SLOVENSKI STANDARD
SIST EN 60603-1:2002

01-september-2002

Connectors for frequencies below 3 MHz for use with printed boards - Part 1: Generic specification - General requirements and guide for the preparation of detail specifications, with assessed quality (IEC 60603-1:1991 + A1:1992)

Connectors for frequencies below 3 MHz for use with printed boards -- Part 1: Generic specification - General requirements and guide for the preparation of detail specifications, with assessed quality

Steckverbinder für gedruckte Schaltungen für Frequenzen unter 3 MHz -- Teil 1: Fachgrundspezifikation - Allgemeine Anforderungen und Leitfaden für die Erstellung von Bauartspezifikationen mit Qualitätsbewertung

Connecteurs pour fréquences inférieures à 3 MHz pour utilisation avec cartes imprimées -- Partie 1: Spécification générique - Prescriptions générales et guide de rédaction des spécifications particulières, avec assurance de la qualité

Ta slovenski standard je istoveten z: **EN 60603-1:1998**

ICS:

31.220.10	Vtiļ i in vtiļ nice, konektorji	Plug-and-socket devices. Connectors

SIST EN 60603-1:2002 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60603-1

February 1998

ICS 31.220.10

Descriptors: Electronic components, electric connections, printed-circuit cards, characteristics, general conditions, detail specifications, quality assurance, technical writing, instructions

English version

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This European Standard was approved by CENELEC on 1998-01-01. 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 the International Standard IEC 60603-1:1991 and its amendment 1:1992, prepared by SC 48B, Connectors, of IEC TC 48, Electromechanical components and mechanical structures for electronic equipment, was submitted to the formal vote and was approved by CENELEC as EN 60603-1 on 1998-01-01 without any modification.

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) 1998-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1998-12-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annexes A and ZA are normative and annex B is informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60603-1:1991 and its amendment 1:1992, was approved by CENELEC as a European Standard without any modification.

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.

Publication	Year	Title	EN/HD	Year
IEC 60027	series	Letter symbols to be used in electrical technology	HD 245	series
IEC 60050(581)	1978	International Electrotechnical Vocabulary (IEV) Chapter 581: Electromechanical components for electronic equipment	-	-
IEC 60068-1	1988	Environmental testing Part 1: General and guidance	EN 60068-1[1]	1994
IEC 60410	1973	Sampling plans and procedures for inspection by attributes	-	-
IEC 60512-1	1984[2]	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods Part 1: General	-	-
IEC 60512-2	1985	Part 2: General examination, electrical continuity and contact resistance tests, insulation tests and voltage stress tests	-	-
IEC 60512-3	1976	Part 3: Current-carrying capacity tests	-	-
IEC 60512-4	1976	Part 4: Dynamic stress tests	-	-
IEC 60512-5	1977	Part 5: Impact tests (free components), static load tests (fixed components), endurance tests and overload tests	-	-
IEC 60512-6	1984	Part 6: Climatic tests and soldering tests	-	-
IEC 60512-7	1988	Part 7: Mechanical operating tests and sealing tests	-	-

1) EN 60068-1 includes the corrigendum October 1988 and A1:1992 to IEC 60068-1.

2) IEC 60512-1:1994 is harmonized as EN 60512-1:1994.

Publication	Year	Title	EN/HD	Year
IEC 60512-8	1984	Part 8: Connector tests (mechanical) and mechanical tests on contacts and terminations	-	-
IEC 60617	series	Graphical symbols for diagrams	EN 60617	series
IEC QC 001002	1986	Rules of procedure of the IEC Quality Assessment System for Electronic Components (IECQ)	-	-
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	EN 20286-1	1993
ISO 286-2	1988	Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts	EN 20286-2	1993
ISO 1000	1981	SI units and recommendations for the use of their multiples and of certain other units	-	-

NORME INTERNATIONALE
INTERNATIONAL STANDARD

CEI
IEC
603-1

QC 010000
Deuxième édition
Second edition
1991–06

Connecteurs pour fréquences inférieures à 3 MHz pour utilisation avec cartes imprimées

