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Fire hazard testing - Part 1-11: Guidance for assessing the fire hazard of electrotechnical products - Fire hazard assessment

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/16

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Oznámením tejto normy sa od 12.11.2017 ruší  
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Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy  
rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

English Version

**Fire hazard testing - Part 1-11: Guidance for assessing the fire hazard of electrotechnical products - Fire hazard assessment (IEC 60695-1-11:2014)**

Essais relatifs aux risques du feu - Partie 1-11: Lignes directrices pour l'évaluation du danger du feu des produits électrotechniques - Evaluation du danger du feu (IEC 60695-1-11:2014)

Prüfungen zur Beurteilung der Brandgefahr - Teil 1-11: Anleitung zur Beurteilung der Brandgefahr von elektrotechnischen Erzeugnissen - Beurteilung der Brandgefahr (IEC 60695-1-11:2014)

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## European foreword

The text of document 89/1220/FDIS, future edition 2 of IEC 60695-1-11, prepared by IEC/TC 89 "Fire hazard testing" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60695-1-11:2015.

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) 2016-05-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-11-12

This document supersedes EN 60695-1-11:2010.

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## Endorsement notice

The text of the International Standard IEC 60695-1-11:2014 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 60695-6-2	NOTE	Harmonized as EN 60695-6-2.
IEC 60695-7-1:2010	NOTE	Harmonized as EN 60695-7-1:2010 (not modified).
IEC 60695-7-2	NOTE	Harmonized as EN 60695-7-2.
IEC 60695-7-3:2011	NOTE	Harmonized as EN 60695-7-3:2011 (not modified).
IEC 60695-9-2	NOTE	Harmonized as EN 60695-9-2.
IEC 61386-21:2002	NOTE	Harmonized as EN 61386-21:2004 (not modified).

## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60695-1-10	2009	Fire hazard testing - Part 1-10: Guidance for assessing the fire hazard of electrotechnical products - General guidelines	EN 60695-1-10	2010
IEC 60695-1-12	-	Fire hazard testing - Part 1-12: Guidance for assessing the fire hazard of electrotechnical products - Fire safety engineering	-	-
IEC 60695-4	2012	Fire hazard testing - Part 4: Terminology concerning fire tests for electrotechnical products	EN 60695-4	2012
IEC Guide 104	2010	The preparation of safety publications and the use of basic safety publications and group safety publications	-	-
ISO 13943	2008	Fire safety - Vocabulary	EN ISO 13943	2010



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

BASIC SAFETY PUBLICATION

PUBLICATION FONDAMENTALE DE SÉCURITÉ

**Fire hazard testing –  
Part 1-11: Guidance for assessing the fire hazard of electrotechnical products –  
Fire hazard assessment**

**Essais relatifs aux risques du feu –  
Partie 1-11: Lignes directrices pour l'évaluation du danger du feu des produits  
électrotechniques – Evaluation du danger du feu**





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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

BASIC SAFETY PUBLICATION

PUBLICATION FONDAMENTALE DE SÉCURITÉ

**Fire hazard testing –**

**Part 1-11: Guidance for assessing the fire hazard of electrotechnical products –  
Fire hazard assessment**

**Essais relatifs aux risques du feu –**

**Partie 1-11: Lignes directrices pour l'évaluation du danger du feu des produits  
électrotechniques – Evaluation du danger du feu**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**FIRE HAZARD TESTING –****Part 1-11: Guidance for assessing the fire  
hazard of electrotechnical products –  
Fire hazard assessment**

## FOREWORD

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International Standard IEC 60695-1-11 has been prepared by IEC technical committee 89: Fire hazard testing.

This second edition cancels and replaces the first edition of IEC 60695-1-11 published in 2010, and constitutes a technical revision.

The main changes with respect to the previous edition are:

- a) Updated references;
- b) Updated terms and definitions; and
- c) Added Figure 5 – Description of range of products and circumstances of use; and
- d) Updated Bibliography.

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

FDIS	Report on voting
89/1220/FDIS	89/1239/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

It has the status of a basic safety publication in accordance with IEC Guide 104 and ISO/IEC Guide 51 [10]<sup>1</sup>.

This standard is to be used in conjunction with IEC 60695-1-10.

A list of all the parts in the IEC 60695 series, under the general title *Fire hazard testing*, can be found on the IEC website.

