
Connectors with assessed quality, for use in d.c., low frequency analogue and digital high-speed data applications - Part 1: Generic specification - (IEC 61076-1:1995)

Connectors with assessed quality, for use in d.c., low frequency analogue and in digital high-speed data applications -- Part 1: Generic specification - Capability approval

Steckverbinder mit bewerteter Qualität für Gleichspannungs- und Niederfrequenzanwendungen sowie digitale Anwendungen mit hoher Übertragungsrate - Teil 1: Fachgrundspezifikation - (Befähigungsanerkennung)

Connecteurs sous assurance de la qualité, pour utilisation dans le cadre d'applications analogiques en courant continu et à basse fréquence et dans le cadre d'applications numériques utilisant des débits élevés pour le transfert des données -- Partie 1: Spécification générique - Agrément de savoir-faire

Ta slovenski standard je istoveten z: EN 61076-1:1995

ICS:

31.220.10 Xcã ã Á cã } ã Æ Æ [] ^ \ ç ì ã Plug-and-socket devices.
Connectors

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Descriptors: Connectors under quality assessment, generic specification

English version

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and in digital high speed data applications
Part 1: Generic specification
(IEC 1076-1:1995)**

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Partie 1: Spécification générique
(CEI 1076-1:1995)

Gütebestätigte Steckverbinder für
Gleichspannungs- und
Niederfrequenzanwendungen sowie
digitale Anwendungen mit hoher
Übertragungsrate
Teil 1: Fachgrundspezifikation
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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, 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/363/DIS, future edition 1 of IEC 1076-1, 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 61076-1 on 1995-09-20.

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) 1996-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1996-07-01

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

Endorsement notice

The text of the International Standard IEC 1076-1:1995 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 50(581)	1978	International electrotechnical vocabulary Chapter 581: Electromechanical components for electronic equipment	-	-
IEC 68-1	1988	Environmental testing Part 1: General and guidance	-	-
+ A1	1992		EN 60068-1 ¹⁾	1994
IEC 410	1973	Sampling plans and procedures for inspection by attributes	-	-
IEC 512-1	1994	Electromechanical components for electronic equipment Basic testing procedures and measuring methods - Part 1: General	EN 60512-1	1994
IEC 512-2	1985	Part 2: General examination, electrical continuity and contact resistance tests, insulation tests and voltage stress tests	-	-
IEC 512-3	1976	Part 3: Current-carrying capacity tests	-	-
IEC 512-4	1976	Part 4: Dynamic stress tests	-	-
IEC 512-5	1992	Part 5: Impact tests (free components), static load tests (fixed components), endurance tests and overload test	-	-
IEC 512-6	1984	Part 6: Climatic tests and soldering tests	-	-
IEC 512-7	1993	Part 7: Mechanical operating tests and sealing tests	-	-
IEC 512-8	1993	Part 8: Connector tests (mechanical) and mechanical tests on contacts and terminations	-	-

1) EN 60068-1 also includes the corrigendum October 1988 to IEC 68-1.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 512-9	1992	Part 9: Miscellaneous tests	-	-
IEC 664-1	1992	Insulation coordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	-	-
IEC Guide 102	1989	Electronic components Specification structures for quality assessment (Qualification approval and capability approval)	-	-
IEC QC 001001 A2	1986 1994	Basic rules of the IEC Quality Assessment System for Electronic Components (IECQ)	-	-
IEC QC 001002 A2	1986 1994	Rules of procedure of the IEC Quality Assessment System for Electronic Components (IECQ)	-	-
IEC QC 001003 A2	1988 1994	Guidance documents	-	-
ISO 129	1985	Technical drawings Dimensioning - General principles, definitions, methods of execution and special indications	-	-
ISO 286-1	1988	ISO System of limits and fits Part 1: Bases of tolerances, deviations and fits	-	-
ISO 286-2	1988	Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts	-	-
ISO 1000	1992	SI units and recommendations for the use of their multiples and of certain other units	-	-
ISO 1101	1983	Technical drawings Geometrical tolerancing - Tolerancing of form, orientation, location and run-out Generalities, definitions, symbols, indications on drawings	-	-
ISO 1302	1992	Technical drawings Method of indicating surface texture	-	-

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pour utilisation dans le cadre d'applications
analogiques en courant continu et à basse
fréquence et dans le cadre d'applications
numériques utilisant des débits élevés
pour le transfert des données –

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Partie 1:

Spécification générique

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Connectors with assessed quality, for use
in d.c., low frequency analogue and in digital
high speed data applications –

Part 1:

Generic specification

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONNECTORS WITH ASSESSED QUALITY,
FOR USE IN DC, LOW FREQUENCY ANALOGUE AND
IN DIGITAL HIGH SPEED DATA APPLICATIONS -****Part 1: Generic 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 cooperation 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, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, 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.

International Standard IEC 1076-1 has been prepared by sub-committee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

This part 1 forms the generic specification in the IEC quality assessment system for electronic components (IECQ) for connectors.

The other parts form the sectional specifications, some being under consideration or in preparation:

- IEC 1076-2: Circular connectors
- IEC 1076-3: Rectangular connectors
- IEC 1076-4: Printed board connectors
- IEC 1076-5: Removable contacts
- IEC 1076-6: Under consideration

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

DIS	Report on voting
48B/363/DIS	48B/431/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.

Annex A forms an integral part of this standard.

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

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

Part 1: Generic specification

1 General information

1.1 Scope

This part of IEC 1076 establishes uniform specifications, testing requirements and quality assessment procedures for connectors.

This generic specification is applicable to a family of connectors for use in electronic and electrical equipment. Connectors designed for use at radio frequencies are not covered.

1.2 General considerations relating to specifications

This generic specification contains, or gives reference to, the terms, definitions, symbols, test methods and information relating to the inspection peculiar to connectors, and it also includes test sequences for quality assessment.

It shall be used in conjunction with relevant levels of specifications, with reference to IEC Guide 102: <https://standards.iteh.ai/catalog/standards/sist/832ec041-7325-4808-a78c-b92c8efca806/sist-en-61076-1-2002>

- sectional specifications;
- detail specifications, including one blank detail specification per sectional specification.

In the event of conflict between this generic specification and the sectional specification, the requirements of the sectional specification prevail.

1.2.1 Sectional specifications

Details appropriate to a particular subfamily of connectors are contained in the relevant sectional specification, e.g. printed board, circular, rectangular connectors and other connecting devices.

It shall contain a choice of all test methods and sequences, severities and preferred values for dimensions and characteristics which could be applicable to that subfamily.

The contents shall be derived from the generic specification.

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