

SRI LANKA STANDARD 1007 : PART 1.1 : 2008
IEC 60332 : PART 1-1 : 2004

**METHODS OF TEST 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**

SRI LANKA STANDARDS INSTITUTION

Sri Lanka Standard
METHODS OF TEST 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

SLS 1007 Part 1.1 : 2008
IEC 60332 Part 1-1 : 2004

(Attached Amd No.1 (AMD 533))

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Sri Lanka Standard
METHODS OF TEST 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

NATIONAL FOREWORD

This standard was approved by the Sectoral Committee on Electric Cables and Conductors and was authorized for adoption and publication as a Sri Lanka Standard by the Council of Sri Lanka Standards Institution on 2008-08-28.

SLS 1007 Part 1.1 and **SLS 1007 Part 1.2** supersede **SLS 1007 Part 1 : 1993**.

SLS 1007 Methods of test for electric and optical cables under fire conditions, is published in five parts as follows:

- Part 1.1 Tests for vertical flame propagation for a single insulated wire or cable - Apparatus
- Part 1.2 Tests for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame
- Part 1.3 Tests for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles.
- Part 2.1 Tests for vertical flame propagation for a single small insulated wire or cable - Apparatus
- Part 2.2 Tests for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame.

This part of the standard is identical with **IEC 60332-1-1 : 2004** : 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, published by the International Electrotechnical Commission (IEC).

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the results of a test or an analysis shall be rounded off in accordance with **CS 102**. The number of significant places to be retained in the rounded off value shall be the same as that of the specified value in the standard.

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The text of the International Standard has been accepted as suitable for publication without deviation, as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards; attention is therefore drawn to the following:

- a) Wherever the words “International Standard” appear referring to this standard they should be interpreted as “Sri Lanka Standard”.
- b) Wherever the page numbers are quoted they are page number of IEC standard.

CROSS REFERENCES

Corresponding Sri Lanka Standards for international standards listed under references, in IEC 60332-1-1, are not available.

**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60332-1-1

Première édition
First edition
2004-07

PUBLICATION GROUPEE DE SÉCURITÉ
GROUP SAFETY PUBLICATION

**Essais des câbles électriques
et à fibres optiques soumis au feu –**

**Partie 1-1:
Essai de propagation verticale de la flamme
sur conducteur ou câble isolé –
Appareillage d'essai**

**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**



Numéro de référence
Reference number
CEI/IEC 60332-1-1:2004

Numérotation des publications

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**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**

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International Standard IEC 60332-1-1 has been prepared by IEC technical committee 20: Electric cables.

It has the status of a group safety publication in accordance with IEC Guide 104.

This first edition of International Standard IEC 60332-1-1, together with IEC 60332-1-2, cancel and replace the third edition of IEC 60332-1, published in 1993, and constitute a technical revision, calling for the re-structurization of the standard into two separate parts.

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

FDIS	Report on voting
20/696/FDIS	20/710/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.

IEC 60332 consists of the following parts, under the general title *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

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

Part 1-3: Test for vertical flame propagation for a single insulated wire or cable – Procedure for determination of flaming droplets/particles

Part 2-1: Test for vertical flame propagation for a single small insulated wire or cable – Apparatus

Part 2-2: Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame

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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

1 Scope

This part of IEC 60332 specifies the test apparatus for testing the resistance to vertical flame propagation for a single vertical electrical insulated conductor or cable, or optical fibre cable, under fire conditions.

The procedure, together with an informative annex of recommended requirements for performance, is given in IEC 60332-1-2.

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 60695-4, *Fire hazard testing – Part 4: Terminology concerning fire tests*

IEC 60695-11-2, *Fire hazard testing – Part 11-2: Test flames – 1 kW nominal pre-mixed flame – Apparatus, confirmatory test arrangement and guidance*

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

3 Terms and definitions

For the purposes of this document, the following definition applies. The definition is taken from IEC 60695-4.

