



BSI Standards Publication

Devices for the connection of luminaires for household and similar purposes

Part 1: General requirements

National foreword

This British Standard is the UK implementation of EN 61995-1:2008+A11:2021. It is derived from IEC 61995-1:2005, including amendment 1:2016. It supersedes BS EN 61995-1:2008+A1:2017, which will be withdrawn on 22 March 2024.

The text of IEC amendment A1:2016 has been provided in its entirety at the beginning of this document. BSI's policy of providing consolidated content remains unchanged; however, in the interest of expediency, in this instance BSI have chosen to collate the relevant content at the beginning of this document.

The CENELEC common modifications have been implemented at the appropriate places in the text. The start and finish of each common modification is indicated in the text by tags **[C]** **[C]**.

The UK participation in its preparation was entrusted to Technical Committee PEL/23, Electrical accessories.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Date	Text affected
31 March 2018	Implementation of IEC amendment 1:2016 with CENELEC endorsement A1:2017
31 July 2021	Implementation of CENELEC amendment A11:2021: replacement of Annexes ZA and ZB and addition of Annex ZZ

EUROPEAN STANDARD

EN 61995-1:2008+A11

NORME EUROPÉENNE

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June 2021

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English version

**Devices for the connection of luminaires
for household and similar purposes -
Part 1: General requirements
(IEC 61995-1:2005, modified)**

Dispositifs de connexion pour luminaires
pour usage domestique et analogue -
Partie 1: Exigences générales
(CEI 61995-1:2005, modifiée)

Betriebsmittel für den Anschluss von
Leuchten für Haushalt
und ähnliche Zwecke -
Teil 1: Allgemeine Anforderungen
(IEC 61995-1:2005, modifiziert)

This European Standard was approved by CENELEC on 2008-04-01. 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.

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European foreword

The text of the International Standard IEC 61995-1:2005, prepared by SC 23B, Plugs, socket-outlets and switches, of IEC TC 23, Electrical accessories, together with common modifications prepared by the Technical Committee CENELEC TC 23BX, D.C. plugs and socket outlets and switches for household and similar fixed electrical installations, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 61995-1 on 2008-04-01.

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) 2009-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2013-04-01

Annexes ZA and ZB have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61995-1:2005 was approved by CENELEC as a European Standard with agreed common modifications as given below.

Foreword to amendment A1

The text of document 23B/1208/FDIS, future IEC 61995-1:2005/A1, prepared by SC 23B "Plugs, socket-outlets and switches", of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61995-1:2008/A1:2017.

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-04-21

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Endorsement notice

The text of the International Standard IEC 61995-1:2005/A1:2016 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A11

This document (EN 61995-1:2008/A11:2021) has been prepared by CLC/TC 23BX "Switches, boxes and enclosures for household and similar purposes, plugs and socket outlet for D.C."

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-03-22
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2024-03-22

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For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.



IEC 61995-1

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

**Devices for the connection of luminaires for household and similar purposes –
Part 1: General requirements**

**Dispositifs de connexion pour luminaires pour usage domestique et analogue –
Partie 1: Exigences générales**

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FOREWORD

This amendment has been prepared by subcommittee 23B: Plugs, socket-outlets and switches, of IEC technical committee 23: Electrical accessories.

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

FDIS	Report on voting
23B/1208/FDIS	23B/1212/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

1 Scope

Replace the first two paragraphs with the following new paragraphs:

This part of IEC 61995 applies to devices for the connection of luminaires (DCL) intended for household and similar purposes, for the electrical connection of fixed luminaires of class I or class II to final circuits rated at not more than 16 A without providing a mechanical support for the luminaire. DCLs are intended for use according to their IP rating as specified in IEC 60529.

Outlets have an earthing contact and a rated current of 6 A. Plugs have a rated current of 6 A.

3 Terms and definitions

Insert, between 3.6 and 3.7, the following new entry 3.20:

3.20

DCL temporary lampholder

independent lampholder designed in order to be temporarily connected to a DCL outlet, in compliance with the corresponding standards, and provided with a DCL rewirable plug (2P + E) for future connection of a luminaire

8.1

Replace NOTE 1 with the following new paragraph:

The additional markings shall be put on the DCL outlet. In addition, they can be given on the packaging unit and/or in an instruction sheet which accompanies the DCL outlet.

Replace "NOTE 2" with "NOTE".

