

Method of test for resistance to fire of larger unprotected power and control cables for use in emergency circuits

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 50362:2003 sisaldab Euroopa standardi EN 50362:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 08.05.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 50362:2003 consists of the English text of the European standard EN 50362:2003.</p> <p>This document is endorsed on 08.05.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard specifies a test method for cables designed to have intrinsic resistance to fire and intended for use as emergency circuits. The standard is applicable to power and control cables for emergency circuits of rated voltage not exceeding 0,6 /1 kV</p>	<p>Scope: This European Standard specifies a test method for cables designed to have intrinsic resistance to fire and intended for use as emergency circuits. The standard is applicable to power and control cables for emergency circuits of rated voltage not exceeding 0,6 /1 kV</p>
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Võtmesõnad: diam, effects, electric cables, electrical cords, electrical engineering, emergency power, emergency power stations, fire resistance, fire tests, flames, influence of flame, insulated cables, insulation integrity, specification (approval), specifications, testing

English version

Method of test for resistance to fire of larger unprotected power and control cables for use in emergency circuits

Méthode d'essai de résistance au feu des câbles de contrôle et d'énergie de grande dimension non protégés pour utilisation dans les circuits de secours

Prüfung des Isolationserhaltes im Brandfall von Kabeln und Leitungen mit großen Durchmessern für die Verwendung in Notstromkreisen bei ungeschützter Verlegung

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CENELEC

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

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 20, Electric cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50362 on 2002-12-01.

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) 2003-12-01
 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2005-12-01
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1 Scope

This European Standard specifies a test method for cables designed to have intrinsic resistance to fire and intended for use as emergency circuits.

The standard is applicable to power and control cables for emergency circuits of rated voltage not exceeding 0,6 /1 kV.

The test method is intended for cables with an overall diameter exceeding 20 mm. Cables of smaller diameter shall be tested in accordance with EN 50200.

The test method is based on the direct impingement on the cable of the flame from a propane burner giving a constant temperature attack of a notional 842 °C and under the influence of mechanical impact.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 50200	Method of test for resistance to fire of unprotected small cables for use in emergency circuits
EN 60269-3	Low voltage fuses — Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for domestic and similar applications)
EN 60584-1	Thermocouples — Part 1: Reference tables
EN 60695-4	Fire hazard testing — Part 4: Terminology concerning fire tests

3 Definitions

For the purposes of this standard, the definitions given in EN 60695-4 apply.

4 Duration of survival

4.1 Time

The duration of survival, measured in minutes, to the point of failure shall be recorded for each cable tested up to a maximum survival time of 120 min, or the required survival time given in the particular cable standard.

4.2 Point of failure

The criteria for determining the point of failure shall be as follows:

- the voltage is not maintained during the test duration, as indicated by fuse failure or by interruption of the circuit breaker;
- a conductor ruptures during the test duration, as indicated by the lamp extinguishing.