SLOVENSKI STANDARD
SIST EN 50085-1:2006/A1:2013

01-september-2013

Sistemi kabelskih korit in sistemi kabelskih cevi za električne inštalacije - 1. del: Splošne zahteve

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

Elektroinstallationskanalsysteme für elektrische Installationen - Teil 1: Allgemeine Anforderungen

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

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Ta slovenski standard je istoveten z: **EN 50085-1:2005/A1:2013**

ICS:

29.120.10	Inštalacijske cevi za električne namene	Conduits for electrical purposes

SIST EN 50085-1:2006/A1:2013 **en**

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EUROPEAN STANDARD

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English version

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This amendment A1 modifies the European Standard EN 50085-1:2005; it was approved by CENELEC on 2013-05-20. 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.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

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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 document (EN 50085-1:2005/A1:2013) has been prepared by CLC/TC 213 "Cable management systems".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2014-05-20
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2016-05-20

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

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2 Normative references

Replace

EN 50102 + A1	1995 1998	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

with

EN 62262	2002	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (IEC 62262:2002)

3 Definitions

*In **3.13**, **replace** the term and definition with:*

3.13
non-flame propagating system component
system component which can catch fire as a result of an applied flame, in which the resulting flame does not propagate and self extinguishes within a limited time after the applied flame is removed

*In **3.18**, **replace** the term and definition with:*

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3.18
cable anchorage
system accessory or part of another system component to relieve conductors in terminals and terminations from strain by resisting the pull and twist forces on cable

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6 Classification

***Replace 6.2** with:*

6.2 According to resistance to impact for installation and application

6.2.1 CTS/CDS for impact 0,5 J.

6.2.2 CTS/CDS for impact 0,7 J.

6.2.3 CTS/CDS for impact 1 J.

6.2.4 CTS/CDS for impact 2 J.

6.2.5 CTS/CDS for impact 5 J.

6.2.6 CTS/CDS for impact 10 J.

6.2.7 CTS/CDS for impact 20 J.

6.3 According to temperatures as given in Tables 1, 2 and 3

Delete “± 2 °C” in Table 1, Table 2 and Table 3.

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6.8 According to protection against corrosive or polluting substances

Replace *6.8.1 to 6.8.6 by* “Under consideration.”.

Delete *all of subclause 6.10* “According to electrically protective separation”.

7 Marking and documentation

*In **7.1**, **replace** the two following paragraphs*:

“When system components other than trunking length, ducting length and apparatus mounting device are supplied in a package, it is sufficient to mark the product identification on the smallest supplied package, the manufacturer's or responsible vendor's name or trade mark or identification mark being marked on the product.

When it is not possible to have a legible marking on small components, due to the small size of the item, it is sufficient to place these markings on the smallest supplied package.”

with

“When system components other than trunking length, ducting length and apparatus mounting device are supplied in a package and it is not feasible to have both markings legible due to the small size of the item

- if only one legible marking is feasible, it is sufficient to mark the product identification on the smallest supplied package, the manufacturer's or responsible vendor's name or trade mark or identification mark being marked on the product;
- if no legible marking is feasible, it is sufficient to place both markings on the smallest supplied package”.

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*In **7.1**, **replace** the NOTE with the following:*

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Flame propagating system component shall be clearly identified as being flame propagating on the system component and on the smallest supplied package or label.

When it is not feasible to have this identification mean on small system components, due to the small size of the item, it is sufficient to place this identification mean on the smallest supplied package.

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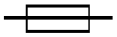
***Replace 7.4** with:*

7.4 Symbols

Symbols covered by IEC 60417 shall comply with IEC 60417.

Examples are:

Amperes	A
Volts	V
Frequency	Hz
Alternating current	~ or ac
Line	L or L1, L2, L3 etc in case of more than one
Neutral	N
Protective earth	
Fuse	
Degree of protection	IPXX (see EN 60529)
Flame propagating	 IEC 60417-6180

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For the marking of rated current and rated voltage the figures may be used alone. These figures may be placed on one line separated by an oblique line or the figures for rated current may be placed above the figures for rated voltage, separated by a horizontal line.

The marking for the nature of supply shall be placed next to the marking for rated current and rated voltage.

