
Sistemi kabelskih korit in sistemi kabelskih cevi za električne inštalacije - 2-2. del: Posebne zahteve - Sistemi kabelskih korit in sistemi kabelskih cevi, namenjenih za montažo pod tlemi, po golih tleh ali po tleh (IEC 61084-2-2:2017)

Cable trunking systems and cable ducting systems for electrical installations - Part 2-2: Particular requirements - Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor (IEC 61084-2-2:2017)

Elektroinstallationskanalsysteme für elektrische Installationen - Teil 2-2: Besondere Anforderungen für Elektroinstallationskanalsysteme für die Montage unterboden, bodenbündig, oder aufboden (IEC 61084-2-2:2017)

Systèmes de goulottes et systèmes de conduits-profilés pour installations électriques - Partie 2-2: Exigences particulières - Systèmes de goulottes et systèmes de conduits-profilés prévus pour être montés en sous-sol, encastrés dans le sol, ou sur le sol (IEC 61084-2-2:2017)

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(IEC 61084-2-2:2017)

Systèmes de goulottes et systèmes de conduits-profilés pour installations électriques - Partie 2-2: Exigences particulières - Systèmes de goulottes et systèmes de conduits-profilés prévus pour être montés en sous-sol, encastrés dans le sol, ou sur le sol
(IEC 61084-2-2:2017)

Installationskanalsysteme für elektrische Installationen - Teil 2-2: Besondere Anforderungen - Installationskanalsysteme für die Montage unterflur, bodenbündig oder aufflur
(IEC 61084-2-2:2017)

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

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EN IEC 61084-2-2:2024 (E)

European foreword

This document (EN IEC 61084-2-2:2024) consists of the text of document IEC 61084-2-2:2017, prepared by SC 23A "Cable management systems" of IEC/TC 23 "Electrical accessories".

The following dates are fixed:

- latest date by which this document has to be (dop) 2025-08-05 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2029-08-05 conflicting with this document have to be withdrawn

This document supersedes EN 50085-2-2:2008 and all of its amendments and corrigenda (if any).

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.

This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of EN IEC 61084-2-2:2024/A11:2024.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

SIST EN IEC 61084-2-2:2024 **Endorsement notice**

<https://standards.iteh.ai/catalog/standards/sist/de109d1b-1f38-46db-8af7-9b8ff240178f/sist-en-iec-61084-2-2-2024>

The text of the International Standard IEC 61084-2-2:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61084-2-4:2017 NOTE Approved as EN IEC 61084-2-4:2024 (not modified)



IEC 61084-2-2

Edition 2.0 2017-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Cable trunking systems and cable ducting systems for electrical installations –
Part 2-2: Particular requirements – Cable trunking systems and cable ducting
systems intended for mounting underfloor, flushfloor, or onfloor**

**Systèmes de goulottes et systèmes de conduits-profilés pour installations
électriques –**

**Partie 2-2: Exigences particulières – Systèmes de goulottes et systèmes de
conduits-profilés prévus pour être montés en sous-sol, encastrés dans le sol,
ou sur le sol**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CABLE TRUNKING SYSTEMS AND CABLE DUCTING
SYSTEMS FOR ELECTRICAL INSTALLATIONS –****Part 2-2: Particular requirements – Cable trunking systems and cable
ducting systems intended for mounting underfloor, flushfloor, or onfloor**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61084-2-2 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition published in 2003. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- classification;
- construction;
- mechanical and electrical properties.

This International standard is to be used in conjunction with IEC 61084-1:2017.

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

FDIS	Report on voting
23A/828/FDIS	23A/836/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.

This part of the IEC 61084 series supplements or modifies the corresponding clauses of IEC 61084-1:2017 as follows:

- where no particular clause or subclause of IEC 61084-1 is mentioned, the corresponding clause or subclause of IEC 61084-1 applies as far as it is reasonable;
- where “addition” or “replacement” is stated, the relevant text of IEC 61084-1 is to be adapted accordingly;
- subclauses, figures and tables which are additional to those in IEC 61084-1 are numbered starting from 101.

In this standard, the following print types are used:

- requirements and definitions: roman type;
- *compliance statements: italic type.*

A list of all parts in the IEC 61084 series, published under the general title *Cable trunking and cable ducting systems for electrical installations*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website 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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

CABLE TRUNKING SYSTEMS AND CABLE DUCTING SYSTEMS FOR ELECTRICAL INSTALLATIONS –

Part 2-2: Particular requirements – Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor

1 Scope

This part of the IEC 61084 series 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 AC and 1 500 V DC.

