

## **Elektripaigaldiste kaablirenni- ja kaablitorusüsteemid. Osa 1: Üldnõuded**

Cable trunking systems and cable ducting systems  
for electrical installations Part 1: General  
requirements

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 50085-1:2005 sisaldab Euroopa standardi EN 50085-1:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 27.09.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 50085-1:2005 consists of the English text of the European standard EN 50085-1:2005.</p> <p>This document is endorsed on 27.09.2005 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><b>Käsitlusala:</b></p> <p>This European Standard specifies requirements and tests for cable trunking systems (CTS) and cable ducting systems (CDS) intended for the accommodation, and where necessary for the electrically protective separation, of insulated conductors, cables and possibly other electrical equipment in electrical and/or communication systems installations.</p>	<p><b>Scope:</b></p> <p>This European Standard specifies requirements and tests for cable trunking systems (CTS) and cable ducting systems (CDS) intended for the accommodation, and where necessary for the electrically protective separation, of insulated conductors, cables and possibly other electrical equipment in electrical and/or communication systems installations.</p>
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**EN 50085-1**

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English version

**Cable trunking systems and cable ducting systems  
for electrical installations  
Part 1: General requirements**

Systèmes de goulottes et de conduits  
profilés pour installations électriques  
Partie 1: Règles générales

Elektroinstallationskanalsysteme  
für elektrische Installationen  
Teil 1: Allgemeine Anforderungen

This European Standard was approved by CENELEC on 2005-04-01. 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.

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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 213, Cable management.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50085-1 on 2005-04-01.

This European Standard supersedes EN 50085-1:1997 + A1:1998.

NOTE EN 50085-1:1997 + A1:1998 will remain valid as long as Part 2-3 has not been aligned with the second edition of Part 1.

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) 2006-04-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) —\*

\* Open, depending on revision of Part 2-3, to be aligned with this Part 1.

This standard is a system standard for cable management products used for electro-technical purposes. It relates to the Council Directives on the approximation of laws, regulations and administrative provisions of the Member States relating to the Low Voltage Directive 73/23/EEC through consideration of the essential requirements of this directive.

This standard is supported by separate standards to which references are made.

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## 1 Scope

This European Standard specifies requirements and tests for cable trunking systems (CTS) and cable ducting systems (CDS) intended for the accommodation, and where necessary for the electrically protective separation, of insulated conductors, cables and possibly other electrical equipment in electrical and/or communication systems installations. The maximum voltage of these installations is 1 000 V a.c. and 1 500 V d.c.

This standard does not apply to conduit systems, cable tray systems, cable ladder systems, power track systems or equipment covered by other standards.

This Part 1 shall be used in conjunction with the relevant Part 2 for particular requirements.

NOTE This Part 1 is not intended to be used by itself.

## 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.

EN 22768-1	1993	General tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerance indications (ISO 2768-1:1989)
EN 50085-2	Series	Cable trunking systems and cable ducting systems for electrical installations - Part 2: Particular requirements
EN 50102 + A1	1995 1998	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)
EN 60423	1994	Conduits for electrical purposes - Outside diameters of conduits for electrical installations and threads for conduits and fittings (IEC 60423:1993, modified)
EN 60529	1991	Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)
EN 60695-2-4/1	1993	Fire hazard testing - Part 2: Test methods - Section 4/Sheet 1: 1 kW nominal pre-mixed test flame and guidance (IEC 60695-2-4/1:1991)
EN 60695-2-11	2001	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (IEC 60695-2-11:2000)
EN 61032	1998	Protection of persons and equipment by enclosures - Probes for verification (IEC 61032:1997)
HD 383 S2	1986	Conductors of insulated cables (IEC 60228:1978 + IEC 60228A:1982)
HD 384.1 S1	1979	Electrical installations of buildings (IEC 60364:1:1972 + A1:1976, modified)

HD 384.5.51 S1	1985	Part 5: Selection and erection of electrical equipment - Chapter 51: Common rules (IEC 60364-5-51:1979, modified)
HD 384.5.54 S1	1988	Chapter 54: Earthing arrangements and protective conductors (IEC 60364-5-54:1980, modified)
IEC 60050-826	2004	International Electrotechnical Vocabulary (IEV) - Part 826: Electrical installations
IEC 60417	database	Graphical symbols for use on equipment

### 3 Definitions

For the purpose of this European Standard the following definitions apply.

#### 3.1

##### **cable trunking system (CTS)**

assembly comprising a trunking length and possibly other system components to provide an enclosure for the accommodation and laying in of insulated conductors and cables and possibly the accommodation of other electrical equipment

NOTE Different types of CTS are shown in Figure 1 and explained in Annex A.

#### 3.2

##### **cable ducting system (CDS)**

assembly comprising a ducting length and possibly other system components to provide an enclosure for the accommodation and drawing in of insulated conductors and cables and possibly the accommodation of other electrical equipment

NOTE Different types of CDS are shown in Figure 1 and explained in Annex A.

#### 3.3

##### **system component**

part of the system which includes

- a) trunking length or ducting length,
- b) trunking fitting or ducting fitting,
- c) fixing device,
- d) apparatus mounting device,
- e) system accessory

NOTE A system does not necessarily include all system components a) to e). Different combinations of system components may be used.

#### 3.4

##### **trunking length**

main component of a cable trunking system comprising a base with one or more access covers which may be opened or removed

#### 3.5

##### **ducting length**

main component of a cable ducting system, characterized by a closed non-circular cross section

#### 3.6

##### **fitting**

system component to connect, change direction or terminate trunking lengths or ducting lengths