

Jaotuskaablid nimipingega 0,6 / 1 kV

Distribution cables of rated voltage 0,6/1 kV

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-HD 603 S1:2001 sisaldab Euroopa standardi HD 603 S1:1994 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 10.10.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-HD 603 S1:2001 consists of the English text of the European standard HD 603 S1:1994.</p> <p>This document is endorsed on 10.10.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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ENGLISH VERSION

Distribution cables of rated voltage 0.6/1 kV

Câbles de distribution de
tension assignée 0,6/1 kV

Energieverteilungskabel mit
Nennspannung 0,6/1 kV

This Harmonization Document was approved by CENELEC on 1993-12-08. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning national implementation may be obtained on application to the Central Secretariat 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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HD 603 S1

**DISTRIBUTION CABLES
OF RATED VOLTAGE 0.6 / 1 kV**

PART 0 - CONTENT

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FOREWORD

This Harmonisation Document was prepared by WG09 of CENELEC Technical Committee TC 20 , Electric Cables.

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

HD 603 Part 1	-	General Requirements
HD 603 Part 3	-	PVC Insulated cables unarmoured
HD 603 Part 4	-	PVC Insulated cables armoured
HD 603 Part 5	-	XLPE Insulated cables unarmoured
HD 603 Part 6	-	XLPE Insulated cables armoured
HD 603 Part 7	-	EPR Insulated cables unarmoured
HD 603 Part 8	-	EPR Insulated cables armoured

There is no Part 2, which was to have covered Additional Test Methods. These have been combined with the corresponding Part from HD 604 (0.6 / 1 kV Power Cables with Special Fire Performance for use in Power Stations) to form a separate document, HD 605.

Each of Parts 3 - 8 inclusive contains a number of Sections, and the Technical Board has agreed (D68/047), 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 4-C-3 is page 3 of particular section C of part 4.

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

The following dates were fixed :

latest date of announcement of the HD at national level	(doa)	1994-06-01
latest date of publication of a harmonised national standard	(dop)	1994-12-01
latest date of withdrawal of conflicting national standards	(dow)	1994-12-01

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HD 603 S1:1994

**DISTRIBUTION CABLES
OF RATED VOLTAGE 0.6 / 1 kV**

PART 1 - GENERAL REQUIREMENTS

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REFERENCES

References are made in this Part 1 to other Parts of HD 603 and to other Harmonisation Documents as follows :

- | | |
|--------|---|
| HD 22. | Rubber insulated cables of rated voltages up to and including 450/750 V |
| HD 186 | Marking by inscription for the identification of cores of electric cables having more than five cores |
| HD 361 | System for cable designation |
| HD 383 | Conductors of insulated cables (endorsing IEC 228 and 228A) |
| HD 405 | Test on electric cables under fire condition |
| HD 505 | Common test methods for insulating and sheathing materials of electric cables |
| HD 605 | Electric cables : Additional test methods |
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DISTRIBUTION CABLES OF RATED VOLTAGE 0.6 / 1 kV

PART 1 - GENERAL REQUIREMENTS

1 General

1.1 Scope

HD 603 applies to cables of rated voltage $U_0 / U = 0.6 / 1$ kV used in underground power distribution systems mainly for public distribution, of nominal voltage not exceeding 0.6 / 1 kV A.C.

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 HD 605 and in HD 383, HD 405 and HD 505.

The particular types of cables are specified in Parts 3 to 8.

1.2 Object

The objects of this Harmonization Document are :

- to standardize cables that are safe and reliable when properly used, 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 Definitions

2.1 Definitions relating to insulating and sheathing materials

2.1.1 - Insulating and sheathing materials

The types of insulating and sheathing compounds covered in this HD are listed below, together with their abbreviated designations :

	Insulating and sheathing compounds	See:
1 : Insulation	a) <i>Thermoplastic</i> : Insulating compounds based on: -Polyvinyl chloride or copolymers (PVC)	Table 1
	b) <i>Crosslinked</i> Insulating compound based on : -Crosslinked polyethylene (XLPE) -Ethylene propylene rubber (EPR) -Hard ethylene propylene rubber (HEPR)	Table 2A Table 2B Table 2C
2 : Sheathing	a) <i>Elastomeric</i> : Sheathing compound based on : -Polychloroprene (PCP), -Chlorosulfonated polyethylene (CSP) or similar polymer	Table 3
	b) <i>Thermoplastic</i> : Sheathing compounds based on : -Polyvinyl chloride (PVC) -Polyethylene (PE)	Table 4A Table 4B