3.1

ignition source

source of energy that initiates combustion

[IEC 60695-4:1993, definition 2.76]

4 Test apparatus

4.1 Components

The test apparatus shall comprise the following:

- a) a metallic screen (4.2);
- b) an ignition source (4.3);
- c) a suitable chamber (4.4).

4.2 Metallic screen

A metallic screen ($1\ 200 \pm 25$) mm high, (300 ± 25) mm wide and (450 ± 25) mm deep with open front and closed top and bottom, (see Figure 1), shall be used.

4.3 Ignition source

The ignition source shall comply with IEC 60695-11-2, which includes a method of confirmation of the test flame, except that the burner shall be fed with technical grade propane of greater than 95 % purity.

NOTE IEC 60695-11-2 specifically refers to the need to study also IEC 60695-2-4/0.

4.4 Chamber

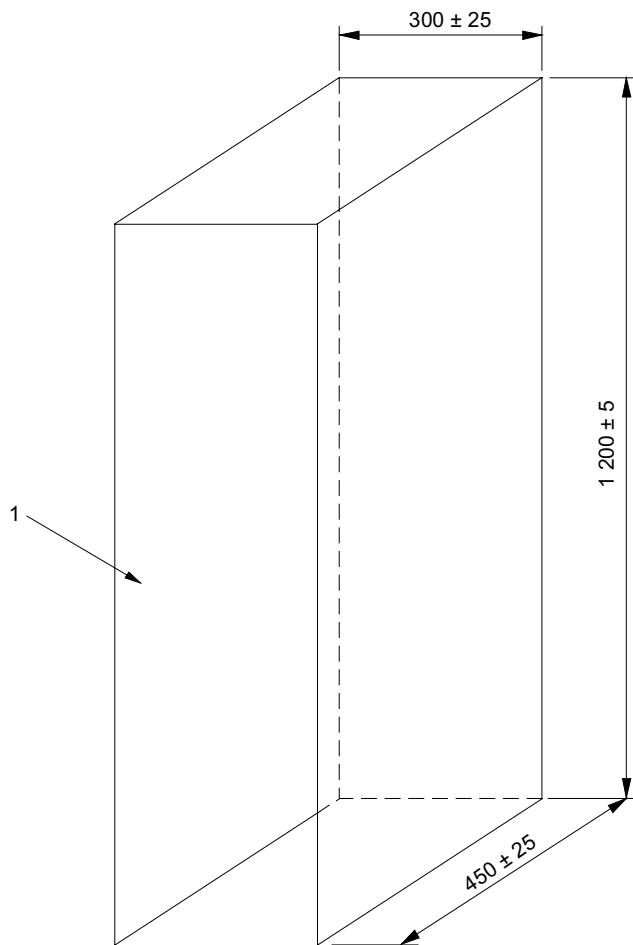
The metallic screen and ignition source shall be contained within a suitable chamber, substantially free from draughts during the test duration, but with facilities for disposing of noxious gases resulting from burning. The chamber shall be maintained at a temperature of (23 ± 10) °C.

NOTE 1 If the requirement for the draught-free closed area is met by the use of a standard fume cupboard, it must be capable of independent operator-control of the extractor fan such as to permit operation with the extractor "OFF". Some fume cupboards may not be supplied with this facility.

NOTE 2 If a fume cupboard is used as the draught-free test area, the following safe operating practice is recommended:

- a) turn off extractor fan, seal the outlet;
- b) pull down front door of fume cupboard to leave a gap sufficient to manipulate burner into position;
- c) ensure operator is protected;
- d) do not move the door of the fume cupboard during the test;
- e) at the end of the test evacuate the fume cupboard fully before opening the door.

Dimensions in millimetres



IEC 999/04

Key

1 Front open space (all other sides closed)

Figure 1 – Test apparatus – Metallic screen

Bibliography

IEC 60332-1-2, *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 60695-2-4/0, *Fire hazard testing – Part 2: Test methods – Section 4/Sheet 0: Diffusion type and pre-mixed type flame test methods*¹

¹ IEC 60695 is in the course of re-numbering its Parts and Sections. It is expected that IEC 60695-2-4/0 will become IEC 60695-11-1.