The marking for current, voltage and nature of supply may be, for example, as follows:

16 A 440 V ~ or 16/440 ~ or $\frac{16}{440}$ ~

9 Construction

9.4 Mechanical connections

*In **9.4.1**, Table 4:*

- ***replace*** “Torque for metal screws” *with* “Torque”;
- ***replace*** “Over 3“ *with* “Over 3,0“;
- ***delete*** NOTE 1 in its entirety;
- ***replace*** "NOTE 2" *with* "NOTE".

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9.7 Access to live parts

*In **9.7.3**, **add*** “with a tolerance of ± 2 °C” *after* “which is carried out at the temperature declared according to Table 3“.

9.9 Membranes

*In **9.9.2, add*** “with a tolerance of ± 2 °C” *after* “the temperature being maintained at the value declared according to Table 3 “.

*In **9.9.4**, **add*** “with a tolerance of ± 2 °C” *after* “the temperature declared according to Table 2“.

9.11 Blank

10.3 Impact test

10.3.1 Impact test for storage and transport

*In **10.3.1.1**, **add*** “with a tolerance of ± 2 °C” *after* “are aged at the temperature declared according to Table 3“.

*In **10.3.1.2**, **add*** “with a tolerance of ± 2 °C” *after* “are placed in a refrigerator at the temperature declared according to Table 1“.

10.3.2 Impact test for installation and application

Add “with a tolerance of ± 2 °C” *after* “at the temperature declared according to Table 2“.

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Replace Table 6 with:

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Table 6 – Impact test values

Resistance to impact classification	**Equivalent mass** kg	**Fall height** mm ± 1 %
Impact 0,5 J	0,25	200
Impact 0,7 J	0,25	280
Impact 1 J	0,25	400
Impact 2 J	0,50	400
Impact 5 J	1,70	300
Impact 10 J	5,00	200
Impact 20 J	5,00	400

***Replace** in the last paragraph* “EN 50102” with “EN 62262”

10.5.1 Fixing test for apparatus mounting of socket outlets

***Replace** the third paragraph after the NOTE with:*

“The maximum withdrawal force for the plug is taken from the relevant national standard. When there is no relevant national standard, a maximum withdrawal force of 50 N is used.”

10.6 System access cover retention

***Replace** the whole subclause with:*

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10.6 System access cover retention

Access cover of system components of systems classified according to 6.9.2 shall not be capable of being opened without a tool.

Compliance is checked by the following test.

Before the test, non metallic system components and composite components are aged at a temperature declared according to Table 3 with a tolerance of ± 2 °C for (168 ± 4) h continuously.

The test is carried out on an assembly made of one or more trunking lengths or ducting lengths with the relevant system component, if any, to fulfil the various functions of the system and prepared according to the manufacturer's instructions. More than one assembly may be necessary to fulfil the various functions of the system. In each direction, the length L of trunking length or ducting length coming out of the functional area associated with the function of the system is as long as the width W of the trunking length or ducting length, or 250 mm, whichever is the greater. The tolerance of L is ± 25 mm.

NOTE Functional area refers, for example, to a fitting, an apparatus mounting device, a junction as shown in Figure 10.

The samples are mounted on a rigid smooth support such as a plywood board 16 mm thick, with a 50 mm minimum spacing between the assembly and the edge of the support.

Other system components may be included, if necessary, to prevent movements. These system components are the system components to terminate the trunking length or ducting length, if any. When there is no such system component, a system component chosen by the manufacturer is used.

Examples for arrangement are shown in Figure 11.

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Without the use of a tool, reasonable manual effort is made to open the access cover. Reasonable effort is intended to simulate action and instinctive handling likely to occur.

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After the test, the access cover shall remain secured.

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13.1.3 Spread of fire

Replace the first paragraph with:

Non-flame propagating CTS/CDS declared according to 6.4.2 shall either not ignite or if ignited, shall not continue to burn when the source of ignition is removed.

14.1 Degree of protection provided by enclosure

Add "with a tolerance of ± 2 °C" *after* "at the maximum application temperature as declared by the manufacturer according to Table 3".

Figures

Figure 8: ***replace*** *the title with* "Typical apparatus for testing the resistance of cable anchorage to pull force".

Add *the following figures*