

SLOVENSKI STANDARD
SIST EN IEC 61386-22:2021**01-september-2021****Nadomešča:****SIST EN 61386-22:2004****SIST EN 61386-22:2004/A11:2011**

Sistemi kanalov za električne inštalacije - 22. del: Posebne zahteve - Upogljivi sistemi kanalov (IEC 61386-22:2021)

Conduit Systems for cable management - Part 22: Particular requirements - Pliable conduit systems (IEC 61386-22:2021)

iTeh STANDARD PREVIEW

Elektroinstallationsrohrsysteme für die Kabel- und Leitungsverlegung - Teil 22: Besondere Anforderungen für biegsame Elektroinstallationsrohrsysteme (IEC 61386-22:2021)

[SIST EN IEC 61386-22:2021](https://standards.iteh.ai/catalog/standards/sist/f3dc098-2a44-439e-aa5b-826c1273e09e/iec-61386-22:2021)[https://standards.iteh.ai/catalog/standards/sist/f3dc098-2a44-439e-aa5b-](https://standards.iteh.ai/catalog/standards/sist/f3dc098-2a44-439e-aa5b-826c1273e09e/iec-61386-22:2021)

Systèmes de conduits pour la gestion du câblage - Partie 22: Exigences particulières - Systèmes de conduits cintrables (IEC 61386-22:2021)

Ta slovenski standard je istoveten z: EN IEC 61386-22:2021**ICS:**

29.120.10	Inštalacijske cevi za električne namene	Conduits for electrical purposes
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SIST EN IEC 61386-22:2021**en**

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EUROPEAN STANDARD

EN IEC 61386-22

NORME EUROPÉENNE

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July 2021

ICS 29.120.10

Supersedes EN 61386-22:2004 and all of its
amendments and corrigenda (if any)

English Version

Conduit Systems for cable management - Part 22: Particular requirements - Pliable conduit systems (IEC 61386-22:2021)

Systèmes de conduits pour la gestion du câblage –
Partie 22: Exigences particulières - Systèmes de conduits
cintrables
(IEC 61386-22:2021)

Elektroinstallationsrohrsysteme für die Kabel- und
Leitungsverlegung - Teil 22: Besondere Anforderungen für
biegsame Elektroinstallationsrohrsysteme
(IEC 61386-22:2021)

This European Standard was approved by CENELEC on 2021-05-17. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

[SIST EN IEC 61386-22:2021](https://standards.iteh.ai/catalog/standards/sist/fb3dc098-2a44-439e-aa5b-30671ca77819/iec-61386-22-2021)

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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

EN IEC 61386-22:2021 (E)**European foreword**

The text of document 23A/951/FDIS, future edition 2 of IEC 61386-22, prepared by SC 23A "Cable management systems" of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61386-22:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-05-17 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-05-17 document have to be withdrawn

This document supersedes EN 61386-22:2004 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 mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of EN 61386-1:2008/A1:2019.

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[SIST EN IEC 61386-22:2021](https://standards.iteh.ai/catalog/standards/sist/fb3dc098-2a44-439e-aa5b-8fae917f3a49/sist-en-iec-61386-22-2021)

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The text of the International Standard IEC 61386-22:2021 was approved by CENELEC as a European Standard without any modification.



INTERNATIONAL STANDARD

**Conduit systems for cable management –
Part 22: Particular requirements – Pliable conduit systems**

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INTERNATIONAL
ELECTROTECHNICAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONDUIT SYSTEMS FOR CABLE MANAGEMENT –**Part 22: Particular requirements – Pliable conduit systems**

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 61386-22 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 2002. This edition constitutes a technical revision.

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

- a) Annex AA has been added to provide guidance on the application of a constantly increasing force.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
23A/951/FDIS	23A/956/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

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

A list of all the parts in the IEC 61386 series, published under the general title *Conduit systems for cable management*, can be found on the IEC website.

This document is to be used in conjunction with IEC 61386-1:2008 and IEC 61386-1:2008/AMD1:2017.

