SLOVENSKI STANDARD
SIST EN 61034-2:2005/A2:2020

01-maj-2020

Merjenje gostote dima pri gorenju kablov pri določenih pogojih - 2. del: Preskusni postopek in zahteve - Dopolnilo A2 (IEC 61034-2:2005/A2:2019)

Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements (IEC 61034-2:2005/A2:2019)

Messung der Rauchdichte von Kabeln und isolierten Leitungen beim Brennen unter definierten Bedingungen - Teil 2: Prüfverfahren und Anforderungen (IEC 61034-2:2005/A2:2019)

Mesure de la densité de fumées dégagées par des câbles brûlant dans des conditions définies - Partie 2: Procédure d'essai et exigences (IEC 61034-2:2005/A2:2019)

Ta slovenski standard je istoveten z: **EN 61034-2:2005/A2:2020**

ICS:

13.220.40	Sposobnost vžiga in obnašanje materialov in proizvodov pri gorenju	Ignitability and burning behaviour of materials and products
29.060.20	Kabli	Cables

SIST EN 61034-2:2005/A2:2020 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61034-2:2005/A2

February 2020

ICS 13.220.40; 29.020; 29.060.20

English Version

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This amendment A2 modifies the European Standard EN 61034-2:2005; it was approved by CENELEC on 2019-12-27. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions.

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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 20/1886/FDIS, future IEC 61034-2/A2, prepared by IEC/TC 20 "Electric cables" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61034-2:2005/A2:2020.

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) 2020-09-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-12-27

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.

Endorsement notice

The text of the International Standard IEC 61034-2:2005/A2:2019 was approved by CENELEC as a European Standard without any modification.

IEC 61034-2

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements

Mesure de la densité de fumées dégagées par des câbles brûlant dans des conditions définies – Partie 2: Procédure d'essai et exigences

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FOREWORD

This amendment has been prepared by IEC technical committee 20: Electric cables.

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

FDIS	Report on voting
20/1886/FDIS	20/1892/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 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.

2 Normative references

In the reference to “IEC Guide 104:1997”, *delete the date* ":1997".

5.2.2 Mounting of test sample

Delete the NOTE and add the following new paragraph:

To avoid movement during the test, the test pieces or bundles shall be bound with two turns of approximately 0,5 mm diameter wire in the centre and at every 100 mm each side from the centre. In addition, the test pieces or bundles may be tensioned at one or both ends by means of an appropriate device for example a spring or a weight.

7 Evaluation of test results

Replace the contents of Clause 7, modified by Amendment 1, with the following:

The requirement shall be given in the relevant cable specification.

For cables with an overall diameter above 20,0 mm, the recorded minimum light transmittance I_t/I_0 (see 6.6) shall be normalized as follows:

$$(I_t/I_0)_{norm} = [I_t/I_0]^{(40\ mm/ND)}$$

where

I_0 is the incident light intensity,

I_t is the transmitted light intensity,

I_t/I_0 is the transmittance,

$(I_t/I_0)_{norm}$ is the normalized transmittance,

N is the number of test pieces in accordance with Table 1,

D is the overall diameter of the cable in mm.

The resulting value $(I_t/I_0)_{norm}$ (expressed as a percentage) shall be taken for determining compliance.

If no value is given in the relevant cable specification, it is recommended that the recommendation in Annex B be adopted as a minimum.

EXAMPLE

The measured transmittance I_t/I_0 of a cable with overall diameter D of 38 mm is equal to 0,7. The number of test pieces N is 2. The normalized transmittance $(I_t/I_0)_{norm}$ is then equal to $0{,}7^{(40/(2\times38))}$ = 0,83 and expressed in a percentage equal to 83 %.