Part 1 consists of the following parts:

Part 1-10: Guidance for assessing the fire hazard of electrotechnical products – General guidelines

Part 1-11: Guidance for assessing the fire hazard of electrotechnical products – Fire hazard assessment

Part 1-12: Guidance for assessing the fire hazard of electrotechnical products – Fire safety engineering<sup>2</sup>

Part 1-20: Guidance for assessing the fire hazard of electrotechnical products – Ignitability – General Guidance

Part 1-21: Guidance for assessing the fire hazard of electrotechnical products – Ignitability – Summary and relevance of test methods

Part 1-30: Guidance for assessing the fire hazard of electrotechnical products – Preselection testing process – General guidelines

Part 1-40: Guidance for assessing the fire hazard of electrotechnical products – Insulating liquids

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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.

<sup>1</sup> Figures in square brackets refer to the Bibliography.

<sup>2</sup> To be published.

## INTRODUCTION

In the design of any electrotechnical product the risk of fire and the potential hazards associated with fire need to be considered. In this respect the objective of component, circuit and equipment design as well as the choice of materials is to reduce to acceptable levels the potential risks of fire even in the event of foreseeable abnormal use, malfunction or failure. This standard, together with its companion, IEC 60695-1-10, provides guidance on how this is to be accomplished.

The primary aims are to prevent ignition caused by an electrically energised component part and, in the event of ignition, to confine any resulting fire within the bounds of the enclosure of the electrotechnical product.

Secondary aims include the minimisation of any flame spread beyond the product's enclosure and the minimisation of harmful effects of fire effluents including heat, smoke, and toxic or corrosive combustion products.

Fires involving electrotechnical products can also be initiated from external non-electrical sources. Considerations of this nature are dealt with in the overall fire hazard assessment.

Fire hazard assessment is used to identify the kinds of fire events (fire scenarios) which will be associated with the product, to establish how the measurable fire properties of the product are related to the outcome of those events, and to establish test methods and performance requirements for those properties which will either result in a tolerable fire outcome or eliminate the event altogether.

Annex A demonstrates a relatively simple fire hazard assessment process as applied to the toxic hazard from a burning material.

Annex B demonstrates a more complex fire hazard assessment process as applied to an electrotechnical product, rigid plastic conduit.

Attention is drawn to the principles in IEC Guide 104, and to the role of committees with horizontal safety functions and group safety functions.

## **FIRE HAZARD TESTING –**

### **Part 1-11: Guidance for assessing the fire hazard of electrotechnical products – Fire hazard assessment**

#### **1 Scope**

This part of IEC 60695 provides guidance for assessing the fire hazard of electrotechnical products and for the resulting development of fire hazard testing as related directly to harm to people, animals or property.

It outlines a hazard-based process to identify appropriate fire test methods and performance criteria for products. The principles of the methodology are to identify fire events (fire scenarios) which will be associated with the product, to establish how the measurable fire properties of the product are related to the possible occurrence and outcome of those events, and to establish test methods and performance requirements for those properties which will either result in a tolerable fire outcome or eliminate the event altogether.

It is intended as guidance to IEC committees, to be used with respect to their individual applications. The actual implementation of this document remains the responsibility of each product committee, according to the minimum acceptable fire safety in its application field and taking into account the feedback from experience.

This basic safety publication is intended for use by technical committees in the preparation of standards in accordance with the principles laid down in IEC Guide 104 and ISO/IEC Guide 51 [10].

One of the responsibilities of a technical committee is, wherever applicable, to make use of basic safety publications in the preparation of its publications. The requirements, test methods or test conditions of this basic safety publication will not apply unless specifically referred to or included in the relevant publications.

#### **2 Normative references**

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.

IEC 60695-1-10:2009, *Fire hazard testing – Part 1-10: Guidance for assessing the fire hazard of electrotechnical products – General guidelines*

IEC 60695-1-12, *Fire hazard testing – Part 1-12 Guidance for assessing the fire hazard of electrotechnical products – Fire safety engineering*<sup>3</sup>

IEC 60695-4:2012, *Fire hazard testing – Part 4: Terminology concerning fire tests for electrotechnical products*

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<sup>3</sup> To be published.

IEC Guide 104:2010, *The preparation of safety publications and the use of basic safety publications and group safety publications*

ISO 13943:2008, *Fire safety – Vocabulary*

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