

**Madalpingeahelate liiteseadised majapidamis- ja muuks  
taoliseks kasutuseks. Osa 2-1: Erinõuded  
kraviklemmidega eraldi liiteseadistele**

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

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60998-2-1:2001 sisaldab Euroopa standardi EN 60998-2-1:1993 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 16.04.2001 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on .

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60998-2-1:2001 consists of the English text of the European standard EN 60998-2-1:1993.

This standard is ratified with the order of Estonian Centre for Standardisation dated 16.04.2001 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text .

The standard is available from Estonian standardisation organisation.

ICS 29.120.30

### Standardite reprodutseerimis- ja levitamise õigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:  
Aru 10 Tallinn 10317 Eesti; [www.evs.ee](http://www.evs.ee); Telefon: 605 5050; E-post: [info@evs.ee](mailto:info@evs.ee)

### Right to reproduce and distribute belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:  
Aru str 10 Tallinn 10317 Estonia; [www.evs.ee](http://www.evs.ee); Phone: 605 5050; E-mail: [info@evs.ee](mailto:info@evs.ee)

UDC 621.315.684 : 621.315.3 : 621.316.172

Descriptors: Low voltage equipment, home electrical installations, connecting equipment, screw-type clamping units, characteristics, tests

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 998-2-1 : 1990, 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 998-2-1 : 1990, modifiée)

Verbindungsmaterial für Niederspannungs-Stromkreise für Haushalt und ähnliche Zwecke  
Teil 2-1: Besondere Anforderungen für Verbindungsmaterial als selbständige Betriebsmittel mit Schraubklemmen  
(IEC 998-2-1 : 1990, modifiziert)

This European Standard was approved by CENELEC on 9 March 1993. 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, 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 CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 998-2-1 : 1990 could be accepted without textual changes, has shown that some common modifications were necessary for the acceptance as a European Standard.

The reference document, together with the common modifications prepared by the CENELEC Reporting Secretariat SR 23F, was submitted to the CENELEC members for formal vote in August 1992.

The text of the draft was approved by CENELEC on 1993-03-09. The following dates were fixed:

- latest date of publication  
of an identical national  
standard (dop) 1994-03-01
- latest date of withdrawal  
of conflicting standards (dow) 1994-03-01

For products which have complied with the relevant national standard before 1994-03-01 as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1999-03-01.

This Part 2-1 is intended to be used in conjunction with EN 60998-1, *Connecting devices for low voltage circuits for household and similar purposes, Part 1: General requirements*.

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

Subclauses and figures which are in addition to those in Part 1 are numbered starting from 101, additional annexes are lettered AA, BB, etc. Annexes added by CENELEC are lettered ZA, ZB, etc.

Annexes designated 'normative' are part of the body of the standard. Annexes designated 'informative' are given only for information. In this standard, annexes AA, BB and ZA are normative, annex CC is informative.

Where reference is made to other international or harmonized standards, the edition of that standard quoted in annex ZA is applicable.

NOTE. In this document, the following print types are used:

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

## CONTENTS

	Page
<b>Clause</b>	
1 Scope .....	4
2 Normative references .....	4
3 Definitions .....	4
4 General .....	5
5 General notes on tests .....	5
6 Main characteristics .....	5
7 Classification .....	6
8 Marking .....	6
9 Protection against electric shock .....	6
10 Connection of conductors .....	6
11 Construction .....	12
12 Resistance to ageing, to humidity conditions, to ingress of solid objects and to harmful ingress of water .....	13
13 Insulation resistance and electric strength .....	13
14 Mechanical strength .....	14
15 Temperature rise .....	14
16 Resistance to heat .....	14
17 Creepage distances, clearances and distances through sealing compound .....	14
18 Resistance of insulating material to abnormal heat and fire .....	14
19 Resistance of insulating material to tracking .....	14
<b>FIGURES</b> .....	15
<b>ANNEXES (normative)</b>	
AA - Rated connecting capacity and corresponding gauges .....	19
BB - Number of sets of three samples to be used for the tests and sequences listed for each set .....	20
ZA (normative) - Other international publications quoted in this standard with the references of the relevant European publications .....	23
<b>ANNEX (informative)</b>	
CC .....	21
DD Deleted	

## 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

NOTE: Other international publications quoted in this standard are listed in annex ZA (normative).

#### 3 Definitions

This clause of Part 1 is applicable except as follows:

*Additional definitions:*

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

**3.101.1 pillar terminal:** A 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.

Examples of pillar terminals are given in figure 101.

**3.101.2 screw terminal:** A 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.