# SLOVENSKI STANDARD
# oSIST prEN IEC 61084-2-4:2023/oprAA:2023

**01-februar-2023**

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**Sistemi kabelskih korit in sistemi kabelskih cevi za električne inštalacije - 2-4. del: Posebne zahteve - Podporni drogovi in podporni stebri - Dopolnilo AA**

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

Elektroinstallationskanalsysteme für elektrische Installationen - Teil 2-4: Besondere Anforderungen für freistehende Installationseinheiten

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



**Ta slovenski standard je istoveten z:** **prEN IEC 61084-2-4:2022/prAA**

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**ICS:**

| | | |
|---|---|---|
| 29.120.10 | Inštalacijske cevi za električne namene | Conduits for electrical purposes |

**oSIST prEN IEC 61084-2-4:2023/oprAA:2023** **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

**DRAFT**
**prEN IEC 61084-2-4:2022**

**prAA**

December 2022

ICS 29.060.01; 29.120.10 -

English Version

# 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

Elektroinstallationskanalsysteme für elektrische Installationen - Teil 2-4: Besondere Anforderungen für freistehende Installationseinheiten

This draft amendment prAA, if approved, will modify the European Standard prEN IEC 61084-2-4:2022; it is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2023-03-03.

It has been drawn up by CLC/TC 213.



If this draft becomes an amendment, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

This draft amendment was established by CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.



CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

# European foreword

This document (prEN IEC 61084-2-4:2022/prAA:2022) has been prepared by CLC/TC 213 “Cable management systems”.

This document is currently submitted to the Enquiry.

The following dates are proposed:

| | | |
|---|---|---|
| • latest date by which the existence of this document has to be announced at national level | (doa) | dor + 6 months |
| • latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | dor + 12 months |
| • latest date by which the national standards conflicting with this document have to be withdrawn | (dow) | dor + 60 months |

This document is used in conjunction with prEN IEC 61084-1:2022 and prEN IEC 61084-1:2022/prAA:2022.



This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZZ, which is an integral part of this document.

## 1 Modification to Clause 2, “Normative references”

***Replace*** “ISO 536:2012, *Paper and board – Determination of grammage*”

by

“ISO 536:2019, *Paper and board – Determination of grammage*”.

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

by

“EN 10028-7:2016, *Flat products made of steels for pressure purposes - Part 7: Stainless steels*”.

## 2 Modification to Clause 9, “Construction”

*In* **9.104**, ***replace*** “ISO 535” by “ISO 535:2014” and ***replace*** “ISO 536” by “ISO 536:2019”.

## 3 Modification to Clause 10, “Mechanical properties”

*In* “**10.4 Linear deflection test**”:

***replace*** *in the fifth paragraph* “class 5, Table 3” by “Table 3 - class 5”.

*In* “**10.5.101 Horizontal load test for service poles not likely to be moved during use**”:

***replace*** in the fourth paragraph, in the first dash “stainless steel X5CrNi18-9, with a thickness of at least 2 mm according to ISO 9328-7” by “stainless steel X5CrNi18-10, with a thickness of at least 2 mm according to EN 10028-7:2016”.



## 4 Modification to Clause 13, “Fire hazard”

*In* “**13.1.3 Spread of fire**”:

***replace*** *in the last paragraph* “IEC 60695-11-2” by “IEC 60695-11-2:2017 using method B.”

## 5 Addition of Annex C, “Compliance checks to be carried out for cable trunking systems and cable ducting systems currently complying with EN 50085-2-4:2009 in order to comply with prEN IEC 61084-2-4:2022”

***Add*** *the following Annex C:*

“

# Annex C
(normative)

# Compliance checks to be carried out for cable trunking systems and cable ducting systems currently complying with EN 50085-2-4:2009 in order to comply with prEN IEC 61084-2-4:2022

This normative annex relates to prEN IEC 61084-2-4:2022 requirements. It informs where compliance checks are required and where compliance checks are not required to be carried out in order that cable trunking systems and cable ducting systems can be declared to meet the requirements of prEN IEC 61084-2-4 if they already comply with EN 50085-2-4:2009.

**Table C.1 — Required compliance checks**

| Test reference subclause | Description | Compliance check |
|---|---|---|
| **Marking and documentation** | | |
| 7.1 | Marking of system components | Not required |
| 7.2 | Durability and legibility of marking | Not required |
| 7.3 | Documentation | Not required |
| 7.4 | Symbols | Not required |
| **Construction** | | |
| 9.1 | Sharp edges | Not required |
| 9.2 | Apparatus mounting | Not required |
| 9.3 | Means for protective separation and/or retention | Not required |
| 9.4 | Mechanical connections | Not required |
| 9.5 | Accessible conductive parts | Not required |
| 9.6 | Equipotential bonding | Not required |
| 9.7 | Access to live parts | Not required |
| 9.8 | Inlet openings | Not required |
| 9.9 | Membranes | Not required |
| 9.10 | Cable restrainer | Not required |
| 9.11 | Cable anchorage | Not required |
| 9.101 | Service poles/service posts likely to be moved during use | Not required |
| 9.102 | Resistance to vertical load on service poles/service posts | Not required |
| 9.103 | Selection of insulated conductors and/or cables | Not required |
| 9.104 | Protection against contact between water and insulated conductors and live parts during wet-treatment of floor | Not required |

