Polüvinüülkloriidisolatsiooniga kaablid nimipingega kuni 450/750 V. Osa 5: Paindkaablid

Polyvinyl choloride insulated cables of rated voltages up to and including 450/750 V- Part 5: Flexible cables (cords)

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-HD 21.5 S3:2001 sisaldab Euroopa standardi HD 21.5 S3:1994+A1:1999 ingliskeelset teksti.	This Estonian standard EVS-HD 21.5 S3:2001 consists of the English text of the European standard HD 21.5 S3:1994+A1:1999.
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 .	Date of Availability of the European standard is .
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.

ICS 29.060.20

Võtmesõnad: flexible cables, insulated cables, polyvinyl chloride, rated voltages,

HARMONIZATION DOCUMENT HD 21.5 S3

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT April 1994

UDC 621.315.342.027.43/.45-036.743.22-181.1.001.4.002.2 Supersedes HD 21.5 S2 + A4

Descriptors: Conductor, cable, flexible cable, rigid cable, single core cable, multicore cable, conductor material, flat cable, tinsel cord, compound, polyvinyl chloride, insulation compound, type test, sample test, routine test, nominal voltage, mark, common marking, identification, colour scheme, construction, insulation, filler, sheath, covering, internal covering, extruded covering, thickness, mean value, specified value, electrical resistance, test, tensile strength, elongation at break, ageing, loss of mass, non contamination, heat shock, pressure, high temperature, low temperature, elongation at low temperature, complete cable, overall dimension, bending, flexing,voltage test, insulation resistance, absence of short circuits, spark (test), snatch (test), separation of cores, test (under) fire (conditions), guide to use, test method, frequency of test, unsheathed cable, light sheath, ordinary sheath

ENGLISH VERSION

Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V
Part 5: Flexible cables (cords)
(IEC 227-5:1979, modified)

Conducteurs et câbles isolés au polychlorure de vinyle, de tension assignée au plus égale à 450/750 V
Cinquième partie: Câbles souples
(CEI 227-5:1979, modifiée)

Polyvinylchlorid-isolierte Leitungen mit Nennspannungen bis 450/750 V
Teil 5: Flexible Leitungen
(IEC 227-5:1979, modifiziert)

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Ref. No. HD 21.5 S3:1994 E

FOREWORD

HD 21 was originally adopted by CENELEC on 9th July 1975.

Edition 2 of HD 21 was implemented on 1st January 1984, and at that time contained five parts.

Since 1984, new parts have been published, original parts amended, and in addition HD 505 has superseded HD 385 as the cross-reference for test methods.

This Edition 3 of HD 21 has been introduced to cover the complete revision of the overall dimensions, in line with EN 60719, and was approved by TC20 at its Oslo meeting in June 1992.

HD 21 now has the following parts:

HD 21.1 S2	-	General requirements
HD 21.2 S2	-	Test methods
HD 21.3 S2	-	Non sheathed cables for fixed wiring
HD 21.4 S2	-	Sheathed cables for fixed wiring
HD 21.5 S3	-	Flexible cables (Cords)
HD 21.6	-	(Spare)
HD 21.7 S1	-	Single core non-sheathed cables for internal wiring (90°C conductor temperature)
HD 21.8 S1	-	Single core non-sheathed cables for decorative chains
HD 21.9 S1	-	Single core non-sheathed cables for installation at low temperatures
HD 21.10 S1	-	Extensible leads

References are made, in this Part 5 of HD 21, to other parts of this HD and to other Harmonisation Documents and European Standards as follows:

HD 383	Conductors of insulated cables (Endorsing IEC 228 and 228A)
HD 405.1	Tests on electric cables under fire conditions. Part 1: Test on a single vertical cable (Endorsing IEC 332-1)
HD 505	Common test methods for insulating and sheathing materials of Electric Cables (Endorsing IEC 811)
HD 516	Guide to the use of low voltage harmonised cables
EN 60719	Calculation of the lower and upper limits for the average outer dimensions of cables with circular copper conductors and of rated voltages up to and including 450/750V

In all cases a reference to another HD or International Standard implies the latest edition of that document

The draft of this Harmonization Document was submitted to the CENELEC Unique Acceptance Procedure (UAP) in March 1993 and was approved by CENELEC as HD 21.5 S3 on 8 December 1993.

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 harmonized national standard	(dop)	1994-12-01
- latest date of withdrawal of conflicting national standards	(dow)	1994-12-01

For products which have complied with HD 21.5 S2:1990 and its amendment A4:1991 before 1994-12-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1995-12-01.

CONTENTS

POLYVINYL CHLORIDE INSULATED CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750V

Part 5 : Flexible Cables (Cords)

1. Scope

This part (Part 5) of the HD details the particular specifications for polyvinyl chloride insulated flexible cables (cords).

All cables shall comply with the appropriate requirements given in Part 1 of this HD and the individual types of cable shall each comply with the particular requirements of this Part.

NOTE: The overall dimensions of the cables in this Part of HD 21 have been calculated in accordance with EN 60719.

2. Flat tinsel cord(*)

2.1 Code designation

H03VH-Y.

2.2 Rated voltage

300/300V

2.3 Construction

2.3.1 Conductor

Number of conductors : 2
Each conductor shall comprise a number of strands or groups of strands, twisted together, each strand being composed of one or more flattened wires of copper alloy, helically wound on a thread of cotton, polyamide or similar material.

The conductor resistance shall not exceed the value given in Part 5, Table I, column 5.

2.3.2 Insulation

The insulation shall be polyvinyl chloride compound of Type TI 2 applied around each conductor.

The insulation thickness shall comply with the specified value given in Part 5, Table I, column 1.

The insulation resistance shall be not less than the value given in Part 5, Table I, column 4.

(*) This type is similar to type 227 IEC 41 but has modified requirements.