8.2

Replace the NOTE with the following new paragraph:

The additional markings shall be put either on the DCL plug or on the packaging unit, and/or given in an instruction sheet which accompanies the DCL plug.

11.4

Replace the second paragraph with the following new paragraph:

"Compliance is checked by the following test after the tests of Clauses 18 and 19:"

Replace the third paragraph with the following new paragraph::

A current derived from an a.c. source having a no-load voltage not exceeding 12 V and equal to 1,5 times rated current is passed between the earthing terminal and each of the accessible metal parts in turn, and for DCLs with earthing contacts between the DCL outlet earthing terminal and the DCL plug earthing terminal.

12.1 General

Replace Table 1 with the following new table:

Table 1 – Connection of copper conductors

Accessory		Terminal	Rigid (solid & stranded conductors) ^a	Flexible conductors
DCL outlet	Floating	Line, neutral and earth terminals	From 1 × 1,0 mm ² up to 2 × 2,5 mm ² inclusive	From 1 × 1,0 mm ² up to 2 × 2,5 mm ² inclusive
	Fixed	Line, neutral and earth terminals	From 1 × 1,0 mm ² up to 2 × 2,5 mm ² inclusive	From 1 × 1,0 mm ² up to 2 × 2,5 mm ² inclusive
		Loop terminal (when fitted)	From 2 × 1,0 mm ² up to 2 × 2,5 mm ² inclusive	From 2 × 1,0 mm ² up to 2 × 2,5 mm ² inclusive
DCL plug		Line, neutral and earth terminals (when fitted)	From 1 × 0,5 mm ² up to 1 × 1,5 mm ² inclusive	From 1 × 0,5 mm ² up to 1 × 1,5 mm ² inclusive
NOTE 1 In the following countries, only loop terminals able to connect 3 × 2,5 mm ² conductors are allowed: GB.				
NOTE 2 In the following countries, DCL outlet terminals able to connect conductors up to 2 × 1,5 mm ² maximum are also allowed: FR				
^a The use of flexible conductors of the same cross sectional area is permitted.				

13.6.2

Add, in Table 9, first column, last row, the words "and clearances" after "creepage distances".

20 Force necessary to insert and withdraw the plug

Replace the existing text with the following new text:

The construction of DCLs shall allow the easy insertion and withdrawal of the plug, but prevent the inadvertent disengagement of plug and outlet in normal use.

Compliance is checked by the following test:

A previously untested specimen of the DCL plug and DCL outlet and a specimen having previously completed the tests of Clause 19 are tested.

All pins are wiped free from grease before use.

Each DCL outlet is fixed to a suitable flat surface.

Each DCL plug, in turn, is inserted and withdrawn from each DCL outlet without the effect of any locking means and the force required to perform each movement is measured.

The force required to insert or withdraw the plug shall not exceed 50 N.

At a force of 2 N the plug shall not come out.

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DEVICES FOR THE CONNECTION OF LUMINAIRES FOR HOUSEHOLD AND SIMILAR PURPOSES –

Part 1: General requirements

1 Scope

☐ This standard applies to devices for the connection of luminaires (DCL) intended for household and similar purposes, for the electrical connection of fixed luminaires of class I or class II to final circuits rated at not more than 16 A without providing a mechanical support for the luminaire. DCLs are intended for use according to their IP rating per EN 60529.

Outlets have an earthing contact and a rated current of 6 A, plugs are rated at 6 A.

The rated voltage is 250 V at 50 Hz. ☐

NOTE 1 This standard does not cover integrated DCL-plugs (under consideration).

This standard can also be applied to types other than those with standardised interface.

☐ NOTE 2 Void. ☐

DCL plugs and DCL outlets complying with this standard are suitable for use under the following conditions:

- an ambient temperature not normally exceeding 25 °C, but occasionally reaching 35 °C;
NOTE 3 The effect of the heat generated by the luminaire may affect the ambient temperature local to the DCL.
- a temperature not exceeding 70 °C at the terminals of the DCL outlet including the effect of heat generated by the luminaire and the passage of current.

NOTE 4 The requirements and tests of this standard may also be used as a guide when testing DCL's which have different interface configurations or ratings.

2 Normative references

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.

IEC 60068-2-32:1975, *Environmental testing – Part 2: Tests – Test Ed: Free fall*

IEC 60068-2-75:1997, *Environmental testing – Part 2: Tests – Test Eh: Hammer test*

IEC 60112, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*