



# SLOVENSKI STANDARD SIST EN IEC 61386-23:2021

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Nadomešča:

SIST EN 61386-23:2004

SIST EN 61386-23:2004/A11:2011

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**Sistemi kanalov za električne inštalacije - 23. del: Posebne zahteve - Zvijavi sistemi kanalov (IEC 61386-23:2021)**

Conduit systems for cable management - Part 23: Particular requirements - Flexible conduit systems (IEC 61386-23:2021)

**iTeh STANDARD PREVIEW**

Elektroinstallationsrohrsysteme für die Kabel- und Leitungsverlegung - Teil 23: Besondere Anforderungen für flexible Elektroinstallationsrohrsysteme (IEC 61386-23:2021)

[SIST EN IEC 61386-23:2021](https://standards.iteh.ai/catalog/standards/sist/2ff193fa-a4c4-4fec-80fa-6198110719/cable-management-61386-23-2021)

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Systèmes de conduits pour la gestion du câblage - Partie 23: Exigences particulières - Systèmes de conduits souples (IEC 61386-23:2021)

**Ta slovenski standard je istoveten z: EN IEC 61386-23:2021**

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**ICS:**

29.120.10	Inštalacijske cevi za električne namene	Conduits for electrical purposes
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**SIST EN IEC 61386-23:2021 en**

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EUROPEAN STANDARD

**EN IEC 61386-23**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2021

ICS 29.120.10

Supersedes EN 61386-23:2004 and all of its  
amendments and corrigenda (if any)

English Version

**Conduit systems for cable management - Part 23: Particular  
requirements - Flexible conduit systems  
(IEC 61386-23:2021)**

Systèmes de conduits pour la gestion du câblage - Partie  
23: Exigences particulières - Systèmes de conduits souples  
(IEC 61386-23:2021)

Elektroinstallationsrohrsysteme für die Kabel- und  
Leitungsverlegung - Teil 23: Besondere Anforderungen für  
flexible Elektroinstallationsrohrsysteme  
(IEC 61386-23:2021)

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.

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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 61386-23:2021 (E)****European foreword**

The text of document 23A/952/FDIS, future edition 2 of IEC 61386-23, 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 61386-23:2021.

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 61386-23:2004 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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The text of the International Standard IEC 61386-23:2021 was approved by CENELEC as a European Standard without any modification.



# INTERNATIONAL STANDARD

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**Conduit systems for cable management –  
Part 23: Particular requirements – Flexible conduit systems**

**STANDARD PREVIEW**  
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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CONDUIT SYSTEMS FOR CABLE MANAGEMENT –****Part 23: Particular requirements – Flexible conduit systems**

## FOREWORD

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International Standard IEC 61386-23 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/952/FDIS	23A/957/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 23: Particular requirements – Flexible 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 flexible 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:*

IEC 61386-1:2008, *Conduit systems for cable management – Part 1: General requirements*  
IEC 61386-1:2008/AMD1:2017 (standards.iteh.ai)

#### 3 Terms and definitions

[SIST EN IEC 61386-23:2021](https://standards.iteh.ai/catalog/standards/sist/2ff193fa-a4c4-4fec-80fa-64990bc97ac9/sist-en-iec-61386-23-2021)

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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 6.1.3, 1; 6.1.3, 2 and 6.1.3, 3 are not applicable.

NOTE Flexible conduit systems according to 6.1.1, 1; 6.1.1, 2; 6.1.2, 1; 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 or include in the packaging, the minimum inside diameter, the minimum bend radius and the classification in accordance with Clause 6 for the conduit system.

*Compliance is checked by inspection of the documentation.*

## 8 Dimensions

*Replacement:*

**8.1** Threads shall comply with IEC 60423.

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

**8.2** The minimum inside diameter of the conduit system shall be as declared by the manufacturer.

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*Compliance is checked by measurement.*

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## 9 Construction

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Clause 9 of IEC 61386-1:2008 is applicable.

## 10 Mechanical properties

Clause 10 of IEC 61386-1:2008 and of IEC 61386-1:2008/AMD1:2017 are applicable, except as follows:

### 10.2 Compression test

*Subclause 10.2 is applicable with the following addition:*

**10.2.4** Add the following note at the end of Subclause 10.2.4:

NOTE In order to achieve a uniformly increasing compression force, the force indicated in Table 4 is divided by time; this value is the required rate per second to fulfil the requirement.

Example: For a test force of 750 N an increase of the test force of 25 N/s is required (750 divided by 30 equals 25). Informative Annex AA gives detailed calculations including tolerances for time and force.

### 10.4 Bending test

Subclause 10.4 of IEC 61386-1:2008 is not applicable.