These systems are intended for mounting underfloor, flushfloor or onfloor.

This document does not apply to CTS/CDS which are intended to be fixed to the wall and supported by the floor.

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

2 Normative references

This clause of Part 1 is applicable, except as follows:

Addition:

[SIST EN IEC 61084-2-2:2024](https://standards.iteh.ai/catalog/standards/sist/de109d1b-1f38-46db-8af7-9b8ff240178f/sist-en-iec-61084-2-2-2024)

<https://standards.iteh.ai/catalog/standards/sist/de109d1b-1f38-46db-8af7-9b8ff240178f/sist-en-iec-61084-2-2-2024>

IEC 60068-2-60:2015, *Environmental testing – Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test*

IEC 60068-2-75:2014, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 61084-1:2017, *Cable trunking systems and cable ducting systems for electrical installations – Part 1: General requirements*

3 Terms and definitions

This clause of Part 1 is applicable, except as follows:

3.1 Replace Note 1 to entry by:

Note 1 to entry: Different types of CTS are shown in Figure 101 and explained in Annex A.

3.2 Replace Note 1 to entry by:

Note 1 to entry: Different types of CDS are shown in Figure 101 and explained in Annex A.

3.3 Addition:

f) service unit

Replace Note 1 to entry by:

Note 1 to entry: A system does not necessarily include all system components a) to f). Different combinations of system components can be used.

*Addition:***3.101
underfloor CTS/CDS**

CTS/CDS whose components, except access units and service units, are intended to be mounted within or under a floor and in normal use are not exposed to traffic loads

Note 1 to entry: See Figures 102a), 102c) and 103.

**3.102
flushfloor CTS/CDS**

CTS/CDS whose components, except access units and service units, are intended to be mounted flush such that the height above the upper level of the floor covering is not more than 4 mm

Note 1 to entry: The upper surface is considered to be exposed to traffic loads.

Note 1 to entry: See Figures 102b) and 104.

**3.103
onfloor CTS/CDS**

CTS/CDS whose components are intended to be mounted on a floor such that the height above the upper level of the floor covering is greater than 4 mm

Note 1 to entry: The upper surface is considered to be exposed to traffic loads.

Note 2 to entry: See Figures 102d) and 105.

**3.104
access unit**

system component intended to provide access to insulated conductors or cables

**3.105
service unit**

system component intended for incorporation of one or more apparatus either directly or by means of one or more apparatus mounting devices

**3.106
service unit**

<when not in use> service unit which has no cables connected to electrical equipment

**3.107
service unit**

<when in use> service unit which has cables connected to electrical equipment

4 General requirements

This clause of Part 1 is applicable.

5 General conditions for tests

This clause of Part 1 is applicable.

6 Classification

This clause of Part 1 is applicable, except as follows:

Additional subclauses:

6.101 According to floor treatment

6.101.1 CTS/CDS for dry-treatment of floor

6.101.2 CTS/CDS for wet-treatment of floor when the service unit is not in use

6.101.3 CTS/CDS for wet-treatment of floor when the service unit is in use

6.102 According to resistance to vertical load applied through small surface area

6.102.1 CTS/CDS for 500 N

6.102.2 CTS/CDS for 750 N

6.102.3 CTS/CDS for 1 000 N

6.102.4 CTS/CDS for 1 500 N

6.102.5 CTS/CDS for 2 000 N

6.102.6 CTS/CDS for 2 500 N

6.102.7 CTS/CDS for 3 000 N

6.103 Optional classification according to resistance to vertical load applied through large surface area

6.103.1 CTS/CDS for 2 000 N

6.103.2 CTS/CDS for 3 000 N

6.103.3 CTS/CDS for 5 000 N

6.103.4 CTS/CDS for 10 000 N

6.103.5 CTS/CDS for 15 000 N

7 Marking and documentation

This clause of Part 1 is applicable, except as follows:

Additional subclauses:

7.101 Access units and service units of systems classified according to 6.101.1 shall be marked that they are suitable for dry treatment of floor only. The marking shall be visible by the user which may be achieved by opening the cover.

NOTE This marking can be in the form of text or graphic.