

SLOVENSKI STANDARD

SIST EN 61076-7:2001

01-september-2001

Connectors for use in d.c., low-frequency analogue and digital high speed data applications - Part 7: Cable outlet accessories with assessed quality, including qualification and capability approval - Sectional specification (IEC 61076-7:2000)

Connectors for use in d.c., low-frequency analogue and digital high speed data applications -- Part 7: Cable outlet accessories with assessed quality, including qualification and capability approval - Sectional specification

iTeh STANDARD PREVIEW

Steckverbinder für Gleichspannungs- und Niederfrequenzanwendungen sowie digitale Anwendungen mit hoher Übertragungsrage -- Teil 7: Kabelausgangszubehör mit bewerteter Qualität, einschließlich Bauartanerkennung und Befähigungsanerkennung - Rahmenspezifikation

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SIST EN 61076-7:2001

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Connecteurs sous assurance de la qualité, pour applications analogiques en courant continu et à basse fréquence et pour applications numériques utilisant des débits élevés pour le transfert des données -- Partie 7: Accessoires de sorties de câbles sous assurance de la qualité, y compris homologation et agrément de savoir-faire - Spécification intermédiaire

Ta slovenski standard je istoveten z: EN 61076-7:2000

ICS:

31.220.10 Xā āā Ąā } āĀ [] ^ ğ ĩā Plug-and-socket devices.
Connectors

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EUROPEAN STANDARD

EN 61076-7

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Part 7: Cable outlet accessories with assessed quality, including qualification and capability approval - Sectional specification
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This European Standard was approved by CENELEC on 2000-09-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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/863/FDIS, future edition 1 of IEC 61076-7, 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 61076-7 on 2000-09-01.

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) 2001-06-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2003-09-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annexes A, B, C, D, E and ZA are normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61076-7:2000 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

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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	Series	Environmental testing	EN 60068	Series
IEC 60410	1973	Sampling plans and procedures for inspection by attributes	-	-
IEC 60512	Series	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods	EN 60512	Series
IEC 61076-7-001	1) ¹⁾	Connectors for use in d.c. and low frequency analogue and digital high speed data applications - Part 7-001: Cable outlet accessories with assessed quality including qualification and capability approval - Blank detail specification	-	-
IEC QC 001002	Series	IEC Quality Assessment System for Electronic Components (IECQ) - Rules of Procedure	-	-
IEC QC 001005	1998	Register of firms, products and services approved under the IECQ System including ISO 9000	-	-
ISO 129	1985	Technical drawings - Dimensioning - General principles, definitions, methods of execution and special indications	-	-
ISO 1101	1983	Technical drawings - Geometrical tolerancing - Tolerancing of form, orientation, location and run-out - Generalities, definitions, symbols, indications on drawings	-	-
CECC 00109	1974	Rule of procedure 9: Certified test records	-	-

1) To be published

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**NORME
INTERNATIONALE
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61076-7

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2000-07

**Connecteurs pour applications analogiques
en courant continu et à basse fréquence et
pour applications numériques utilisant des
débits élevés pour le transfert de données –**

Partie 7:

**Accessoires de sorties de câbles
sous assurance de la qualité, y compris
homologation et agrément de savoir-faire –
Spécification intermédiaire**

[SIST EN 61076-7:2001](https://standards.iteh.ai/catalog/standards/sist/ac3a6a71-6515-4eb6-afc2-9df8a990463a/sist-en-61076-7-2001)

<https://standards.iteh.ai/catalog/standards/sist/ac3a6a71-6515-4eb6-afc2-9df8a990463a/sist-en-61076-7-2001>

**Connectors for use in d.c., low-frequency
analogue and digital high speed data
applications –**

Part 7:

**Cable outlet accessories with assessed quality,
including qualification and capability approval –
Sectional specification**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR USE IN DC, LOW-FREQUENCY ANALOGUE
AND DIGITAL HIGH SPEED DATA APPLICATIONS –Part 7: Cable outlet accessories with assessed quality,
including qualification and capability approval –
Sectional specification

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 the 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 National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61076-7 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This International Standard has been submitted by CENELEC under the IEC fast track procedure and according to the Dresden agreement between the two organizations. This standard is not in line with Part 3 of the ISO/IEC Directives and not consistent with the existing specifications of the IEC 61076 series (generic specification IEC 61076-1 and sectional specifications such as IEC 61076-4). It is expected that SC 48B will revise this standard and bring it in line with Part 3 of the ISO/IEC Directives and with the IEC 61076 series.

