ÕHUKAABLID NIMIPINGEGA UO/U(UM): 0,6 / 1 (1,2) KV

Overhead distribution cables of rated voltage U0/U(Um): 0,6/1 (1,2) kV

EESTI STANDARDIMIS- JA AKREDITEERIMISKESKUS
ESTONIAN CENTRE FOR STANDARDISATION AND ACCREDITATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-HD 626-S2:2025 sisaldab Euroopa standardi HD 626-S2:2025 ingliskeelset teksti.	This Estonian standard EVS-HD 626-S2:2025 consists of the English text of the European standard HD 626-S2:2025.
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 17.10.2025.	Date of Availability of the European standard is 17.10.2025.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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HD 626-S2

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English Version

Overhead distribution cables of rated voltage $U_0/U(U_m)$: 0,6/1 (1,2) kV

Câbles de distribution aériens de tension assignée $U_0/U(U_m)$: 0,6/1 (1,2) kV

Isolierte Freileitungsseile für oberirdische Verteilungsnetze mit Nennspannungen $U_0/U(U_m)$: 0,6/1 (1,2) kV

This Harmonization Document was approved by CENELEC on 2025-10-06. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document at national level.

Up-to-date lists and bibliographical references concerning such national implementations may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye 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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Contents

Page

European foreword 3
Introduction 4
1 Scope 7
1.1 General 7
1.2 Object 7
2 Normative references 7
3 Terms and definitions 7
3.1 Definitions relating to insulating and sheathing materials 7
3.2 Definitions relating to the tests 8
3.3 Other 9
4 Marking 9
4.1 Indication of origin 9
4.1.1 General 9
4.1.2 Continuity of marks 10
4.2 Additional marking 10
4.3 Durability 10
4.4 Legibility 10
4.5 Common marking 10
4.6 Use of the name CENELEC 10
5 Core identification 10
6 General requirements for the construction of cables 12
6.1 General 12
6.2 Conductors 12
6.2.1 Material 12
6.2.2 Electrical resistance 12
6.2.3 Separator tape 12
6.3 Insulation or insulating sheath 12
6.3.1 Material 12
6.3.2 Application 12
6.3.3 Colour of the insulation 12
6.3.4 Thickness 13
6.3.5 Mechanical properties before and after ageing 13
6.3.6 Additional properties 13
6.4 Oversheath (if any) 13
6.4.1 Material 13
6.4.2 Application 13

Part 1

6.4.3 Colour of the sheath 13
6.4.4 Thickness 13
6.4.5 Mechanical properties before and after ageing 13
6.4.6 Other properties 13
6.5 Assembly of cores 13
7 Tests on completed cables 14
8 Sealing and packing 14
9 Current carrying capacity 14
10 Guide to use and selection of cables 14
Annex A (normative) Guide to use and selection of cables 25
A.1 Recommendations for use 25
A.1.1 Permissible applications 25
A.1.2 Highest permissible voltage 25
A.2 Recommendations for storage and transportation 25
A.2.1 Delivery 25
A.2.2 Cable-end sealing 26
A.2.3 Transport 26
A.3 Recommendations for cable laying and installation 27
A.3.1 Installation and operating conditions 27
A.3.2 Minimum permissible installation temperature 27
A.3.3 Cable laying 28
A.3.3.1 Pulling by cable stocking 28
A.3.3.2 Cable route 28
A.4 Minimum bending radius 28
Bibliography 29

European foreword

This document (HD 626 S2:2025) has been prepared by CLC/TC 20, “Electric cables”.

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)	2026-10-31
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2028-10-31

This document supersedes HD 626 S1:1996 and all of its amendments and corrigenda (if any).

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.

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.

References to other HDs, ENs and International Standards are given in the particular parts or sections.

Part 1

Introduction

This edition has been prepared to cover the latest market requests on overhead distribution cables of rated voltage Uo/U(Um): 0,6/1 (1,2) kV. Since the publication of the first edition in 1996 and the amendments in 1997 and 2002, a number of particular sections have been withdrawn, new sections have been added from countries not covered in the first edition, technical improvements have been added and a number of references to test method standards were updated. The Table of Contents indicates even the withdrawn sections.

Part 1 of this document contains the General Requirements applicable to cables for overhead distribution and service, specified in the particular sections of Parts 3 to 10. In general, bundle assembled cores are specified. Single core cables are specified in Part 9.

The document contains the following Parts, arranged according to the main constructional features of the cables covered:

HD 626 Part 1 General Requirements

HD 626 Part 2 Additional Test Methods

HD 626 Part 3 PE insulated self-supporting cables, (bundle assembled cores)

HD 626 Part 4 XLPE insulated self-supporting cables, (bundle assembled cores)

HD 626 Part 5 PE insulated cables with messenger, (bundle assembled cores)

HD 626 Part 6 XLPE insulated cables with messenger, (bundle assembled cores)

HD 626 Part 7 XLPE insulated and sheathed self-supporting cables, (bundle assembled cores)

HD 626 Part 8 XLPE insulated and PVC sheathed cables with messenger, (bundle assembled cores)

HD 626 Part 9 Single core cables

HD 626 Part 10 Service cables with concentric neutral conductor

Each of Parts 3 to 10 inclusive contains a number of Sections, and the Technical Board has agreed (D68/047, Brussels, June 1991) that National Committees need at present only implement in their national language those Sections having national applicability. The obligation remains however to announce the full HD in public by titles and numbers, and also to withdraw any conflicting national standards.

Page numbering reflects the arrangement into Parts and Particular sections, e.g. Page 5-D-6 is Page 6 of Particular Section D of Part 5.

