
?cbY_ hcfj' nUY_Y_ hcbg_c`cdfYa c`!NU hYj Y'nU]nXY_Y!" !%\$* "XY. 'DfUj c_cfb]`
cbY hcfj'!DcXfcVbUgdYVZ_ UY'U'nU'nUy` j]bUc\ jy'U'nUi dcfUvc`df], !fYXb]`
nUg`cb^yb]` j]b'bYnUg`cb^yb]` _cbY_ hcfj' nU]bXi gff]g_ Uc_c`Unj [fUYb]a]`
nUdcfYXb]a]]j a Ygb]_]dc` 97 *\$*\$! !+f 97 *%\$+*! !%\$* .&\$*\$ Ł

Connectors for electronic equipment - Product requirements - Part 3-106: Rectangular connectors - Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface (IEC 61076-3-106:2006)

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Steckverbinder für elektronische Einrichtungen - Produktanforderungen - Teil 3-106: Rechteckige Steckverbinder - Bauartspezifikation für Schutzgehäuse für die Anwendung mit 8-poligen geschirmten und ungeschirmten Steckverbindern für industrielle Umgebungen zur Aufnahme der Schnittstelle der Reihe IEC 60603-7 (IEC 61076-3-106:2006)

Connecteurs pour équipements électroniques - Exigences de produit - Partie 3-106: Connecteurs rectangulaires - Spécification particulière pour boîtiers de protection utilisés avec des connecteurs blindés et non blindés 8 voies pour des environnements industriels incorporant l'interface série CEI 60603-7 (IEC 61076-3-106:2006)

Ta slovenski standard je istoveten z: EN 61076-3-106:2006

ICS:

31.220.10

SIST EN 61076-3-106:2008

en,fr,de

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**Connectors for electronic equipment -
Product requirements
Part 3-106: Rectangular connectors -
Detail specification for protective housings
for use with 8-way shielded and unshielded connectors
for industrial environments incorporating
the IEC 60603-7 series interface
(IEC 61076-3-106:2006)**

Connecteurs pour équipements
électroniques -
Exigences de produit
Partie 3-106: Connecteurs
rectangulaires -
Spécification particulière pour boîtiers de
protection utilisés avec des connecteurs
blindés et non blindés 8 voies pour des
environnements industriels incorporant
l'interface série IEC 60603-7
(CEI 61076-3-106:2006)

Steckverbinder für elektronische
Einrichtungen -
Produktanforderungen
Teil 3-106: Rechteckige Steckverbinder -
Bauartspezifikation für Schutzgehäuse
für die Anwendung mit 8-poligen
geschirmten und ungeschirmten
Steckverbindern für industrielle
Umgebungen zur Aufnahme der
Schnittstelle der Reihe IEC 60603-7
(IEC 61076-3-106:2006)

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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/1692A/FDIS, future edition 1 of IEC 61076-3-106, 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 61076-3-106 on 2006-11-01.

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) 2007-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-11-01

The International Electrotechnical Commission (IEC) and CENELEC draw attention to the fact that it is claimed that compliance with this standard may involve the use of patent(s) concerning the free connectors in 3.5, 3.6.2, 3.10.2, 3.11, 3.11.2, 3.12.2, 3.13.2 and 3.14.2.

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Germany

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Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61076-3-106:2006 was approved by CENELEC as a European Standard without any modification.

