



National Standards Authority of Ireland

STANDARD

**I.S. EN 60998-1:2004**

ICS 29.120.20

**CONNECTING DEVICES FOR LOW-VOLTAGE  
CIRCUITS FOR HOUSEHOLD AND SIMILAR  
PURPOSES PART 1: GENERAL  
REQUIREMENTS. (IEC 60998-1:2002,  
MODIFIED)**

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EUROPEAN STANDARD

**EN 60998-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2004

ICS 29.120.20

Supersedes EN 60998-1:1993 + A1:2001

English version

**Connecting devices for low-voltage circuits  
for household and similar purposes  
Part 1: General requirements  
(IEC 60998-1:2002, modified)**

Dispositifs de connexion  
pour circuits basse tension  
pour usage domestique et analogue  
Partie 1: Règles générales  
(CEI 60998-1:2002, modifiée)

Verbindungsmaterial  
für Niederspannungs-Stromkreise  
für Haushalt und ähnliche Zwecke  
Teil 1: Allgemeine Anforderungen  
(IEC 60998-1:2002, 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**

## Foreword

The text of the International Standard IEC 60998-1:2002, 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 60998-1 on 2004-03-01.

This European Standard supersedes EN 60998-1:1993 + A1:2001.

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

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.

Annexes ZA and ZB have been added by CENELEC.

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## Endorsement notice

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

### COMMON MODIFICATIONS

- |                |  |
|----------------|--|
| <b>1</b>       | In the first paragraph, <b>delete</b> ", and equivalent AWG conductors". |
| <b>6.2</b>     | <b>Delete</b> NOTE 1.  |
| <b>8.3</b>     | <b>Delete</b> the NOTE.  |
| <b>11.6</b>    | <b>Delete</b> ", or equivalent AWG conductors".                          |
| <b>15.4</b>    | <b>Delete</b> the NOTE.  |
| <b>Annex B</b> | <b>Delete</b> the whole annex.   |
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## Annex ZA (normative)

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

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-32	1975	Basic environmental testing procedures Part 2: Tests - Test Ed: Free fall (Procedure 1)	EN 60068-2-32 <sup>1)</sup>	1993
IEC 60068-2-75	1997	Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997
IEC 60112	1979	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions	HD 214 S2 <sup>2)</sup>	1980
IEC 60228 (mod)	1978	Conductors of insulated cables - First supplement: Guide to the dimensional limits of circular conductors	HD 383 S2 <sup>3)</sup>	1986
IEC 60344	1980	Guide to the calculation of resistance of plain and coated copper conductors of low-frequency cables and wires	-	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60695-2-10	2000	Fire hazard testing Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	EN 60695-2-10	2001
IEC 60695-10-2	1995 <sup>4)</sup>	Part 10-2: Guidance and test methods for the minimization of the effects of abnormal heat on electrotechnical products involved in fires - Method for testing products made from non-metallic materials for resistance to heat using the ball pressure test	-	-

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<sup>1)</sup> EN 60068-2-32:1993 includes A2:1990 to IEC 60068-2-32:1975.

<sup>2)</sup> HD 214 S2:1980 is superseded by EN 60112:2003, which is based on IEC 60112:2003.

<sup>3)</sup> HD 383 S2:1986 is based on IEC 60228:1978 + supplement A:1982, modified.

<sup>4)</sup> IEC 60695-10-2 is superseded by IEC 60695-10-2:2003, which is harmonized as EN 60695-10-2:2003.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61032	1997	Protection of persons and equipment by enclosures - Probes for verification	EN 61032	1998
ISO 1456	1988	Metallic coatings - Electrodeposited coatings of nickel plus chromium and of copper plus nickel plus chromium	-	-
ISO 2081	1986	Metallic coatings - Electroplated coatings of zinc on iron or steel	-	-
ISO 2093	1986	Electroplated coatings of tin - Specification and test methods	-	-

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## Annex ZB (normative)

### Special national conditions

**Special national condition:** National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.

NOTE If it affects harmonization, it forms part of the European Standard.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

<u>Clause</u>	<u>Special national condition</u>
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#### 6.2 United Kingdom

**Replace** the entire subclause by:

**6.2** The standard rated connecting capacities are 0,2 mm<sup>2</sup>, 0,34 mm<sup>2</sup>, 0,5 mm<sup>2</sup>, 0,75 mm<sup>2</sup>, 1 mm<sup>2</sup>, 1,25 mm<sup>2</sup>, 1,5 mm<sup>2</sup>, 2,5 mm<sup>2</sup>, 4 mm<sup>2</sup>, 6 mm<sup>2</sup>, 10 mm<sup>2</sup>, 16 mm<sup>2</sup>, 25 mm<sup>2</sup> and 35 mm<sup>2</sup>.

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