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AMENDMENT 1
AMENDEMENT 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**

**Essais des câbles électriques et à fibres optiques soumis au feu –
Partie 1-1: Essai de propagation verticale de la flamme sur conducteur ou câble
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AMENDMENT 1
AMENDEMENT 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**

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FDIS	Report on voting
20/1590/FDIS	20/1597/RVD

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3 Terms and definitions

Replace the existing source of item 3.1 by the following new source:

[SOURCE: ISO 13943:2008, 4.189]

4.1 Components

Replace the existing item a) by the following new item a):

- a) a metal enclosure (4.2);

4.2 Metallic screen

Replace the existing subclause by the following new subclause:

4.2 Metal enclosure

A metal enclosure (1 200 ± 25) mm high, (300 ± 25) mm wide and (450 ± 25) mm deep with open front and closed top and bottom, (see Figure 1), shall be used, in order to protect the test sample from draughts. It shall be constructed of rigid sheet metal.

4.3 Ignition source

Replace the existing subclause by the following new subclause:

The ignition source shall comply with IEC 60695-11-2, which includes a method of confirmation of the test flame, except that the laboratory fumehood/chamber shall comply with 4.4.

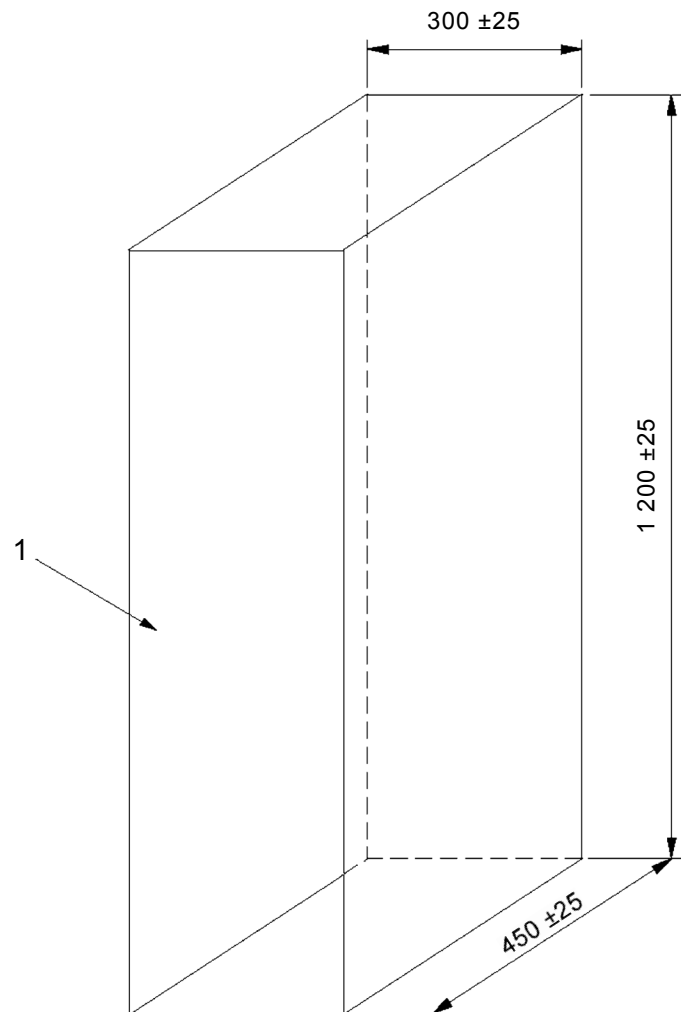
4.4 Chamber

In line 1 replace 'metallic screen' by 'metal enclosure'.

Figure 1 - Test apparatus – Metallic screen

Replace the existing Figure 1 including its title by the following new Figure 1 and title:

Dimensions in millimetres



IEC

Key

1 front open space (all other sides closed)

Figure 1 – Test apparatus – Metal enclosure**Bibliography**

Add the following new reference:

ISO 13943, *Fire safety – Vocabulary*

Delete the reference to IEC 60695-2-4/0 and its footnote.

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