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BSI Standards Publication

Conduit systems buried underground for the protection and management of insulated electrical cables or communication cables

Part 1: General requirements

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National foreword

This British Standard is the UK implementation of EN 50626-1:2023. It supersedes BS EN 61386-24:2010 which will be withdrawn on 21 July 2026.

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 committee manager.

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31 August 2023	Correction to supersession date of withdrawal in national foreword and addition of designated standard text

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50626-1

July 2023

ICS 29.120.10

Supersedes EN 61386-24:2010

English Version

Conduit systems buried underground for the protection and management of insulated electrical cables or communication cables - Part 1: General requirements

Systèmes de conduits enterrés dans le sol pour la protection et la gestion des câbles électriques isolés ou des câbles de communication - Partie 1: Exigences générales

Erdverlegte Elektroinstallationsrohrsysteme für den Schutz und die Führung isolierter elektrischer Kabel oder Fernmeldekabel - Teil 1: Allgemeine Anforderungen

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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

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Full document details: BS EN 50626-1:2023

Contents

Page

European foreword 4
Introduction 5
1 Scope 6
2 Normative references 6
3 Terms and definitions 6
4 General requirements 8
5 General conditions for tests 8
6 Classification 9
6.1 According to mechanical properties 9
6.1.1 Resistance to compression 9
6.1.2 Resistance to impact 9
6.1.3 Resistance to bending 9
6.2 According to resistance to external influences 10
6.2.1 Protection against ingress of solid objects 10
6.2.2 Protection against ingress of water 10
6.2.3 Resistance against corrosion (only applicable to metallic and composite system components) 10
6.3 According to resistance to flame propagation 10
6.3.1 Non-flame propagating 10
6.3.2 Flame propagating 10
7 Marking and documentation 10
8 Dimensions 12
9 Construction 13
10 Mechanical properties 14
10.1 Mechanical strength 14
10.2 Compression test 14
10.3 Impact test 15
10.4 Bending test 16
11 Fire hazard 17
11.1 Reaction to fire 17
11.1.1 Spread of fire 17
11.1.2 Additional reaction to fire characteristics 21
12 External influences 21
12.1 Degree of protection provided by enclosure 21
12.1.1 General 21
12.1.2 Degree of protection – Ingress of foreign solid objects 21
12.1.3 Degree of protection – Ingress of water 21
12.2 Resistance against corrosion 21
13 Electromagnetic compatibility 23

Documents
Document Sharing Hub

Full document details: BS EN 50626-1:2023

Annex A (normative) Determination of material thickness 24
A.1 Material thickness of plain conduit 24
A.2 Material thickness of corrugated conduit 24
A.3 Material thickness of combined plain conduit and corrugated conduit 25
A.4 Material thickness of plain conduit, with an intermediate corrugated layer 25
Annex B (normative) Special national conditions 26
Annex ZZ (informative) Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered 27
Bibliography 28

Documents
Document Sharing Hub
Full document details: BS EN 50626-1:2023

European foreword

This document (EN 50626-1:2023) has been prepared by CLC/TC 213, “Cable management systems”.

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2024-01-21
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2026-07-21

This document supersedes EN 61386-24:2010 and all of its amendments and corrigenda (if any).

EN 50626-1:2023 includes the following significant technical changes with respect to EN 61386-24:2010:

— the scope has been modified for clarity and relationship with EN 50626-2;

— normative references have been updated;

— new definitions have been introduced;

— changes to general conditions for tests;

— changes to classifications;

— changes to tests for marking;

— changes to figure numbers;

— Clause 11 has been deleted and subsequent clauses renumbered;

— Clause 12 and Clause 13 have been replaced by new Clause 11.

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 Standardization Request given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZZ, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users’ national committee. A complete listing of these bodies can be found on the CENELEC website.

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Full document details: BS EN 50626-1:2023

Introduction

CENELEC TC 213 is responsible for the development of the EN 50626 series, which consists of two separate parts, both covering different products/applications.

This document covers requirements and tests for conduit systems buried underground for the protection and management of insulated conductors and/or power cables or communication cables.

EN 50626-2 covers requirements and tests for conduit systems buried underground for the protection and management of insulated conductors and/or power cables or communication cables having a specified performance time and which are leak-tight solid wall conduit systems and manufactured in PE, PP and PVC-U.

A conduit system buried underground that conforms to this document is deemed to be safe for use.

This is a European Standard for cable management products used for electro-technical purposes. It relates to the Council Directives on the approximation of laws, regulations and administrative provisions of the Member States relating to Low Voltage Directive 2014/35/EU through consideration of the essential requirements of this directive.

This document is supported by separate standards to which references are made.

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Full document details: BS EN 50626-1:2023

1 Scope

This document specifies requirements and tests for conduit systems with circular cross section buried underground for the protection and management of insulated conductors and/or power cables or communication cables installed individually or installed as a part of an assembly where the cable is installed by pulling or pushing.

This document does not include requirements for leak-tightness according to EN ISO 13259 and performance time.

NOTE 1 EN 50626-2 specifies requirements and tests for performance time and leak-tightness for solid wall conduit systems made of PE, PP and PVC-U buried underground where the cables are installed by blowing or floating or conduits are installed by trenchless methods.

NOTE 2 It is the responsibility of the purchaser or specifier to take into account any relevant national regulations and installation practices or codes when selecting the products to be installed, based on the characteristics specified in this document.

2 Normative references

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.

EN 60529:1991,[1] *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

EN 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 60695-2-11:2014)*

EN 60695-11-2:2017, *Fire hazard testing - Part 11-2: Test flames - 1 kW nominal pre-mixed flame - Apparatus, confirmatory test arrangement and guidance (IEC 60695-11-2:2013)*

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at https://www.electropedia.org/

3.1
conduit system
cable management system consisting of conduits and conduit fittings for the protection and management of insulated conductors and/or cables in electrical or communication installations, allowing them to be drawn in and/or replaced, but not to be inserted laterally

[1] As impacted by EN 60529:1991/A1:2000 and EN 60529:1991/A2:2013.

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3.2
conduit
part of conduit system of circular cross-section for insulated conductors and/or cables in electrical or communication installations, allowing them to be drawn in and/or replaced

3.3
conduit fitting
device designed to join components of a conduit system, or for them to change direction

3.4
terminating conduit fitting
conduit fitting that terminates a conduit system

3.5
metallic conduit and/or conduit fitting
conduit or conduit fitting which consists of metal only

3.6
non-metallic conduit and/or conduit fitting
conduit or conduit fitting which consists uniquely of non-metallic material and which has no metallic components whatsoever

3.7
composite conduit and/or conduit fitting
conduit or conduit fitting comprising both metallic and non-metallic materials

3.8
non-flame propagating conduit and/or conduit fitting
conduit or conduit fitting which is liable to catch fire as a result of an applied flame, but in which the flame does not propagate, and which extinguishes itself within a limited time after the flame is removed

3.9
plain conduit
conduit in which the profile is even in the longitudinal section

Note 1 to entry: The intermediate layer of a plain conduit can be corrugated.

Note 2 to entry: A typical example is shown in Figures A.1 and A.4.

3.10
corrugated conduit
conduit in which the profile is corrugated in the longitudinal section

Note 1 to entry: Both annular and helical corrugated conduits are permissible.

Note 2 to entry: A typical example is shown in Figure A.2

3.11
combined corrugated conduit and plain conduit
conduit in which the internal side is plain and external side is corrugated

Note 1 to entry: A typical example is shown in Figure A.3.

3.12
rigid conduit
conduit which cannot be bent, or which can only be bent with the help of a mechanical aid, with or without special treatment

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