

Tests on electric and optical fibre cables under fire conditions

Part 1-2: Test for vertical flame propagation for a single insulated
wire or cable - Procedure for 1 kW pre-mixed flame

National foreword

This British Standard is the UK implementation of EN 60332-1-2:2004+A12:2020. It is derived from IEC 60332-1-2:2004, incorporating amendment 1:2015. It supersedes BS EN 60332-1-2:2004+A11:2016, which will be withdrawn on 5 November 2023.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment 1 is indicated by A1 A1.

Text altered by CENELEC amendment A11 is indicated by A11 A11.

The UK participation in its preparation was entrusted to Technical Committee GEL/20/18, Electric Cables - Fire testing.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Amendments/corrigenda issued since publication

Date	Text affected
30 November 2015	Implementation of IEC amendment 1:2015 with CENELEC endorsement A1:2015. Annex ZA updated.
31 August 2016	Implementation of CENELEC amendment A11:2016
31 December 2020	Implementation of CENELEC amendment A12:2020

Tests on electric and optical fibre cables under fire conditions
Part 1-2: Test for vertical flame propagation
for a single insulated wire or cable -
Procedure for 1 kW pre-mixed flame
(IEC 60332-1-2:2004)

Essais des câbles électriques
et à fibres optiques soumis au feu
Partie 1-2: Essai de propagation verticale
de la flamme sur conducteur
ou câble isolé -
Procédure pour flamme
à prémélange de 1kW
(CEI 60332-1-2:2004)

Prüfungen an Kabeln, isolierten Leitungen
und Glasfaserkabeln im Brandfall
Teil 1-2: Prüfung der vertikalen
Flammenausbreitung an einer Ader,
einer isolierten Leitung oder einem Kabel -
Prüfverfahren mit 1 kW-Flamme
mit Gas-/Luftgemisch
(IEC 60332-1-2:2004)

This European Standard was approved by CENELEC on 2004-09-01. 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.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 20/697/FDIS, future edition 1 of IEC 60332-1-2, prepared by IEC TC 20, Electric cables, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60332-1-2 on 2004-09-01.

This European Standard supersedes EN 50265-2-1:1998.

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) 2005-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-09-01

Annex ZA has been added by CENELEC

Endorsement notice

The text of the International Standard IEC 60332-1-2:2004 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 60332-1-3 NOTE Harmonized as EN 60332-1-3:2004 (not modified).

IEC 60332-2-2 NOTE Harmonized as EN 60332-2-2:2004 (not modified).

Foreword to amendment A1

The text of document 20/1591/FDIS, future IEC 60332-1-2:2004/A1, prepared by IEC/TC 20 "Electric cables" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60332-1-2:2004/A1:2015.

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) 2016-06-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-09-01

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

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 60332-1-2:2004/A1:2015 was approved by CENELEC as a European Standard without any modification.

In the Bibliography of EN 60332-1-2:2004, the following note has to be added for the standard indicated:

ISO 13943 NOTE Harmonized as EN ISO 13943.

Foreword to amendment A11

This document [EN 60332-1-2:2004/A11:2016] has been prepared by CLC/TC 20 "Electric cables".

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) 2017-05-23
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2019-05-23

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

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Foreword to amendment A12

This document (EN 60332-1-2:2004/A12:2020) has been prepared by CLC/TC 20 "*Electric cables*".

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) 2021-11-05
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-11-05

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60332-1-1	- ¹⁾	Tests on electric and optical fibre cables under fire conditions Part 1-1: Test for vertical flame propagation for a single insulated wire or cable – Apparatus	EN 60332-1-1	2004 ²⁾
IEC 60695-4	- ¹⁾	Fire hazard testing Part 4: Terminology concerning fire tests	EN 60695-4	1995 ²⁾
IEC 60811-203	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 203: General tests - Measurement of overall dimensions	EN 60811-203	-
IEC Guide 104	- ¹⁾	The preparation of safety publications and the use of basic safety publications and group safety publications	-	

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.