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

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ICS 29.120.20

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

NORME EUROPÉENNE

EUROPÄISCHE NORM April 2004

ICS 29.120.20 Supersedes EN 60998-2-2:1993

English version

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

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

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

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

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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

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Ref. No. EN 60998-2-2:2004 E

Foreword

The text of the International Standard IEC 60998-2-2:2002, 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 60998-2-2 on 2004-03-01.

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

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 2-2 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 screwless-type clamping units.

Where a particular subclause of Part 1 is not mentioned in this Part 2-2, 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.

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In this standard,

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   - *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.

_____

Endorsement notice

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

COMMON MODIFICATIONS

10.103 In Table 101, **delete** NOTE 1.

10.103 In Table 101, NOTE 2, **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."

10.105 In Table 102, **delete** NOTE 1 and NOTE 2.

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

14.101 In Table 104, **delete** the NOTE.

Annex BB **Delete** the whole annex.

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NORME INTERNATIONALE
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CEI
IEC
60998-2-2

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

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Part 2-2: Particular requirements for connecting devices as separate entities with screwless-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 2-2: Particular requirements for connecting devices as separate entities with screwless-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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International Standard IEC 60998-2-2 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 1991 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/143/FDIS	23F/149/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 2-2 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 2-2 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 screwless-type clamping units.*

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Where a particular subclause of Part 1 is not mentioned in this Part 2-2, 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.

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

1 Scope

This clause of Part 1 is applicable.

Addition:

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

In this standard, screwless-type terminals are referred to as terminals.

NOTE This standard does not include insulation piercing connecting devices (IEC 60998-2-3), twist-on connecting devices (IEC 60998-2-4) and flat, quick-connect terminations (IEC 60998-2-5).

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2 Normative references

This clause of Part 1 is applicable.

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3 Definitions

This clause of Part 1 is applicable except as follows:

Addition:

3.101
screwless-type terminal
terminal for the connection and subsequent disconnection of two or more conductors, the connection being made directly or indirectly by means of springs, wedges, or the like

NOTE Examples of screwless-type terminals are given in Figure 102.

3.101.1
universal terminal
terminal for the connection and disconnection of all types of conductors (rigid and flexible)

3.101.2
non-universal terminal
terminal for the connection and disconnection of a certain kind of conductor only (for example, solid conductors only or rigid [solid and stranded] conductors only)