
Povezovalne naprave v nizkonapetostnih tokokrogih za uporabo v gospodinjstvu in za podobne namene – 2-3. del: Posebne zahteve za samostojne povezovalne naprave z izolacijo s prebodnimi pritrdilnimi enotami (IEC 60998-2-3:2002, spremenjen)

Connecting devices for low-voltage circuits for household and similar purposes - Part 2-3: Particular requirements for connecting devices as separate entities with insulating piercing clamping units (IEC 60998-2-3:2002, modified)

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English version

**Connecting devices for low-voltage circuits
for household and similar purposes
Part 2-3: Particular requirements for connecting devices
as separate entities with insulation-piercing clamping units
(IEC 60998-2-3:2002, modified)**

Dispositifs de connexion
pour circuits basse tension
pour usage domestique et analogue
Partie 2-3: Règles particulières
pour dispositifs de connexion
en tant que parties séparées
avec organes de serrage
à perçage d'isolant
(CEI 60998-2-3:2002, modifiée)

Verbindungsmaterial
für Niederspannungs-Stromkreise
für Haushalt und ähnliche Zwecke
Teil 2-3: Besondere Anforderungen
für Verbindungsmaterial
als selbständige Betriebsmittel
mit Schneidklemmstellen
(IEC 60998-2-3:2002, modifiziert)

<https://standards.iteh.ai/catalog/standards/sist/031aac4-2f30-4e78-a4fa-95bf07daa509/sist-en-60998-2-3-2005>

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

Foreword

The text of the International Standard IEC 60998-2-3:2002, 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 60998-2-3 on 2004-03-01.

This European Standard supersedes EN 60998-2-3:1993.

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 2-3 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 insulation piercing clamping units.

Where a particular subclause of Part 1 is not mentioned in this Part 2-3, 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, the following print types are used:

- requirements proper: in roman type; [SIST EN 60998-2-3:2005](https://standards.iteh.ai/catalog/standards/sist/031aaac4-2f30-4e78-a4fa-95bf07daa509/sist-en-60998-2-3-2005)
- test specifications: in italic type; <https://standards.iteh.ai/catalog/standards/sist/031aaac4-2f30-4e78-a4fa-95bf07daa509/sist-en-60998-2-3-2005>
- explanatory matter: in smaller roman type.

Endorsement notice

The text of the International Standard IEC 60998-2-3:2002 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

- 10.102** In Table 101, **delete** NOTE 1.
- 10.102** 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."
- 10.106** In Table 103, **delete** NOTE 1 and NOTE 2.
- 10.107.1** In Table 104, **delete** NOTE 1 and NOTE 2.
- Annex BB** **Delete** the whole annex.

Annex ZA of Part 1 is applicable except as follows:

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Annex ZA
(standards.iteh.ai)
 (normative)

**Normative references to international publications
 with their corresponding European publications**

Addition:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60227 ¹⁾	Series	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V	-	-
IEC 60245 ²⁾	Series	Rubber insulated cables - Rated voltages up to and including 450/750 V	-	-

¹⁾ The HD 21 series, which is related to, but not directly equivalent with the IEC 60227 series, applies instead.

²⁾ The HD 22 series, which is related to, but not directly equivalent with the IEC 60245 series, applies instead.

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STANDARD

60998-2-3

Deuxième édition
Second edition
2002-12

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GROUP SAFETY PUBLICATION

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

**Partie 2-3:
Règles particulières pour dispositifs
de connexion en tant que parties séparées
avec organes de serrage à perçage d'isolant
(standards.iteh.ai)**

**Connecting devices for low-voltage circuits
for household and similar purposes –**
<https://standards.iteh.ai/standards/iec/60998-2-3-2005>
95bf07daa509/sist-en-60998-2-3-2005

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

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

**Part 2-3: Particular requirements for connecting
devices as separate entities with
insulation-piercing 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.
- 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 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	RVD
23F/144/FDIS	23F/150/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 2-3 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 2-3 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 insulation piercing 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 requirements, test specification or explanatory matter in Part 1 should be adapted accordingly.

In this standard, the following print types are used:

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

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

1 Scope

This clause of Part 1 is applicable except as follows:

Addition:

This standard applies to connecting devices with insulation piercing clamping units primarily suitable for connecting insulated unprepared conductors.

In the connecting operation the insulation of the conductor is pierced, bored through, cut through, removed, displaced or made ineffective in some other manner at the point or points of contact.

NOTE In the text of this standard, connecting devices with insulation piercing clamping units are referred to as IPCDs (insulation-piercing connecting devices).

2 Normative references

This clause of Part 1 is applicable except as follows:

Addition:

IEC 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*

IEC 60245 (all parts), *Rubber insulated cables*

3 Definitions

This clause of Part 1 is applicable except as follows:

Additional definitions:

3.101 insulation-piercing connecting device IPCD

connecting device for the connection and possible disconnection of one conductor or the interconnection of two or more conductors, the connection being made by piercing, boring through, cutting through, removing, displacing or making ineffective in some other manner the insulation of the conductor(s) without previous stripping

NOTE 1 The removal of the sheath of the cable, if necessary, is not considered as a previous stripping.

NOTE 2 Examples of IPCDs are given in Figure 103.