 Scope

*Add at the end of this Subclause, the following new text:*

It also applies to 4 pole M12 circular connectors with integrated codings (i.e. D-coding) for use in industrial environments at frequencies of 100 MHz and beyond like Industrial Ethernet (see Note 1), to 5 pole M12 circular connectors with an integrated coding (B-coding) for use in industrial environments in fieldbuses like Profibus DP and Interbus, and to a 5-pole M12 circular connectors with an integrated coding (P-coding) for use in low voltage applications as a 4 + PE interface, with a centre contact dedicated to PE as a first make last break contact (see Note 2).

The B, D and P-codings prevent the mating of these coded male or female connectors to any other interfaces and cross mating between B, D, and P-coding.

NOTE 1 D-codings for other applications/frequency ranges are under consideration.

NOTE 2 Ratings and characteristics for the 4+PE versions (P-coding) and Profibus DP/ Interbus (B-coding) are the same as for 5 pole version.

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## 1.6 IEC Type designation

*Add, at the right-hand side of the type designation, a new letter:*

Letter denoting coding devices	
Standard per 61076-2-101:2003 (Ed 1).....	A
Like Profibus DP/Interbus .....	B
To be determined (next edition) .....	C
Like Industrial Ethernet.....	D
M12 with protective earth contact (PE) .....	P

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### 1.7 Ordering information (standards.iteh.ai)

*Replace the two existing examples by the following:*

<https://standards.iteh.ai/catalog/standards/sist/16a5990a-dabd-4b16-9e33-5b8149015feb/sist-en-61076-2-101-2004-a1-2006>

#### EXAMPLE 1

non-rewireable free connector.  
DMF 004 – G1B – 020 – 3A – D

Free connector M12 Style MF, non-rewireable, right angled version with female contacts, 4 poles, with knurled ring, gold contact finish, assessment level B, cable length 2,0 m, cross section of wire 0,34 mm<sup>2</sup>, PUR cable jacket, D-coding.

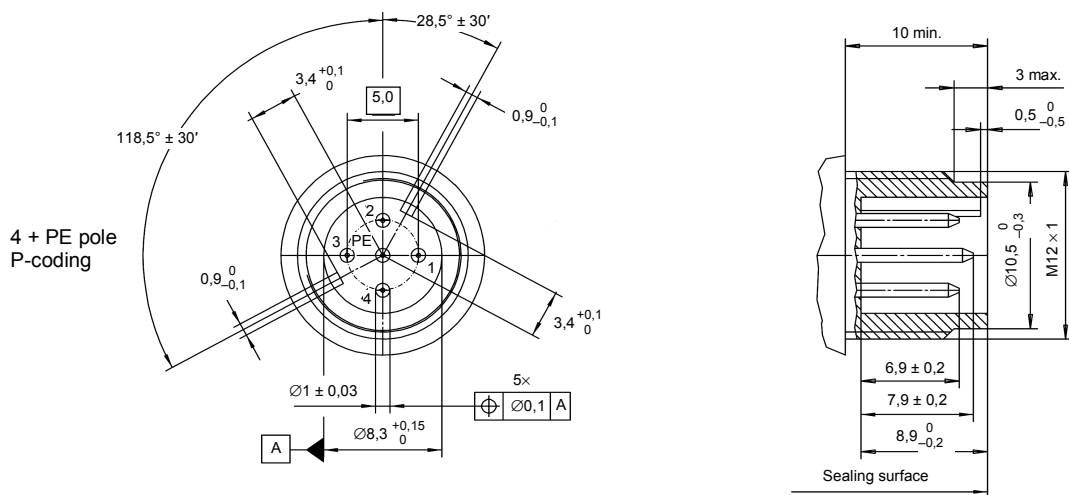
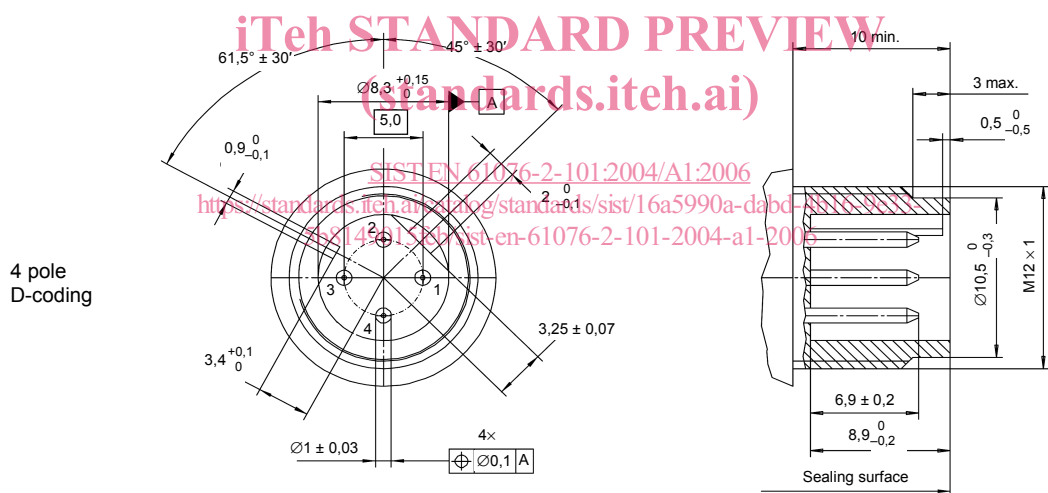
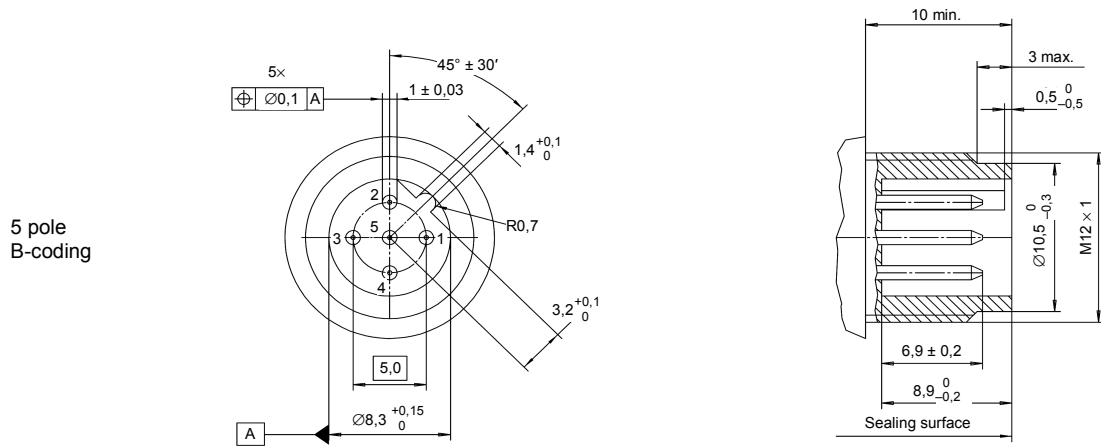
#### EXAMPLE 2