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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 60050-581 | 1978 | International Electrotechnical Vocabulary (IEV) Chapter 581: Electromechanical components for electronic equipment | - | - |
| IEC 60068-1 | - ¹⁾ | Environmental testing Part 1: General and guidance | EN 60068-1 | 1994 ²⁾ |
| IEC 60068-2-14 | - ¹⁾ | Environmental testing Part 2: Tests - Test N: Change of temperature | EN 60068-2-14 | 1999 ²⁾ |
| IEC 60068-2-30 | - ¹⁾ | Environmental testing Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle) | EN 60068-2-30 | 2005 ²⁾ |
| IEC 60512 | Series | Connectors for electronic equipment - Tests and measurements | EN 60512 | Series |
| IEC 60512-1-100 | - ¹⁾ | Connectors for electronic equipment - Tests and measurements Part 1-100: General - Applicable publications | EN 60512-1-100 | 2006 ²⁾ |
| IEC 60529 | - ¹⁾ | Degrees of protection provided by enclosures (IP Code) | EN 60529 + corr. May | 1991 ²⁾ 1993 |
| IEC 60603-7 | Series | Connectors for electronic equipment | EN 60603-7 | Series |
| IEC 60664-1 | - ¹⁾ | Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests | EN 60664-1 | 2003 ²⁾ |
| IEC 61076-1 | - ¹⁾ | Connectors for electronic equipment - Product requirements Part 1: Generic specification | EN 61076-1 | 2006 ²⁾ |
| IEC 61156-2 | - ¹⁾ | Multicore and symmetrical pair/quad cables for digital communications Part 2: Horizontal floor wiring - Sectional specification | - | - |
| IEC 61156-3 | - ¹⁾ | Multicore and symmetrical pair/quad cables for digital communications Part 3: Work area wiring - Sectional specification | - | - |

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-----------------|---|--------------|-------------|
| IEC 61156-4 | - ¹⁾ | Multicore and symmetrical pair/quad cables for digital communications Part 4: Riser cables - Sectional specification | - | - |

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

61076-3-106

Première édition
First edition
2006-09

**Connecteurs pour équipements électroniques –
Exigences de produit –**

Partie 3-106:

**Connecteurs rectangulaires – Spécification
particulière pour boîtiers de protection utilisés
avec des connecteurs blindés et non blindés 8
voies pour des environnements industriels
incorporant l'interface série CEI 60603-7**

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**Connectors for electronic equipment –
Product requirements –**

Part 3-106:

**Rectangular connectors – Detail specification for
protective housings for use with 8-way shielded
and unshielded connectors for industrial
environments incorporating the IEC 60603-7
series interface**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS FOR ELECTRONIC EQUIPMENT –
PRODUCT REQUIREMENTS –****Part 3-106: Rectangular connectors – Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface**

FOREWORD

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Germany

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

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

| FDIS | Report on voting |
|----------------|------------------|
| 48B/1692A/FDIS | 48B/1711/RVD |

<https://standards.iteh.ai/catalog/standards/sist/e1aec135-7e33-46c4-bdca-1b70f1e3e30e/iec-61076-3-106-2006>

Full information 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, 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 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.

CONNECTORS FOR ELECTRONIC EQUIPMENT – PRODUCT REQUIREMENTS –

Part 3-106: Rectangular connectors – Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface

1 General data

1.1 Scope

This part of IEC 61076 constitutes the detail specification in the IEC system for electronic components for 8-way connectors for frequencies up to 600 MHz.

This part of IEC 61076 covers protective housings for upgrading existing 8-way shielded and unshielded connectors utilizing the interface described in the IEC 60603-7 series to IP65 and IP67 ratings according to IEC 60529, for use in industrial environments.

The housings cover a variety of different locking mechanisms according to this part of IEC 61076 and a variety of different mounting configurations and termination types which are detailed in the IEC 60603-7 series.

Common mating configuration for all variants are defined in IEC 60603-7. The mating dimensions for the housings under Clause 3 allow the mating conditions under IEC 60603-7 to be fulfilled.

[https://standards.iteh.ai/catalog/standards/sist/e1aec135-7e33-46c4-bdca-](https://standards.iteh.ai/catalog/standards/sist/e1aec135-7e33-46c4-bdca-1b7e1b47e2d1/sist-en-61076-3-106-2008)

The fully assembled variants (connectors) described in this part of IEC 61076 incorporate fully compliant IEC 60603-7 series fixed and free connectors.

1.2 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 60050(581):1978, *International Electrotechnical Vocabulary (IEV) – Chapter 581: Electro-mechanical components for electronic equipment*

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

IEC 60068-2-14, *Environmental testing – Part 2: Tests. Test N: Change of temperature*

IEC 60068-2-30, *Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)*

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