This document supplements or modifies the corresponding clauses of IEC 61386-1:2008 and IEC 61386-1:2008/AMD1:2017. Where a particular clause or subclause of IEC 61386-1:2008 and IEC 61386-1:2008/AMD1:2017 is not mentioned in this document, that clause or subclause applies as far as is reasonable. Where this document states "addition", "modification" or "replacement", the relevant text of IEC 61386-1:2008 and IEC 61386-1:2008/AMD1:2017 is to be adapted accordingly.

Subclauses, tables and figures which are in addition to those in IEC 61386-1:2008 and IEC 61386-1:2008/AMD1:2017 are numbered starting with 101. Annexes which are additional to those in IEC 61386-1:2008 and IEC 61386-1:2008/AMD1:2017 are lettered AA, BB, etc.

In this document, the following print types are used:

- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Explanatory matter: in smaller roman type.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

CONDUIT SYSTEMS FOR CABLE MANAGEMENT –

Part 22: Particular requirements – Pliable conduit systems

1 Scope

Clause 1 of IEC 61386-1:2008 is applicable, except as follows:

Addition:

This part of IEC 61386 specifies the requirements for pliable conduit systems including self-recovering conduit systems.

2 Normative references

Clause 2 of IEC 61386-1:2008 and of IEC 61386-1:2008/AMD1:2017 are applicable, except as follows:

Addition:

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IEC 61386-1:2008, *Conduit systems for cable management – Part 1: General requirements*
IEC 61386-1:2008/AMD1:2017

3 Terms and definitions

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Clause 3 of IEC 61386-1:2008 and of IEC 61386-1:2008/AMD1:2017 are applicable.

4 General requirements

Clause 4 of IEC 61386-1:2008 is applicable.

5 General conditions for tests

Clause 5 of IEC 61386-1:2008 and of IEC 61386-1:2008/AMD1:2017 are applicable.

6 Classification

Clause 6 of IEC 61386-1:2008 is applicable, except as follows:

Classifications 6.1.1, 1; 6.1.2, 1; 6.1.3, 1; 6.1.3, 4; 6.1.4, 1 and 6.1.5, 1 are not applicable.

NOTE Pliable conduit systems according to 6.1.1, 2 and 6.1.2, 2 and classification 1 from 6.2.1, Table 1 are not allowed in France.

7 Marking and documentation

Clause 7 of IEC 61386-1:2008 and of IEC 61386-1:2008/AMD1:2017 are applicable, except as follows:

Addition:

7.1.101 The conduit shall be marked in accordance with 7.1 along its entire length at regular intervals of preferably 1 m but not longer than 3 m. Where this is technically impractical, the mark shall be on a label attached to the product at each end or on the packaging.

Compliance is checked by inspection.

7.1.102 The manufacturer shall document, for the conduit system, the minimum inside diameter and the classification in accordance with Clause 6.

Compliance is checked by inspection of the manufacturer's documentation.

8 Dimensions

Replacement:

8.1 Threads shall comply with IEC 60423.

Outside diameters of non-metallic conduit shall comply with IEC 60423.

Outside diameters of metallic and composite conduits need not comply with IEC 60423, provided that they are designed to be installed only with terminating conduit fittings having threads complying with IEC 60423.

Compliance is checked by means of the gauges specified in IEC 60423.

8.2 Threadable conduits and threadable conduit fittings, except terminating conduit fittings, shall comply with Table 101. Non-threadable conduit fittings, except fittings which are part of a conduit system declaring tensile strength, shall comply with Table 102. The minimum inside diameter of the conduit system shall be as declared by the manufacturer.

Compliance is checked by measurement.

Table 101 – Thread lengths

Size mm	External thread	Internal thread
	Minimum length mm	Minimum length mm
6	05,5	06,5
8	06,5	07,5
10	08,5	09,5
12	10,5	11,5
16	12,5	13,5
20	14,0	15,0
25	17,0	18,0
32	19,0	20,0
40	19,0	20,0
50	19,0	20,0
63	19,0	20,0
75	19,0	20,0