IEC 61084-2-4

Edition 2.1 2024-03
CONSOLIDATED VERSION

INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Cable trunking systems and cable ducting systems for electrical installations – Part 2-4: Particular requirements – Service poles and service posts

Systèmes de goulottes et systèmes de conduits-profilés pour installations électriques – Partie 2-4 : Exigences particulières – Colonnes et colonnettes



IEC 61084-2-4:2017-03+AMD1:2024-03 CSV(en-fr)



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CABLE TRUNKING SYSTEMS AND CABLE DUCTING SYSTEMS FOR ELECTRICAL INSTALLATIONS –

Part 2-4: Particular requirements – Service poles and service posts

FOREWORD

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This consolidated version of the official IEC Standard and its amendment has been prepared for user convenience.

IEC 61084-2-4 edition 2.1 contains the second edition (2017-03) [documents 23A/830/FDIS and 23A/837/RVD] and its amendment 1 (2024-03) [documents 23A/1062/FDIS and 23A/1070/RVD].

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 61084-2-4 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories.

This second 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 publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

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 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 document and its amendment will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
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CABLE TRUNKING SYSTEMS AND CABLE DUCTING SYSTEMS FOR ELECTRICAL INSTALLATIONS –

Part 2-4: Particular requirements – Service poles and service posts

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

Service poles and service posts are intended to be mounted in free space and in contact with mounting surface(s) only at one or two ends, where the word “mounted” means fixed or placed on the floor with a weighted base or linked to a mounting surface through a flexible component.

NOTE Service poles and service posts can also be part of a CTS/CDS intended for wall or ceiling mounting covered by IEC 61084-2-1 or floor mounting covered by IEC 61084-2-2 and are then also tested according to said parts, as appropriate.

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

2 Normative references

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

Addition:

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

IEC 60228:2004, *Conductors of insulated cables*

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

IEC 61084-2-1:2017, *Cable trunking and cable ducting systems for electrical installations – Part 2-1: Particular requirements – Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings*

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

ISO 535:~~2014~~2023, *Paper and board – Determination of water absorptiveness – Cobb method*

ISO 536:~~2012~~2019, *Paper and board – Determination of grammage*

ISO 9328-7:2011, *Steel flat products for pressure purposes – Technical delivery conditions – Part 7: Stainless steels*

3 Terms and definitions

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

Addition:

3.101
service pole
CTS/CDS intended to be mounted in free space and in contact with mounting surfaces only at two ends

Note 1 to entry: Service pole can be part of a CTS/CDS intended for wall, ceiling or floor mounting. See Figure 101.

Note 2 to entry: The word “mounted” means fixed or placed on the floor with a weighted base or linked to a mounting surface through a flexible component.

3.102
service post
CTS/CDS intended to be mounted in free space and in contact with mounting surface only at one end

Note 1 to entry: Service post can be part of a CTS/CDS intended for wall, ceiling or floor mounting. See Figure 101.

Note 2 to entry: The word “mounted” means fixed or placed on the floor with a weighted base or linked to a mounting surface through a flexible component.

3.103
pre-equipped service pole/service post
service pole/service post already assembled by the manufacturer or responsible vendor with one or more electrical accessories and/or communication components

3.104
pre-wired service pole/service post
service pole/service post already assembled by the manufacturer or responsible vendor, wired by means of insulated conductors and/or cables connecting one or more electrical accessories and/or communication components

3.105
modular service pole/service post
service pole/service post which includes the assembly of two or more modules allowing to increase the height or width or depth of the product

3.106
rated current
value of the current assigned to a pre-wired and/or pre-equipped service pole/service post by the manufacturer and to which operation and performances characteristics are referred

3.107
rated voltage
value of the voltage assigned to a pre-wired and/or pre-equipped service pole/service post by the manufacturer and to which operation and performances characteristics are referred

4 General requirements

This clause of Part 1 is applicable.