rewireable free connector.  
DKM 004 – GC3B – D

Free connector M12 Style KM, rewireable, right angled version with female contacts, with 4 poles, with knurled ring, crimp terminals, tin contact finish, assessment level B, D-coding.

Figure 35 – Type D – Front view of connectors

Add the following new drawings to Figure 35, the 5 pole with B-coding, the 4 pole with D-coding and the 4+PE with P-coding.

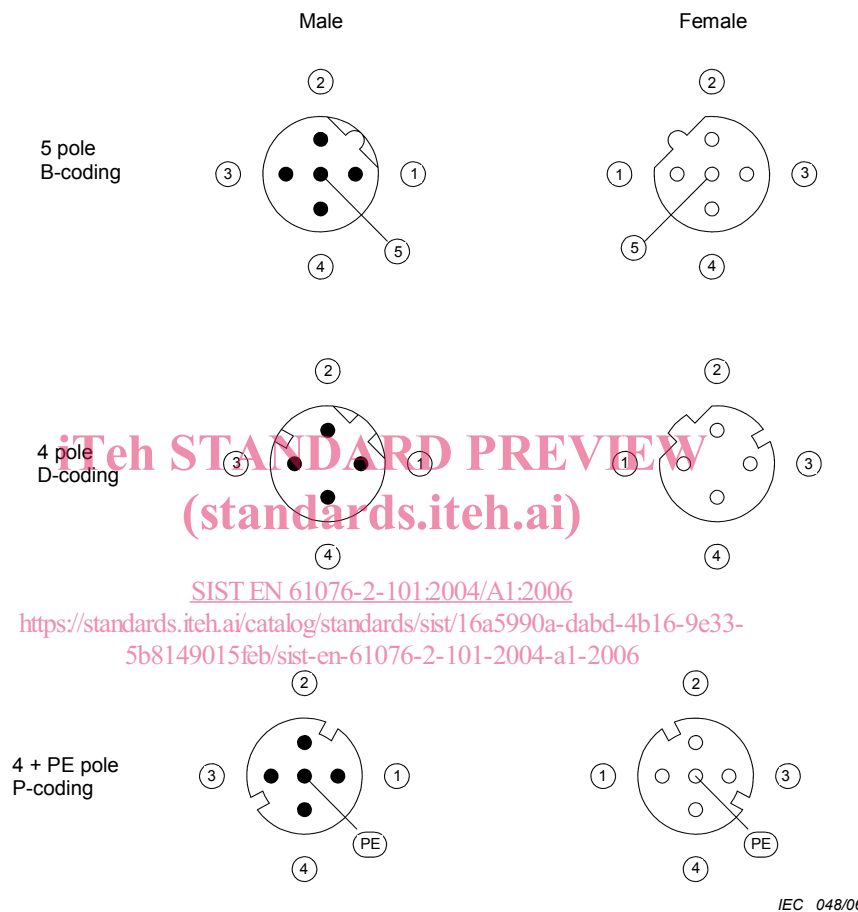




**Figure 36 – Type D – Contact marking of connectors**

Delete the existing note.

Add the following new drawings to Figure 36, the 5 pole with B-coding, the 4 pole with D-coding and the 4+PE with P-coding.



Add to the Note in Figure 36:

and is part of this amendment.