

Ristseos-isolatsiooniga kaablid nimipingega kuni 450/750 V ja kaasa arvatud. Osa 3: Soojuskindlad pehme silikoonisolatsiooniga kaablid

Cables of rated voltages up to and including 450/750 V and having crosslinked insulation Part 3: Heat resistant silicone rubber insulated cables

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-HD 22.3 S4:2004 sisaldab Euroopa standardi HD 22.3 S4:2004 ingliskeelset teksti.

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English version

**Cables of rated voltages up to and including 450/750 V
and having crosslinked insulation****Part 3: Heat resistant silicone rubber insulated cables**

Conducteurs et câbles isolés
avec des matériaux réticulés de tension
assignée au plus égale à 450/750 V
Partie 3: Conducteurs isolés au silicone
résistant à la chaleur

Starkstromleitungen mit vernetzter
Isolierhülle für Nennspannungen
bis 450/750 V
Teil 3: Wärmebeständige
Silikonaderleitungen

This Harmonization Document was approved by CENELEC on 2004-02-01. 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 such 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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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Foreword

This edition 4 of HD 22.3 has been prepared by Technical Committee CLC/TC 20, Electric cables. It provides a full updating of edition 3, including incorporation of amendment No 1, and introduces other improvements.

HD 22.3 S4 is related to IEC 60245-3:1994, but is not directly equivalent.

HD 22 now has the following parts:

- HD 22.1 S4 - Cables of rated voltages up to and including 450/750 V and having cross-linked insulation - Part 1: General requirements
- HD 22.2 S3 - Test methods
- HD 22.3 S4 - Heat resistant silicone rubber insulated cables
- HD 22.4 S4 - Cords and flexible cables
- HD 22.5 - (Spare)
- HD 22.6 S2 - Arc welding cables
- HD 22.7 S2 - Cables with increased heat resistance for internal wiring for a conductor temperature of 110 °C
- HD 22.8 S2 - Polychloroprene or equivalent synthetic elastomer sheathed cable for decorative chains
- HD 22.9 S2 - Single core non-sheathed cables for fixed wiring having low emission of smoke and corrosive gases
- HD 22.10 S1 - EPR insulated and polyurethane sheathed flexible cables
- HD 22.11 S1 - EVA cords and flexible cables
- HD 22.12 S1 - Heat resistant EPR cords and flexible cables
- HD 22.13 S1 - Single and multicore flexible cables, insulated and sheathed with crosslinked polymer and having low emission of smoke and corrosive gases
- HD 22.14 S2 - Cords for applications requiring high flexibility
- HD 22.15 S1 - Multicore cables insulated and sheathed with heat resistant silicone rubber
- HD 22.16 S1 - Water resistant polychloroprene or equivalent synthetic elastomer sheathed flexible cables

In order that this revision of Part 3 of HD 22 does not introduce unnecessary changes to long-established clause numbers, the normative references (which would otherwise be inserted as Clause 2) are given in Annex A.

The draft Harmonization Document was submitted to the Unique Acceptance Procedure and approved by CENELEC as HD 22.3 S4 on 2004-02-01.

This Harmonization Document supersedes HD 22.3 S3:1995 + A1:1999.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level (doa) 2004-08-01
- latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 2005-02-01
- latest date by which the national standards conflicting with the HD have to be withdrawn (dow) 2006-02-01

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1 Scope

This Part 3 of the HD details the particular specifications for single core silicone rubber insulated cables, with or without silicone rubber sheath, of rated voltage up to and including 300/500 V.

Each cable shall comply with the appropriate requirements given in Part 1 and the particular requirements of this part.

NOTE The overall dimensions of the cables of this part of HD 22 have been calculated in accordance with EN 60719.

2 Heat resistant silicone rubber insulated cable for a maximum conductor temperature of 180 °C¹⁾

2.1 Code designation

H05SJ-U, H05SJ-K

2.2 Rated voltage

300/500 V

2.3 Construction

2.3.1 Conductor

Number of conductors: 1

The conductors shall comply with the requirements given in HD 383: Conductors of Insulated Cables, for Class 1 conductors or Class 5 conductors.

The wires may be plain or metal-coated.

2.3.2 Separator

A separator of suitable material applied around the conductor is optional, even if the wires are not protected by tin or by a metal other than tin.

2.3.3 Insulation

The insulation shall be silicone rubber compound of Type EI 2, applied around the conductor by extrusion in a single layer.

The thickness of insulation shall comply with the specified value given in Part 3, Table 1, column 3.

2.3.4 Outer braid

The core shall be covered by a treated glass fibre braid complying with Part 1, Subclause 5.4.2.

2.3.5 Overall diameter

The mean overall diameter shall be within the limits given in Part 3, Table 1, columns 4 and 5.

¹⁾ This cable type is similar to 60245 IEC 03 but has modified requirements.