SLOVENSKI STANDARD

SIST EN 60998-2-1:2005

februar 2005

Povezovalne naprave v nizkonapetostnih tokokrogih za uporabo v gospodinjstvu in za podobne namene – 2-1. del: Posebne zahteve za samostojne povezovalne naprave z vijačnimi pritrdilnimi enotami (IEC 60998-2-1:2002, spremenjen)

Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units (IEC 60998-2-1:2002, modified)

ICS 29.120.20

Referenčna številka
SIST EN 60998-2-1:2005(en)

EUROPEAN STANDARD **EN 60998-2-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM April 2004

ICS 29.120.20 Supersedes EN 60998-2-1:1993

English version

Connecting devices for low-voltage circuits for household and similar purposes Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

(IEC 60998-2-1:2002, modified)

Dispositifs de connexion pour circuits basse tension pour usage domestique et analogue Partie 2-1: Règles particulières pour dispositifs de connexion en tant que parties séparées à organes de serrage à vis (CEI 60998-2-1:2002, modifiée)

Verbindungsmaterial für Niederspannungs-Stromkreise für Haushalt und ähnliche Zwecke Teil 2-1: Besondere Anforderungen für Verbindungsmaterial als selbständige Betriebsmittel mit Schraubklemmen (IEC 60998-2-1:2002, modifiziert)

This European Standard was approved by CENELEC on 2004-03-01. 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 60998-2-1:2004 E

Foreword

The text of the International Standard IEC 60998-2-1:2002, prepared by SC 23F, Connecting devices, of IEC TC 23, Electrical accessories, together with common modifications prepared by the CENELEC Reporting Secretariat SR 23F, was submitted to the formal vote and was approved by CENELEC as EN 60998-2-1 on 2004-03-01.

This European Standard supersedes EN 60998-2-1:1993.

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) 2005-03-01

– latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-03-01

This Part 2-1 is intended to be used in conjunction with EN 60998-1:2004.

It supplements or modifies the corresponding clauses in EN 60998-1, so as to convert it into the European Standard: Particular requirements for connecting devices as separate entities with screw-type clamping units.

Where a particular subclause of Part 1 is not mentioned in this Part 2-1, that subclause applies as far as is reasonable. Where this standard states “addition”, “modification” or “replacement”, the relevant text in Part 1 should be adapted accordingly.

In this standard,

a) the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- explanatory matter: in smaller roman type.

b) Subclauses and figures which are additional to those in Part 1 are numbered starting from 101; additional annexes are lettered AA, BB, etc.

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Endorsement notice

The text of the International Standard IEC 60998-2-1:2002 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

10.102 In Table 101, NOTE 1, **delete** "and for AWG conductors, on ASTM B172-71, ICEA Publication S-19-81, ICEA Publication S-66-524 and ICEA Publication S-65-516."

10.102 In Table 101, **delete** NOTE 2.

10.103 **Delete** the NOTE.

10.104 In Table 103, **delete** NOTE 1 and NOTE 2.

10.105 In Table 104, **delete** NOTE 1 and NOTE 2.

Annex AA **Delete** NOTE 2.

Annex DD **Delete** the whole annex.

Bibliography **Delete** the whole text.

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
60998-2-1

Deuxième édition
Second edition
2002-12

PUBLICATION GROUPÉE DE SÉCURITÉ
GROUP SAFETY PUBLICATION

Dispositifs de connexion pour circuits basse tension pour usage domestique et analogue –

Partie 2-1:
Règles particulières pour dispositifs de connexion en tant que parties séparées avec organes de serrage à vis

Connecting devices for low-voltage circuits for household and similar purposes –

Part 2-1:
Particular requirements for connecting devices as separate entities with screw-type clamping units

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTING DEVICES FOR LOW-VOLTAGE CIRCUITS FOR HOUSEHOLD AND SIMILAR PURPOSES –

Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

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.
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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 60998-2-1 has been prepared by subcommittee 23F: Connecting devices, of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition published in 1990, and constitutes a technical revision.

It has the status of a group safety publication in accordance with IEC Guide 104.

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

FDIS	Report on voting
23F/142/FDIS	23F/148/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.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This standard constitutes Part 2-1 of the IEC 60998 series, published under the general title *Connecting devices for low voltage circuits for household and similar purposes.* This series consists of Part 1, devoted to general requirements, and various Parts 2, devoted to particular requirements.

At the moment of the publication of this part, the following parts had already been published.

Part 1: General requirements

Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units

Part 2-3: Particular requirements for connecting devices as separate entities with insulation piercing clamping units

Part 2-4: Particular requirements for twist-on connecting devices

Part 2-5: Particular requirements for connecting boxes (junction and/or tapping) for terminals or connecting devices.

This Part 2-1 is intended to be used in conjunction with IEC 60998-1. It was established on the basis of the second edition (2002) of that standard.

It supplements or modifies the corresponding clauses in IEC 60998-1,so as to convert that publication into the IEC standard: Particular requirements for connecting devices as separate entities with screw-type clamping units.

Where a particular subclause of Part 1 is not mentioned in this Part 2-1, that subclause applies as far as is reasonable. Where this standard states "addition", "modification" or "replacement", the relevant requirements, test specification or explanatory matter in Part 1 should be adapted accordingly.

In this standard

a) the following print types are used:
   - requirements proper: in roman type;
   - *test specifications: in italic type;*
   - explanatory matter: in smaller roman type.

b) Subclauses and figures which are additional to those in Part 1 are numbered starting from 101; additional annexes are lettered AA, BB, etc.

The committee has decided that the contents of this publication will remain unchanged until 2010. At this date, the publication will be

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

CONNECTING DEVICES FOR LOW-VOLTAGE CIRCUITS FOR HOUSEHOLD AND SIMILAR PURPOSES –

Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

1 Scope

This clause of Part 1 is applicable except as follows:

Addition:

This standard applies to connecting devices with screw-type clamping units primarily suitable for connecting unprepared conductors.

2 Normative references

This clause of Part 1 is applicable.

3 Definitions

This clause of Part 1 is applicable except as follows:

Additional definitions:

3.101
screw-type terminal
terminal for the connection of two or more conductors by means of screw-type clamping units

3.101.1
pillar terminal
terminal in which the conductors are inserted into a hole or cavity, where they are clamped under the shank of a screw or screws. The clamping pressure may be applied directly by the shank of the screw or through an intermediate part to which pressure is applied by the shank of the screw

NOTE Examples of pillar terminals are given in Figure 101.

3.101.2
screw terminal
terminal in which the conductors are clamped under the head of one or more screws. The clamping pressure may be applied directly by the head of a screw or through an intermediate part, such as a washer, a clamping plate or an anti-spread device

NOTE Examples of screw terminals are given in Figure 102.