The bilingual version (2000-11) replaces the English version.

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

FDIS	Report on voting
48B/863/FDIS	48B/911/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.

Annexes A, B, C, D and E form an integral part of this standard.

This part 7 constitutes the **sectional** specification in the IEC quality assessment system for electronic components (IECQ) for **cable outlet accessories**.

The QC number that appears on the front cover of this publication is the specification number of the IEC Quality Assessment System for Electronic Components (IECQ).

IEC 61076 consists of the following parts, under the general title: *Connectors for use in d.c., low-frequency analogue and digital high-speed data applications*:

Part 1: Generic specification

Part 2: Sectional specification – Circular connectors

Part 3: Sectional specification – Rectangular connectors

Part 4: Sectional specification – Printed board connector

Part 5: Sectional specification – In-line sockets

Part 6: Sectional specification – Loose part contacts

Part 7: Sectional specification – Cable outlet accessories

The committee has decided that the contents of this publication will remain unchanged until 2003. At this date, the publication will be

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

CONNECTORS FOR USE IN DC, LOW-FREQUENCY ANALOGUE AND DIGITAL HIGH SPEED DATA APPLICATIONS –

Part 7: Cable outlet accessories with assessed quality, including qualification and capability approval – Sectional specification

1 General

1.1 Scope

This part of IEC 61076 establishes uniform specifications, type test requirements and quality assessment procedures for cable outlet accessories as well as rules for the preparation of detail specifications for cable outlet accessories of assessed quality for connectors for frequencies below 3 MHz.

In the event of conflict between this sectional specification and the detail specification, the requirements of the detailed specification shall prevail.

NOTE When selecting an approved rear accessory and connector, guidance shall be sought from the manufacturer or ONS to ensure compatibility.

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1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61076. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 61076 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standard.

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

IEC 60068 (all parts), *Environmental testing*

IEC 60410, *Sampling plans and procedures for inspection by attributes*

IEC 60512 (all parts), *Electromechanical components for electronic equipment – Basic testing procedures and measuring methods*

QC 001002 (all parts), *IEC Quality Assessment System for Electronic Components (IECQ) – Rules of Procedure*

QC 001005, *Register of Firms, Products and Services approved under the IECQ System, including ISO 9000*

ISO 129:1985, *Technical drawings – Dimensioning – General principles, definitions, methods of execution and special indications*

ISO 1101:1983, *Technical drawings – Geometrical tolerancing – Tolerancing of form, orientation, location and run-out – Generalities, definitions, symbols, indications on drawings*

CECC 00109:1974, *Rule of procedure 9: Certified test records*

2 Technical

2.1 Terminology

The terminology used in, and applicable to, this specification is included in IEC 60050(581); IEC 60512 also contains applicable terms.

For the purpose of this specification, the following additional terms and definitions shall apply:

Backshell: Non-preferred term, use cable outlet.

Cable tie: A flexible strap or cord for securing a cable bundle to a cable outlet.

Coupling nut: An accessory or part of a component which secures the cable outlet to the body of the connector.

2.2 Classification into climatic categories

The cable outlet accessories are classified into climatic categories in accordance with the general rules given in IEC 60068-1.

The following preferred temperature ranges and severities of the damp heat, steady-state tests have been selected.

Table 1 – Climatic categories – Selected values

Climatic category	Temperature range	Damp heat, steady state in days	Identification code *
65/350/56	–65 °C to +350 °C	56	U
65/260/56	–65 °C to +260 °C	56	T
65/200/56	–65 °C to +200 °C	56	S
65/175/56	–65 °C to +175 °C	56	X
65/155/56	–65 °C to +155 °C	56	R
55/155/56	–55 °C to +155 °C	56	O
55/125/56	–55 °C to +125 °C	56	Y
55/125/21	–55 °C to +125 °C	21	P
40/100/21	–40 °C to +100 °C	21	N
40/100/10	–40 °C to +100 °C	10	M
25/085/21	–25 °C to + 85 °C	21	L
25/070/10	–25 °C to + 70 °C	10	K
10/070/04	–10 °C to + 70 °C	04	I

* Identification code to be used for IEC designation.

2.3 Material

The materials to be used shall be in accordance with the requirements of the detail specification. When dissimilar materials are employed in intimate contact with each other, adequate protection against corrosion shall be used.