CONTENTS (HD 626 S2:2025)

PART 0 CONTENTS OF HD 626

PART 1 GENERAL REQUIREMENTS

PART 2 ADDITIONAL TEST METHODS

PART 3 PE INSULATED SELF SUPPORTING CABLES (bundle assembled cores)

3 A Bundle assembled cores for overhead distribution and service (Type 3A-1) (Cables with aluminium conductors)

3 C Withdrawn

3 I Bundle assembled cores for overhead service (Type 3 I-1) (Cables with aluminium conductors)

3 L Bundle assembled cores for overhead distribution and service (Type 3L-1) (Cables with aluminium conductors)

PART 4 XLPE INSULATED SELF SUPPORTING CABLES (bundle assembled cores)

4 B Bundle assembled cores for overhead service (Types 4B-1 and 4B-2)
(*Cables with aluminium conductors (Type 4B-1) or with copper conductors (Type 4B-2)*)

4 E Bundle assembled cores for overhead service (Type 4E-1)
(*Cables with aluminium conductors*)

4 F Bundle assembled cores for overhead distribution and service (Type 4F-1)
(*Cables with aluminium conductors*)

4 G *Withdrawn*

4 J Bundle assembled cores for overhead service (Types 4J-1 and 4J-2)
(*Cables with aluminium conductors (Type 4J-1) or with copper conductors (Type 4J-2)*)

4 K Bundle assembled cores for overhead service (Type 4K 1)
(*Cables with aluminium conductors*)

4 M Bundle assembled cores for overhead distribution and service (Type 4M-1)
(*Cables with aluminium conductors*)

4 N Bundle assembled cores for overhead distribution (Type 4N-1)
(*Cables with aluminium conductors*)

4 O Insulated overhead distribution cables of rated voltage Uo/U(Um): 0,6/1 (1,2) kV

4 P Bundle assembled cores for overhead distribution and service (Type 4P-1 and Type 4P-2)

PART 5 PE INSULATED CABLES WITH MESSENGER (bundle assembled cores)

5 D Bundle assembled cores for overhead distribution and service (Type 5D-1)
(*Cables with aluminium phase conductors and uninsulated aluminium alloy neutral conductor*)

5 I *Withdrawn*

PART 6 XLPE INSULATED CABLES WITH MESSENGER (bundle assembled cores)

6 B Bundle assembled cores for overhead distribution (Type 6B-1)
(Cables with aluminium phase conductors and aluminium alloy neutral conductor)

6 D *Withdrawn*

6 E Bundle assembled cores for overhead distribution (Type 6E-1)
(Cables with aluminium phase conductors and aluminium alloy neutral conductor)

6 J Bundle assembled cores for overhead distribution (Type 6J-1)
(Cables with aluminium phase conductors and aluminium alloy neutral conductor)

6 K Bundle assembled cores for overhead distribution (Type 6K-1)
(Cables with aluminium phase conductors and aluminium alloy neutral conductor)

6 N Bundle assembled cores for overhead distribution (Type 6N-1)
(Cables with aluminium phase conductors and aluminium alloy neutral conductor)

PART 7 XLPE INSULATED AND SHEATHED SELF SUPPORTING CABLES (bundle assembled cores)

7 H Bundle assembled cores for overhead distribution and service (type 7H), Self-supporting XLPE insulated cables
(Cables with tinned copper phase conductors and tinned copper neutral conductor)

PART 8 XLPE INSULATED AND SHEATHED CABLES WITH MESSENGER (bundle assembled cores)

8 H Bundle assembled cores for overhead distribution and service (type 8H), Neutral conductor messenger XLPE insulated cables
(Cables with aluminium phase conductors and aluminium alloy neutral conductor)

Part 1

PART 9 Single core cables

9 F *Withdrawn*

9 G *Withdrawn*

9 I *Withdrawn*

9 N Single cores for overhead distribution (Type 9N-1 and Type 9N-2)
(EPR insulated and PCP sheath cables with aluminium conductors Type 9N-1 or with copper conductors Type 9N-2)

PART 10 Service cables with concentric neutral conductor

10 N Single core and three cores service cables with concentric neutral conductor (Type 10N)
(Cables with tinned copper phase conductors and tinned copper concentric neutral conductor)

1 Scope

1.1 General

This document applies to cables of rated voltage $U_0/U(U_m)$ = 0,6/1(1,2) kV used in overhead power distribution systems mainly for public distribution, of maximum system voltage not exceeding 1,2 kV.

This part (Part 1) specifies the general requirements applicable to these cables, unless otherwise specified in the particular sections of this HD.

Test methods are specified in EN 60228:2005, EN 60332-1 series, EN 60811 series and in HD 605 or in Part 2 of this HD. The particular types of cables are specified in Parts 3 to 10.

1.2 Object

The objects of this document are:

— to standardize cables that are safe and reliable when properly used and equipped with appropriate accessories, in relation to the technical requirements of the system of which they form a part,

— to state the characteristics and manufacturing requirements which have a direct or indirect bearing on safety,

— and to specify methods for checking conformity with those requirements.

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 853:2015, *Rubber hoses and hose assemblies - Wire braid reinforced hydraulic type - Specification*

EN 60228:2005, *Conductors of insulated cables*

HD 60364-5-52:2011, *Low-voltage electrical installations - Part 5-52: Selection and erection of electrical equipment - Wiring systems (IEC 60364-5-52:2009)*

HD 605 S3:2019, *Electric cables - Additional test methods*

IEC 60287-1-1:2006, *Electric cables - Calculation of the current rating - Part 1-1: Current rating equations (100 % load factor) and calculation of losses - General*

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 http://www.electropedia.org/

3.1 Definitions relating to insulating and sheathing materials

3.1.1
insulating and sheathing materials
types of insulating and sheathing compounds covered in this document and listed below, together with their abbreviated designations