Partie 1:
Spécification générique –
Prescriptions générales et guide de rédaction des spécifications particulières, avec assurance de la qualité

Connectors for frequencies below 3 MHz for use with printed boards

Part 1:
Generic specification –
General requirements and guide for the preparation of detail specifications, with assessed quality

Bureau central de la Commission Electrotechnique Internationale 3, rue de Varembé Genève Suisse

IEC
Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX U
PRICE CODE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR FREQUENCIES BELOW 3 MHz FOR USE WITH PRINTED BOARDS

Part 1: Generic specification – General requirements and guide for the preparation of detail specifications, with assessed quality

FOREWORD

1) 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.

2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.

3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

This part of International Standard IEC 603 has been prepared by Sub-Committee 48B: Connectors, of IEC Technical Committee No. 48: Electromechanical components for electronic equipment.

It forms the second edition of IEC 603-1 and supersedes the first edition issued in 1981.

The text of this part is based on the first edition and the following documents:

Six Months' Rule	Reports on Voting
48B(CO)160 48B(CO)187	48B(CO)168 48B(CO)195

Full information on the voting for the approval of this part can be found in the Voting Reports indicated in the above table.

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

CONNECTORS FOR FREQUENCIES BELOW 3 MHz FOR USE WITH PRINTED BOARDS

Part 1: Generic specification – General requirements and guide for the preparation of detail specifications, with assessed quality

SECTION 1 – SCOPE AND OBJECT

1 Scope and object

This part of IEC 603 is applicable to printed board connectors designed for use in equipment for telecommunication and electronic data processing and in electronic equipment or devices employing similar techniques. This generic specification shall be used in conjunction with the relevant detail specification(s).

Connectors essentially for applications at frequencies exceeding 3 MHz are not covered by this generic specification.

The object of this part of IEC 603 is to establish uniform specifications, type test requirements and quality assessment procedures for connectors for use with printed boards and to establish rules for the preparation of detail specifications for connectors of assessed quality.

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

SECTION 2 – GENERAL

2 Related documents

This generic specification shall be used in conjunction with the following publications. Units, graphic symbols and letter symbols shall be used whenever possible in accordance with the requirements of the publications listed below.

IEC 27, *Letter symbols to be used in electrical technology.*

IEC 50(581): 1978, *IEV - Chapter 581: Electromechanical components for electronic equipment.*

IEC 68-1: 1988, *Environmental testing - Part 1: General and guidance.*

IEC 410: 1973, *Sampling plans and procedures for inspection by attributes.*

IEC 512-1: 1984, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods. Part 1: General.*

IEC 512-2: 1985, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods - Part 2: General examination, electrical continuity*

IEC 512-3: 1976, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods - Part 3: Current-carrying capacity tests.*

IEC 512-4: 1976, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods - Part 4: Dynamic stress tests.*

IEC 512-5: 1977, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods - Part 5: Impact tests (free components), static load tests (fixed components), endurance tests and overload tests.*

IEC 512-6: 1984, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods - Part 6: Climatic tests and soldering tests.*

IEC 512-7: 1988, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods - Part 7: Mechanical operating tests and sealing tests.*

IEC 512-8: 1984, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods - Part 8: Connector tests (mechanical) and mechanical tests on contacts and terminations.*

IEC 617, *Graphical symbols for diagrams.*

QC 001002: 1986, *Rules of procedure of the IEC quality assessment system for electronic components (IECQ).*

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, *ISO system of limits and fits - Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts.*

ISO 1000: 1981, *SI units and recommendations for use of their multiples and of certain other units.*

2.1 *Terminology*

The terminology used in and applicable to this part of IEC 603 is included in IEC 50(581).

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

2.1.1 **type**: *Connectors within a particular sub-family, such as one-part connectors (edge-socket connectors), two-part connectors.*

2.1.2 **style**: *A particular connector within a type.*

2.1.3 **variant**: *Variations within a type and style, or within a group of related connectors.*