| Test reference subclause | Description | Compliance check |
|---|---|---|
| **Mechanical properties** | | |
| 10.3.1 | Impact test for storage and transport | Not required |
| 10.3.2 | Impact test for installation and application | Not required |
| 10.4 | Linear deflection test | Not required |
| 10.5.1 | Fixing test for apparatus mounting of socket outlets | Not required |
| 10.5.2 | Fixing test for apparatus mounting other than socket outlets | Not required |
| 10.6 | System access cover retention | Not required |
| 10.101 | Compression test for CDS | Not required |
| **Electrical properties** | | |
| 11.1 | Electrical continuity | Not required |
| 11.2 | Electrical insulation | Not required |
| **Thermal properties** | | |
| 12.1.2 | Test for non-metallic or composite system components necessary to retain current-carrying parts in position | Not required |
| 12.1.3 | Test for non-metallic or composite system components not necessary to retain current-carrying parts in position | Not required |
| **Fire hazard** | | |
| 13.1.1 | Initiation of fire | Not required |
| 13.1.2 | Contribution to fire | Not required |
| 13.1.3 | Spread of fire | Not required |
| **External influences** | | |
| 14.1.2 | Protection against ingress of solid foreign objects | Not required |
| 14.1.3 | Protection against ingress of water | Not required |
| 14.1.4 | Protection against access to hazardous parts | Not required |
| **Electromagnetic compatibility** | | |
| 15 | | Not Required |
| **Environmental properties** | | |
| 16.1 | Halogen content | Required only for CTS/CDS declared according to 6.10.1 |
| **Electromagnetic characteristics** | | |
| 17 | | Required only when electromagnetic characteristics of the CTS/CDS are declared |
| **CTS/CDS IK code** | | |
| Annex B | CTS/CDS IK code | Not required |

“

## 6 Modification to Annex AB, “Routine test for the socket outlets wiring of pre-wired service poles and service posts (correct polarity and protection against electric shock)”

*In* “**AB.3 Earth continuity**”:

***replace*** *the title of AB.3 by* “**Earth - Correct connection**”

***replace*** *the second paragraph* “Continuity shall be present.” *by* “The test shall check that the connection between the remote end of the earth conductor of the cable, and the earth pin or contact of the socket-outlet is correct.”

## 7 Addition of Annex ZA, “Normative references to international publications with their corresponding European publications”

***Add*** *the following Annex ZA:*

“

# Annex ZA
(normative)

## Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

*The Annex ZA of prEN IEC 61084-1:2022/prAA:2022 is applicable with the following additions:*

| Publication | Year | Title | EN/HD | Year |
|---|---|---|---|---|
| IEC 60068-2-75 | 2014 | Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests | EN 60068-2-75 | 2014 |
| IEC 60228 | 2004 | Conductors of insulated cables | EN 60228 | 2005 |
| IEC 61084-1 | 2017 | Cable trunking systems and cable ducting systems for electrical installations – Part 1: General requirements | prEN IEC 61084-1 | 2022 |
| 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 | prEN IEC 61084-2-1 | 2022 |
| 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 | prEN IEC 61084-2-2 | 2022 |
| ISO 535 | 2014 | Paper and board – Determination of water absorptiveness – Cobb method | EN ISO 535 | 2014 |
| ISO 536 | 2019 | Paper and board – Determination of grammage | EN ISO 536 | 2020 |
| | | | EN 10028-7 | 2016 |

”

## 8 Addition of Annex ZZ, “Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered”

***Add*** *the following Annex ZZ:*

“

# Annex ZZ
(informative)

# Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European standard has been prepared under a Commission’s standardisation request relating to harmonised standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.



**Table ZZ.1 — Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]**



| Safety objectives of Directive 2014/35/EU | Clause(s) / sub-clause(s) of this EN | Remarks / Notes |
|---|---|---|
| (1)(a) | Clause 7 | |
| (1)(b) | Clauses 7, 9, 10, 11 and 14 | |
| (1)(c) | Clauses 4 and 6 | |
| (2)(a) | Clauses 5, 7, 9, 11 and 14 | |
| (2)(b) | Clauses 5, 7, 9, 10 and 12 | Only for pre-wired service poles and service posts |
| (2)(c) | Clauses 5, 7, 9, 10, 12 and 13 | |
| (2)(d) | Clauses 5 and 11 | |
| (3)(a) | Clauses 5, 9 and 10 | |
| (3)(b) | Clauses 5, 9, 10, 13 and 14 | |
| (3)(c) | | Not applicable |

**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.”