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System for cable designation

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-HD 361 S4:2020 sisaldab Euroopa standardi HD 361 S4:2020 ingliskeelset teksti.	This Estonian standard EVS-HD 361 S4:2020 consists of the English text of the European standard HD 361 S4:2020.
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.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 25.09.2020.	Date of Availability of the European standard is 25.09.2020.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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

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English Version

## System for cable designation

Système de désignation de câbles

System für Typkurzzeichen von isolierten Leitungen

This Harmonization Document was approved by CENELEC on 2020-08-31. 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, Turkey 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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## European foreword

This document (HD 361 S4:2020) 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) 2021-08-31
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-08-31

This document supersedes HD 361 S3:1999 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.

## Introduction

HD 361 was adopted by CENELEC on 18 November 1976. A second edition was published in 1986. The third edition (1999) restricted the rated voltage of cables covered by this HD to an upper limit of 450/750V, and to harmonized cables and cords or Recognized National Types (RNT).

This fourth edition incorporates amendment HD 361 S3:1999/A1:2006 to HD 361 S3:1999, which recognized the discontinuation of the system of RNT, and expands the cable types to include EN 50618 and EN 50620. The incorporation of the former raises the upper voltage limit to 1000/1000 V.

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## 1 Scope

This document details a designation system for harmonized power cables and cords according to EN 50525 (series), EN 50214, EN 50618 and EN 50620.

NOTE The use of the system for Recognized National Types of cable or cord has been withdrawn by CLC/TC 20. For non-harmonized cables, National Committees are permitted to use any designation that does not conflict with this HD, but see Tables 2 and 4 for recommendations.

## 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 60228, *Conductors of insulated cables (IEC 60228)*

IEC 60050-461, *International Electrotechnical Vocabulary (IEV) - Part 461: Electric cables*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-461 apply.

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

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

## 4 Basic elements of the designation

The cable designation shall be composed of three parts indicating the essential characteristics of a cable (Table 1).

**Table 1 — Basic elements of the cable description**

Part	Basic elements of the description	See Table(s)
1	Relationship to Standards	2
	Rated voltage	3
2	Construction of the cable, generally in a radial sequence and starting with the insulation material; then after a dash,	4 to 7
	Material and form of conductor(s)	8 and 9
3	Number and size of conductors	10

Part 1 and Part 2 of the designation are generally written without a space and constitute the « type designation » of a cable or cord.

Part 3 of the designation constitutes specific information on the number and size of conductors, when required.

A survey of symbols and their sequence in the cable designation is given in Clause 8.

## 5 Part 1 of the Designation

Part 1 of the designation covers the relationship to standards and the rated voltages. The details are given in Table 2 and Table 3