ICS 29.120.10 SLOVENSKÁ TECHNICKÁ NORMA November 2023

STN	**Systémy elektroinštalačných rúrok uložených v zemi na ochranu a vedenie izolovaných elektrických káblov alebo komunikačných káblov Časť 2: Potrubné systémy z polyetylénu (PE), polypropylénu (PP) alebo nemäkčeného polyvinylchloridu (PVC-U) Požiadavky na plnostenné potrubia, tvarovky a systém používaný v špeciálnych aplikáciách**	**STN EN 50626-2** 37 0000

Conduit systems buried underground for the protection and management of insulated electrical cables or communication cables - Part 2: Polyethylene (PE), Polypropylene (PP) or Unplasticized poly(vinyl chloride) (PVC-U) conduit systems - Requirements for solid wall conduits, fittings and the system used in special applications

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/23

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EN 50626-2

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English Version

Conduit systems buried underground for the protection and management of insulated electrical cables or communication cables - Part 2: Polyethylene (PE), Polypropylene (PP) or Unplasticized poly(vinyl chloride) (PVC-U) conduit systems - Requirements for solid wall conduits, fittings and the system used in special applications

Systèmes de conduits enterrés dans le sol pour la protection et la gestion des câbles électriques isolés ou des câbles de communication - Partie 2: Systèmes de conduits en polyéthylène (PE), en polypropylène (PP) ou en poly(chlorure de vinyle) non plastifié (PVC-U) - Exigences pour les conduits à paroi pleine, les accessoires et le système utilisé dans les applications spéciales

Erdverlegte Elektroinstallationsrohrsysteme für den Schutz und die Führung isolierter elektrischer Kabel oder Fernmeldekabel - Teil 2: Elektroinstallationsrohrsysteme aus Polyethylen (PE), Polypropylen (PP) oder weichmacherfreiem Poly(vinylchlorid) (PVC-U) - Anforderungen an Vollwandrohre, Rohrzubehörteile und spezielle Anwendungen

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European foreword

This document (EN 50626-2:2023) 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)	2024-06-19
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2026-06-19

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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, each 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 having a specified performance time and which are leak-tight solid wall conduit systems and manufactured in PE, PP and PVC-U.

EN 50626-1 covers requirements and tests for conduit systems buried underground for the protection and management of insulated conductors and/or power cables or communication cables.

For on-site storage, CEN/TS 1046 can be used as a guidance.

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 PE, PP and PVC-U leak-tight solid wall conduit systems with circular cross section, manufactured individually or as part of an assembly having a specified performance time and buried underground to a maximum depth of 6 m for the protection and management of insulated conductors and/or power cables or communication cables.

Applications that require leak-tight solid wall conduit systems are:

— installation of cables in conduits by blowing;

— installation of cables in conduits by floating;

— trenchless installation of conduits.

This document is applicable to conduits with or without integral socket and fittings.

NOTE 1 Conduits in which cables are installed by blowing or floating can also be installed by conventional methods.

NOTE 2 Installation of cables can also be done by pulling and pushing.

NOTE 3 Within a thermoplastic conduit system, fittings made of other materials can be used but they are not specified in this document.

NOTE 4 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.

NOTE 5 Microducts are covered by the relevant part of the EN 60794 series.

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 681-1:1996, *Elastomeric seals - Materials requirements for pipe joint seals used in water and drainage applications - Part 1: Vulcanized rubber*

EN 681-2:2000, *Elastomeric Seals - Materials requirements for pipe joint seals used in water and drainage applications - Part 2: Thermoplastic elastomers*

EN 1905:1998, *Plastics piping systems - Unplasticized poly(vinyl chloride) (PVC-U) pipes, fittings and material - Method for assessment of the PVC content based on total chlorine content*

EN 12099:1997, *Plastics piping systems - Polyethylene piping materials and components - Determination of volatile content*

EN 15346:2014, *Plastics - Recycled plastics - Characterization of poly(vinyl chloride) (PVC) recyclates*

EN 50626-1:2023, *Conduit systems buried underground for the protection and management of insulated electrical cables or communication cables - Part 1: General requirements*

EN ISO 472:2013, *Plastics - Vocabulary (ISO 472:2013)*

EN ISO 580:2005, *Plastics piping and ducting systems - Injection-moulded thermoplastics fittings - Methods for visually assessing the effects of heating (ISO 580:2005)*

EN ISO 1043-1:2011,[1] *Plastics - Symbols and abbreviated terms - Part 1: Basic polymers and their special characteristics (ISO 1043-1:2001)*

EN ISO 1133-1:2022, *Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 1: Standard method (ISO 1133-1:2022)*

EN ISO 1167-1:2006, *Thermoplastics pipes, fittings and assemblies for the conveyance of fluids - Determination of the resistance to internal pressure - Part 1: General method (ISO 1167-1:2006)*

EN ISO 1167-2:2006, *Thermoplastics pipes, fittings and assemblies for the conveyance of fluids - Determination of the resistance to internal pressure - Part 2: Preparation of pipe test pieces (ISO 1167-2:2006)*

EN ISO 1183-1:2019, *Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1:2019, Corrected version 2019-05)*

EN ISO 1183-2:2019, *Plastics - Methods for determining the density of non-cellular plastics - Part 2: Density gradient column method (ISO 1183-2:2019)*

EN ISO 2505:2005, *Thermoplastics pipes - Longitudinal reversion - Test method and parameters (ISO 2505:2005)*

EN ISO 2507-1:2017, *Thermoplastics pipes and fittings - Vicat softening temperature - Part 1: General test method (ISO 2507-1:1995)*

EN ISO 3126:2005, *Plastics piping systems - Plastics components - Determination of dimensions (ISO 3126:2005)*

EN ISO 3451-1:2019, *Plastics - Determination of ash - Part 1: General methods (ISO 3451-1:2019)*

EN ISO 3451-5:2002, *Plastics - Determination of ash - Part 5: Poly(vinyl chloride) (ISO 3451-5:2002)*

EN ISO 6259-1:2015, *Thermoplastics pipes - Determination of tensile properties - Part 1: General test method (ISO 6259-1:2015)*

EN ISO 6259-2:2020, *Thermoplastics pipes - Determination of tensile properties - Part 2: Pipes made of unplasticized poly(vinyl chloride) (PVC-U), oriented unplasticized poly(vinyl chloride (PVC-O), chlorinated poly (vinyl chloride) (PVC-C) and high-impact poly (vinyl chloride) (PVC-HI) (ISO 6259-2:2020)*

EN ISO 9852:2017, *Unplasticized poly(vinyl chloride) (PVC-U) pipes - Dichloromethane resistance at specified temperature (DCMT) - Test method (ISO 9852:2007)*

EN ISO 9969:2016, *Thermoplastics pipes - Determination of ring stiffness (ISO 9969:2016)*

EN ISO 11173:2017, *Thermoplastics pipes - Determination of resistance to external blows - Staircase method (ISO 11173:1994)*

EN ISO 11357-6:2018, *Plastics - Differential scanning calorimetry (DSC) - Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT) (ISO 11357-6:2018)*

EN ISO 13259:2020, *Thermoplastics piping systems for underground non-pressure applications - Test method for leaktightness of elastomeric sealing ring type joints (ISO 13259:2020)*

ISO 5893:2019, *Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Specification*

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[1] As impacted by EN ISO 1043-1:2011/A1:2016.

ISO 18373-1:2007, *Rigid PVC pipes — Differential scanning calorimetry (DSC) method — Part 1: Measurement of the processing temperature*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN