



BSI Standards Publication

## Conduit systems for cable management

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Part 1: General requirements

This is a preview of "BS EN 61386-1:2008+A...". [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of EN 61386-1:2008+A1:2019. It is identical to IEC 61386-1:2008, incorporating amendment 1:2017. It supersedes BS EN 61386-1:2008, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to IEC text carry the number of the IEC amendment. For example, text altered by IEC amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee PEL/213, Cable management.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2008.

### Amendments/corrigenda issued since publication

Date	Text affected
31 August 2019	Implementation of IEC amendment 1:2017 with CENELEC endorsement A1:2019

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## EUROPÄISCHE NORM

July 2019

ICS 29.120.10

English Version

## Conduit systems for cable management - Part 1: General requirements

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

Elektroinstallationsrohrsysteme für elektrische Energie und  
für Informationen - Teil 1: Allgemeine Anforderungen

This European Standard was approved by CENELEC on 2008-06-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.



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**

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The text of document 23A/831/FDIS, future edition 2 of IEC 61386-1:2008/A1, prepared by IEC/TC 23A "Cable management systems, of IEC technical committee 23: Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61386-1:2008/A1:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-01-26
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-07-26

This document supersedes EN 61386-1:2008.

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 this document.

### **Endorsement notice**

The text of the International Standard IEC 61386-1:2008/A1:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60364-4-42:2010	NOTE	Harmonized as HD 60364-4-42:2011 (modified).
IEC 60364-5-52:2009	NOTE	Harmonized as HD 60364-5-52:2011 (modified).
IEC 60670 (series)	NOTE	Harmonized as EN 60670 (series)
IEC 60754-2	NOTE	Harmonized as EN 60754-2.

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## Foreword to amendment A1

The text of document 23A/553/FDIS, future edition 2 of IEC 61386-1, prepared by SC 23A, Cable management systems, of IEC TC 23, Electrical accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61386-1 on 2008-06-01.

This European Standard supersedes EN 61386-1:2004 + corrigendum April 2004.

The changes to EN 61386-1:2004 are as follows:

- change to the length of the test specimen between fittings for the tensile test,
- editorial and normative reference updates.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-06-01

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.

For this European Standard the references to Austria and Australia in Subclauses 6.5.2 and 13.1.4 of IEC 61386-1:2008 shall be disregarded and have been replaced by the normative Annex ZB, *Special national conditions*.

Annexes ZA and ZB have been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61386-1:2008 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60670	NOTE Harmonized in EN 60670 series (modified).
IEC 60754-1 & IEC 60754-2	NOTE See EN 50267 series, <i>Common test methods for cables under fire conditions - Tests on gases evolved during combustion of materials from cables</i> .

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60417	1973 <sup>1</sup>	Graphical symbols for use on equipment. Index, survey and compilation of the single sheets.	-	-
IEC 60423	2007	Conduit systems for cable management - Outside diameters of conduits for electrical installations and threads for conduits and fittings	EN 60423	2007
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
-	-		+ corrigendum	1993
+ A1	1999		+ A1	2000
+ A2	2013		+ A2	2013
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)	EN 60695-2-11	2014
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	EN 60695-11-2	2003
IEC 61386-21	2002	Conduit systems for cable management -- Part 21: Particular requirements - Rigid conduit systems	EN 61386-21	2004
-	-		+ corrigendum	2004
-	-		+ A11	2010
IEC 61386-22	2002	Conduit systems for cable management -- Part 22: Particular requirements - Pliable conduit systems	EN 61386-22	2004
-	-		+ corrigendum	2004
-	-		+ A11	2010

<sup>1</sup> Dated as no equivalent European Standard exists.

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IEC 61386-23	2002	Conduit systems for cable management -- Part 23: Particular requirements - Flexible conduit systems	EN 61386-23	2004
-	-		+ corrigendum	2004 Apr.
-	-		+ A11	2010
IEC 61386-24	2004	Conduit systems for cable management -- Part 24: Particular requirements - Conduit systems buried underground	EN 61386-24	2010
IEC 61386-25	2011	Conduit systems for cable management -- Part 25: Particular requirements - Conduit fixing devices	EN 61386-25	2011

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## **Annex ZB** (normative)

### **Special national conditions**

**Special national condition:** National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions.

NOTE If it affects harmonization, it forms part of the European Standard / Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

<u>Clause</u>	<u>Special national condition</u>
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<b>6.5.2</b>	<b>Austria</b>
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Conduits and conduit fittings may be classified with low acid gas emission.

<b>13.1.4</b>	<b>Austria</b>
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Conduits and conduit fittings classified as low acid gas emission shall be tested in accordance with EN 50267-1 and EN 50267-2-2.

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(informative)

## **Relationship between this European Standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered**

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

**Table ZZ.1 – Correspondence between this European Standard and Annex I of Directive 2014/35/EU [2014 OJ L96]**

<b>Safety objectives of Directive 2014/35/EU</b>	<b>Clause(s) / sub-clause(s) of this EN</b>	<b>Remarks / Notes</b>
(1)(a)	Clause 7 Marking and documentation	
(1)(b)	Clause 6 Classification Clause 7 Marking and documentation Clause 8 Dimensions Clause 9 Construction	
(1)(c)	Clause 1 Scope Clause 2 Normative references Clause 3 Terms and definitions Clause 4 General requirements Refer to (2)(a) to (2)(d) and (3)(a) to (3)(c) below	
(2)(a)	Clause 4 General requirements Clause 5 General conditions for tests Clause 6 Classification Clause 9 Construction Clause 10 Mechanical properties Clause 11 Electrical properties Clause 12 Thermal properties Clause 14 External influences	