



IEC 61386-21

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REDLINE VERSION

# INTERNATIONAL STANDARD



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**Conduit systems for cable management –  
Part 21: Particular requirements – Rigid conduit systems**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**CONDUIT SYSTEMS FOR CABLE MANAGEMENT –****Part 21: Particular requirements – Rigid 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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**This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 61386-21:2002. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.**

International Standard IEC 61386-21 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) Subclause 7.1.103 has been added requiring the manufacturer to declare whether the conduit is bendable;
- b) 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/950/FDIS	23A/955/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.

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## CONDUIT SYSTEMS FOR CABLE MANAGEMENT –

### Part 21: Particular requirements – Rigid conduit systems

#### 1 Scope

~~This clause of part 1 is applicable, except as follows:~~

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

*Addition:*

This part of IEC 61386 specifies the requirements for rigid conduit systems.

#### 2 Normative references

~~This clause of part 1 is applicable.~~

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

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Conduit systems for cable management –  
Part 21: Particular requirements – Rigid conduit systems**

**Systèmes de conduits pour la gestion du câblage –  
Partie 21: Exigences particulières – Systèmes de conduits rigides**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**CONDUIT SYSTEMS FOR CABLE MANAGEMENT –****Part 21: Particular requirements – Rigid 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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FDIS	Report on voting
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## **CONDUIT SYSTEMS FOR CABLE MANAGEMENT – Part 21: Particular requirements – Rigid 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 rigid 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

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## COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**SYSTÈMES DE CONDUITS POUR LA GESTION DU CÂBLAGE –****Partie 21: Exigences particulières – Systèmes de conduits rigides**

## AVANT-PROPOS

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La Norme internationale IEC 61386-21 a été établie par le sous-comité 23A: Systèmes de câblage, du comité d'études 23 de l'IEC: Petit appareillage:

Cette deuxième édition annule et remplace la première édition parue en 2002. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) Le 7.1.103 a été ajouté. Il exige du fabricant qu'il déclare si le produit peut être cintré;
- b) L'Annexe AA a été ajoutée. Elle donne des recommandations relatives à l'application d'une force croissant constamment.

La présente version bilingue (2021-12) correspond à la version anglaise monolingue publiée en 2021-04.

La version française de cette norme n'a pas été soumise au vote.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2

Une liste de toutes les parties de la série IEC 61386, publiées sous le titre général *Systèmes de conduits pour la gestion du câblage*, peut être consultée sur le site web de l'IEC.

Ce document doit être utilisé conjointement avec l'IEC 61386-1:2008 et l'IEC 61386-1:2008/AMD1:2017.

Le présent document complète ou modifie les articles correspondants de l'IEC 61386-1:2008 et de l'IEC 61386-1:2008/AMD1:2017. Lorsqu'un article ou un paragraphe particulier de l'IEC 61386-1:2008 et de l'IEC 61386-1:2008/AMD1:2017 n'est pas mentionné dans le présent document, cet article ou ce paragraphe s'applique pour autant que cela soit raisonnable. Lorsque le présent document mentionne "addition", "modification" ou "remplacement", le texte correspondant de l'IEC 61386-1:2008 et de l'IEC 61386-1:2008/AMD1:2017 doit être adapté en conséquence.

Les paragraphes, tableaux et figures qui s'ajoutent à ceux de l'IEC 61386-1:2008 et de l'IEC 61386-1:2008/AMD1:2017 sont numérotés à partir de 101. Les annexes qui sont ajoutées à celles de l'IEC 61386-1:2008 et de l'IEC 61386-1:2008/AMD1:2017 sont numérotées AA, BB, etc.

Dans le présent document, les caractères d'imprimerie suivants sont utilisés:

- Exigences en tant que telles: caractères romains.
- *Spécifications d'essai: caractères italiques.*
- Rapport explicatif: petits caractères romains.

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- amendé.

## **SYSTÈMES DE CONDUITS POUR LA GESTION DU CÂBLAGE –**

### **Partie 21: Exigences particulières – Systèmes de conduits rigides**

#### **1 Domaine d'application**

L'Article 1 de l'IEC 61386-1:2008 s'applique avec l'exception suivante:

*Addition:*

La présente partie de l'IEC 61386 spécifie les exigences pour les systèmes de conduits rigides.

#### **2 Références normatives**

L'Article 2 de l'IEC 61386-1:2008 et de l'IEC 613861:2008/AMD1:2017 s'applique avec l'exception suivante:

*Addition:*

IEC 61386-1:2008, *Systèmes de conduits pour la gestion du câblage – Partie 1: Exigences générales*

IEC 61386-1:2008/AMD1:2017