



## Installationskanalsystem för elektriska installationer-

### Del 1: Allmänna fordringar

*Cable trunking systems and cable ducting systems for electrical installations -*

*Part 1: General requirements*

Som svensk standard gäller europastandarden EN 50085-1:1997. Den svenska standarden innehåller den officiella engelska språkversionen av EN 50085-1:1997.



Descriptors: Electric wiring system, insulating ducting system, insulating cable trunking, dimension, mechanical characteristics, electrical characteristics, test

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 1996-07-02. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**CENELEC**

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

## Foreword

This European Standard has been 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 CEPELEC as EN 50085-1 on 1996-07-02.

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) 1997-07-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1999-07-01

For products which have complied with the relevant national standard before 1999-07-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 2004-07-01.

Annexes designated “informative” are given for information only.  
In this standard, annexes A and B are informative.

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:

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.

## Contents

	Page
Clause	
1 Scope	4
2 Normative references	4
3 Definitions	4
4 General requirements	6
5 General conditions for tests	6
6 Classification	6
7 Marking and documentation	8
8 Dimensions	9
9 Construction	9
10 Mechanical properties	13
11 Electrical properties	15
12 Thermal properties	16
13 Fire effects	18
14 External influences	18
15 Electromagnetic compatibility	19
Figure	
1 Types and applications of cable trunking systems (CTS) and cable ducting systems (CDS)	20
2 Impact test apparatus	21
3 Arrangement for flame test	22
4 Enclosure for flame test	23
5 Ball pressure test apparatus	24
Annex A (informative) - Types of cable trunking systems (CTS) and cable ducting systems (CDS)	25
Annex E? (informative) - A-deviations	27

## 1 Scope

This European Standard specifies requirements and tests for cable trunking systems and cable ducting systems intended for the accommodation, and where necessary for the segregation, of insulated conductors, cables, cords and possibly other electrical equipment in electrical and/or communication systems installations up to 1000 V a.c. and/or 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

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 60423	1994	Conduits for electrical purposes - Outside diameters of conduits for electrical installations and threads for conduits and fittings (IEC 423:1993, modified)
EN 60529	1991	Degrees of protection provided by enclosures (IP Code) (IEC 529:1989)
EN 60695-2-4/1	1993	Fire hazard testing - Part 2: Test methods Section 4/Sheet 1:1 kW nominal pre-fixed test flame and guidance (IEC 695-2-4/1:1991)
HD 383 S2	1986	Conductors of insulated cables (IEC 228:1978 + IEC 228A: 1982)
HD 384.1 S1	1979	Electrical installations of buildings (IEC 364:1:1972+ A1:1976, modified)
HD 384.5.51 S1	1985	Part 5: Selection and erection of electrical equipment Chapter 51: Common rules (IEC 364-5-51:1979, modified)
HD 384.5.54 S1	1988	Chapter 54: Earthing arrangements and protective conductors (IEC 364-5-54:1980, modified)
IEC 50(826)	1982	International Electrotechnical Vocabulary (IEV) - Chapter 826: Electrical installations of buildings (harmonized as HD 384.2 S1:1986)
IEC 695-2-1	1991	Fire hazard testing - Part 2: Test methods Section 1: Glow-wire test and guidance

## 3 Definitions

