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FINAL VERSION

VERSION FINALE

Conduit systems for cable management – Part 1: General requirements

Systèmes de conduits pour la gestion du câblage – Partie 1: Exigences générales

IEC 61386-1:2008-02+AMD1:2017-04 CSV(en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CONDUIT SYSTEMS FOR CABLE MANAGEMENT –

Part 1: General requirements

FOREWORD

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DISCLAIMER
This Consolidated version is not an official IEC Standard and has been prepared for user convenience. Only the current versions of the standard and its amendment(s) are to be considered the official documents.

This Consolidated version of IEC 61386-1 bears the edition number 2.1. It consists of the second edition (2008-02) [documents 23A/553/FDIS and 23A/558/RVD] and its amendment 1 (2017-04) [documents 23A/831/FDIS and 23A/838/RVD]. The technical content is identical to the base edition and its amendment.

This Final version does not show where the technical content is modified by amendment 1. A separate Redline version with all changes highlighted is available in this publication.

International Standard IEC 61386-1 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories.

This second edition constitutes a technical revision. The changes to the first edition are as follows:

– change to the length of the test specimen between fittings for the tensile test,

– editorial and normative reference updates.

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

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

This Part 1 is to be used in conjunction with the appropriate Part 2, which contains clauses to supplement or modify the corresponding clauses in Part 1, to provide the relevant particular requirements for each type of product. A conduit system which conforms to this standard is deemed safe for use.

In this publication, the following print types are used:

– Requirements proper: in roman type.

– *Test specifications: in italic type.*

– Explanatory matter: in smaller roman type.

The following differences exist in some countries:

6.5.2: In Australia and Austria, conduits and conduit fittings may be classified with low acid gas emission.

13.1.4: In Australia conduits and conduit fittings classified as low acid gas emission shall be tested in accordance with IEC 60754-1, evolve not more than the equivalent of 5 mg of hydrochloride-acid per gram of sample.

In Austria conduits and conduit fittings classified as low acid gas emission shall be tested in accordance with IEC 60754-2.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

CONDUIT SYSTEMS FOR CABLE MANAGEMENT –

Part 1: General requirements

1 Scope

This part of IEC 61386 specifies requirements and tests for conduit systems, including conduits and conduit fittings, for the protection and management of insulated conductors and/or cables in electrical installations or in communication systems up to 1 000 V a.c. and/or 1 500 V d.c. This standard applies to metallic, non-metallic and composite conduit systems, including threaded and non-threaded entries which terminate the system. This standard does not apply to enclosures and connecting boxes which come within the scope of IEC 60670.

NOTE 1 Certain conduit systems may also be suitable for use in hazardous atmospheres. Regard should then be taken of the extra requirements necessary for equipment to be installed in such conditions.

NOTE 2 Earthing conductors may or may not be insulated.

2 Normative references

The following referenced documents are indispensable for the application 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.

IEC 60417, *Graphical symbols for use on equipment*

IEC 60423:2007, *Conduit systems for cable management – Outside diameters of conduits for electrical installations and threads for conduits and fittings*

IEC 60529:1989+AMD1:1999+AMD2:2013, *Degrees of protection provided by enclosures (IP Code)*

IEC 60695-2-11:2014, *Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)*

IEC 60695-11-2:2003, *Fire hazard testing – Part 11-2: Test flames - 1 kW nominal pre-mixed flame - Apparatus, confirmatory test arrangement and guidance*

IEC 61386-21:2002, *Conduit systems for cable management – Part 21: Particular requirements – Rigid conduit systems*

IEC 61386-22:2002, *Conduit Systems for cable management – Part 22: Particular requirements – Pliable conduit systems*

IEC 61386-23:2002, *Conduit systems for cable management – Part 23: Particular requirements – Flexible conduit systems*

IEC 61386-24:2004, *Conduit systems for cable management – Part 24: Particular requirements – Conduit systems buried underground*

IEC 61386-25:2011, *Conduit systems for cable management – Part 25: Particular requirements – Conduit fixing devices*