SLOVENSKI STANDARD
SIST EN 60130-17:2002

01-september-2002

Connectors for frequencies below 3 MHz - Part 17: Detail specification for interconnection devices which permit multi-directional mating, for use with rechargeable batteries (IEC 60130-17:1998)

Connectors for frequencies below 3 MHz -- Part 17: Detail specification for interconnection devices which permit multi-directional mating, for use with rechargeable batteries

Steckverbinder für Frequenzen unter 3 MHz -- Teil 17: Bauartspezifikation für Verbindungselemente für wiederaufladbare Batterien mit Steckmöglichkeiten in mehreren Richtungen

Connecteurs utilisés aux fréquences jusqu'à 3 MHz -- Partie 17: Spécification particulière des dispositifs d'interconnexion qui permettent un acouplement multidirectionnel, à utiliser avec des batteries rechargeables

Ta slovenski standard je istoveten z: **EN 60130-17:1999**

ICS:

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

SIST EN 60130-17:2002 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60130-17

June 1999

ICS 31.220.10

English version

Connectors for frequencies below 3 MHz
Part 17: Detail specification for interconnection devices which permit multi-directional mating, for use with rechargeable batteries
(IEC 60130-17:1998)

Connecteurs utilisés aux fréquences jusqu'à 3 MHz
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Steckverbinder für Frequenzen unter 3 MHz
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(IEC 60130-17:1998)

This European Standard was approved by CENELEC on 1999-05-01. 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

Ref. No. EN 60130-17:1999 E

Foreword

The text of the International Standard IEC 60130-17:1998, 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 60130-17 on 1999-05-01 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) 2000-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2002-08-01

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

Endorsement notice

The text of the International Standard IEC 60130-17:1998 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 60130-0	1970	Connectors for frequencies below 3 MHz Part 0: Guide to drawing information in detail specifications	-	-
IEC 60130-1	1988	Connectors for frequencies below 3 MHz Part 1: General requirements and measuring methods	-	-
IEC 60512-1	1994	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods Part 1: General	EN 60512-1	1994
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	1992	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	1993	Part 7: Mechanical operating tests and sealing tests	-	-
IEC 60512-8	1993	Part 8: Connector tests (mechanical) and mechanical tests on contacts and terminations	-	-
ISO 468	1982	Surface roughness - Parameters, their values and general rules for specifying requirements	-	-

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Connecteurs utilisés aux fréquences jusqu'à 3 MHz –

Partie 17: Spécification particulière des dispositifs d'interconnexion qui permettent un accouplement multidirectionnel, à utiliser avec des batteries rechargeables

Connectors for frequencies below 3 MHz –

Part 17: Detail specification for interconnection devices which permit multi-directional mating, for use with rechargeable batteries

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CONNECTORS FOR FREQUENCIES BELOW 3 MHz –

Part 17: Detail specification for interconnection devices which permit multi-directional mating, for use with rechargeable batteries

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 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 60130-17 has been prepared by subcommittee 48B: Connectors, of IEC technical committee 48: Electromechanical components and mechanical structures for electronic equipment.

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

FDIS	Report on voting
48B/652/FDIS	48B/658/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.

CONNECTORS FOR FREQUENCIES BELOW 3 MHz –

Part 17: Detail specification for interconnection devices which permit multi-directional mating, for use with rechargeable batteries

1 General

1.1 Scope

This part of IEC 60130 is a connector detail specification for a battery interconnection system for portable computers, cellular telephones and other electronic devices requiring power not to exceed 50 V d.c. SELV (Safety Extra Low Voltage).

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 60130. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 60130 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards

IEC 60130-0:1970, *Connectors for frequencies below 3 MHz – Part 0: Guide to drawing information in detail specifications*

IEC 60130-1:1988, *Connectors for frequencies below 3 MHz – Part 1: General requirements and measuring methods*

IEC 60512-1:1994, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 1: General*

IEC 60512-2:1985, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 2: General examination, electrical continuity and contact resistance tests, insulation resistance tests and voltage stress tests*

IEC 60512-3:1976, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 3: Current-carrying capacity tests*

IEC 60512-4:1976, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 4: Dynamic stress tests*

IEC 60512-5:1992, *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 60512-6:1984, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 6: Climatic tests and soldering tests*

IEC 60512-7:1993, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 7: Mechanical operating tests and sealing tests*

IEC 60512-8:1993, *Electromechanical components for electronic equipment; basic testing procedures and measuring methods – Part 8: Connector tests (mechanical) and mechanical tests on contacts and terminations*

ISO 468:1982, *Surface roughness – Parameters, their values and general rules for specifying requirements*

1.3 Ratings and characteristics

Rated voltage:	Maximum 50 V d.c.
Current rating:	4 A, 30 °C temperature rise
Insulation resistance:	1 000 MΩ
Climatic category:	30/070/10
Printed board thickness:	1,6 mm
Contact spacing:	5 mm

1.4 Marking

1.4.1 On each connector

Each connector shall have the identification of the number one contact position marked as indicated on the fixed connector in this detail specification.

