



**BSI Standards Publication**

# **Boxes and enclosures for electrical accessories for household and similar fixed electrical installations**

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Part 1: General requirements

## National foreword

This British Standard is the UK implementation of EN IEC 60670-1:2021+A11:2021. It is derived from IEC 60670-1:2015. It supersedes BS EN 60670-1:2005+A1:2013, which will be withdrawn on 9 April 2023.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to text carry the number of the amendment. For example, text altered by CENELEC amendment A11 is indicated by A11 A11.

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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**Amendments/corrigenda issued since publication**

Date

Text affected

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60670-1:2021+A11**

April 2021

ICS 29.120.10

Supersedes EN 60670-1:2005, EN 60670-1:2005/IS1:2009 and all of its amendments and corrigenda (if any)

English Version

**Boxes and enclosures for electrical accessories for household  
and similar fixed electrical installations - Part 1: General  
requirements  
(IEC 60670-1:2015)**

Boîtes et enveloppes pour appareillage électrique pour  
installations électriques fixes pour usages domestiques et  
analogues - Partie 1: Exigences générales  
(IEC 60670-1:2015)

Dosen und Gehäuse für Installationsgeräte für Haushalt  
und ähnliche ortsfeste elektrische Installationen - Teil 1:  
Allgemeine Anforderungen  
(IEC 60670-1:2015)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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## European foreword

This document (EN IEC 60670-1:2021) consists of the text of IEC 60670-1:2015 prepared by SC 23B "Plugs, socket-outlets and switches" of IEC/TC 23 "Electrical accessories".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-10-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-04-09

This document supersedes EN 60670-1:2005 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of EN IEC 60670-1:2021/A11:2021.

## Endorsement notice

The text of the International Standard IEC 60670-1:2015 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60670 (series)	NOTE	Harmonized as EN 60670 (series)
IEC 60670-21	NOTE	Harmonized as EN 60670-21
IEC 60670-22	NOTE	Harmonized as EN 60670-22
IEC 60670-23	NOTE	Harmonized as EN 60670-23
IEC 60670-24	NOTE	Harmonized as EN 60670-24
IEC 62444	NOTE	Harmonized as EN 62444
ISO 1456	NOTE	Harmonized as EN ISO 1456
ISO 2081	NOTE	Harmonized as EN ISO 2081

## Foreword to amendment A11

This document (EN IEC 60670-1:2021/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 (dop) 2021-10-16  
to be implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2023-04-09  
standards conflicting with this document  
have to be withdrawn

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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

## Annex ZA (normative)

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

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-75	1997	Environmental testing - Part 2-75: Tests -EN 60068-2-75 Test Eh: Hammer tests		2014
IEC 60112	2003	Method for the determination of the proofEN 60112 and the comparative tracking indices of solid insulating materials		2003
IEC 60423	2007	Conduit systems for cable management -EN 60423 Outside diameters of conduits for electrical installations and threads for conduits and fittings		2007
IEC 60529	1989	Degrees of protection provided byEN 60529 enclosures (IP Code)		1991
			+EN 60529:1991 1993 /corrigendum May 1993	
IEC 60529:1989/A1	1999		EN 60529:1991/A1	2000
IEC 60529:1989/A2	2013		EN 60529:1991/A2	2013
IEC 60695-2-11	2000	Fire hazard testing - Part 2-11:EN 60695-2-11 Glowing/hot-wire based test methods - Glow-wire flammability test method for end products		2014
IEC 60695-10-2	2003	Fire hazard testing - Part 10-2: AbnormalEN 60695-10-2 heat - Ball pressure test		2014
IEC 60981	2004	Extra-heavy duty electrical rigid steel- conduits		-
IEC 61032	1997	Protection of persons and equipment byEN 61032 enclosures - Probes for verification		1998
IEC 61140	2001	Protection against electric shock - CommonEN 61140 aspects for installation and equipment		2002
IEC 61140:2001/A1	2004		EN 61140:2002/A1	2006
(mod)				
ISO/IEC Guide 51	-	Safety aspects - Guidelines for their- inclusion in standards		-

## 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 / Harmonization Document.

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

#### Clause      Special national condition

##### 1      **Norway**

Replace second paragraph as follows:

Boxes and enclosures complying with this standard are suitable for use at ambient temperatures not normally exceeding +40 °C, but their average over a period of 24 h does not exceed +35 °C, with a lower limit of the ambient air temperature of –45 °C.

Additional requirements for boxes and enclosures suitable for use at ambient temperatures below –5 °C down to and including –45 °C are given in Clause 7, 8.1, and 15.4

##### 7      **Norway**

Add the following new classifications:

7.10 The minimum temperature in use	7.10.1 Boxes intended for use down to –5 °C	
	7.10.2 Boxes intended for use from –5 °C for use down to –45 °C <sup>b</sup>	
<sup>b</sup> The lower temperature limit in use is declared by marking inside symbol IEC 60417-6292 (see 8.1, k)		

##### 8.1      **Norway**

Add after j):



k) the symbol IEC 60417-6292 for boxes classified according to 7.10.2.

NOTE: Temperature inside symbol indicates the minimum declared temperature in use

##### **United Kingdom**

Add after e):

The marking of the type reference is not used.