

MAA-ALUSED PAIGALDUSTORUSÜSTEEMID
ISOLEERITUD ELEKTRIKAABLITE VÕI SIDEKAABLITE
KAITSEKS JA KÄITLEMISEKS. OSA 1: ÜLDNÕUDED

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 50626-1:2023 sisaldab Euroopa standardi EN 50626-1:2023 ingliskeelset teksti.	This Estonian standard EVS-EN 50626-1:2023 consists of the English text of the European standard EN 50626-1:2023.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 21.07.2023.	Date of Availability of the European standard is 21.07.2023.
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ICS 29.120.10

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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

This European Standard was approved by CENELEC on 2021-10-25. 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

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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.

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.

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.