Additional markings shall include the following information:

a) mark of origin (manufacturer's name or trade mark);

b) year and month (or week) of manufacture;

c) IEC type designation, according to clause 2.

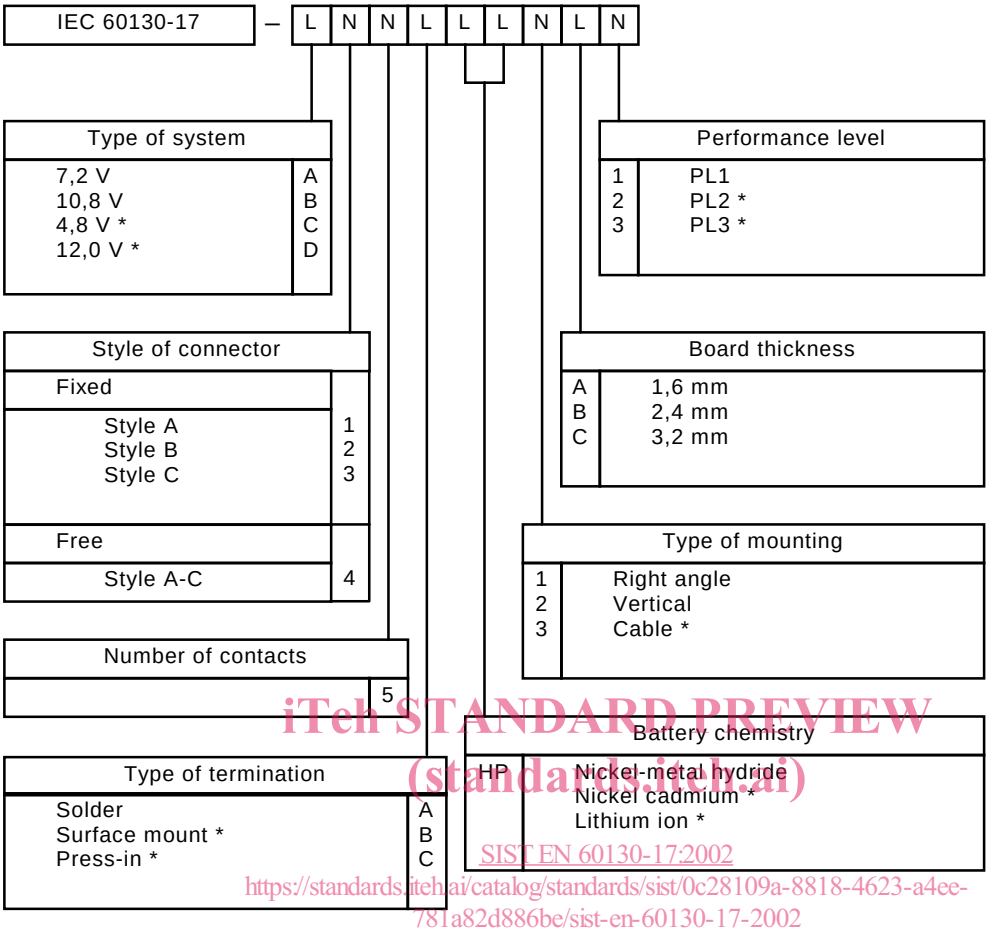
However, since the number of characters this requires may exceed the limitation imposed by computer processing systems, the manufacturer may use his own part number, providing that a cross-reference list is made available.

If space does not permit full marking, as much as possible of the information, in the order shown, shall be included.

1.4.2 On the package

The information specified in items a), b) and c) shall always be marked on the package.

2 IEC type designation



* Under consideration

Example: IEC 60130-17-A15AHP1A1

Five pole right-angle fixed connector with right-handed voltage key for through-hole solder termination to a 1,6 mm board, 7,2 V, nickel-metal hydride.