

**Kummiisolatsiooniga kaablid  
nimipingega kuni 450/750 V. Osa 15:  
Mitmesoonelised kuumuskindla  
silikoonkummiisolatsiooni ja -mantliga  
kaablid**

Cables of rated voltages up to and including 450/750 V and having cross-linked insulation Part 15:  
Multicore cables insulated and sheathed with heat resistant silicone rubber

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

|                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                 |
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| <p>Käesolev Eesti standard EVS-HD 22.15 S2:2007 sisaldab Euroopa standardi HD 22.15 S2:2007 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 27.04.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p> | <p>This Estonian standard EVS-HD 22.15 S2:2007 consists of the English text of the European standard HD 22.15 S2:2007.</p> <p>This document is endorsed on 27.04.2007 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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| <p><b>Käsitlusala:</b></p> <p>This Part 15 of the HD details the specifications for multicore cables of rated voltage 300/500 V, insulated and sheathed with heat resistance silicone rubber, with or without strain-bearing element. The maximum permissible conductor temperature is 180 °C.</p> | <p><b>Scope:</b></p> <p>This Part 15 of the HD details the specifications for multicore cables of rated voltage 300/500 V, insulated and sheathed with heat resistance silicone rubber, with or without strain-bearing element. The maximum permissible conductor temperature is 180 °C.</p> |
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ICS 29.060.20

Võtmesõnad:

English version

**Cables of rated voltages up to and including 450/750 V  
and having cross-linked insulation -  
Part 15: Multicore cables insulated and sheathed  
with heat resistant silicone rubber**

Conducteurs et câbles isolés avec  
des matériaux réticulés de tension  
assignée au plus égale à 450/750 V -  
Partie 15: Câbles multiconducteurs  
à isolant et gaine en silicone résistant  
à la chaleur

Starkstromleitungen mit vernetzter  
Isolierhülle für Nennspannungen  
bis 450/750 V -  
Teil 15: Wärmebeständige mehradrige  
Silikon-Schlauchleitungen

This Harmonization Document was approved by CENELEC on 2006-12-01. 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 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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**

## Foreword

This Harmonization Document was prepared by the Technical Committee CENELEC TC 20, Electric cables.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as HD 22.15 S2 on 2006-12-01.

This Harmonization Document supersedes HD 22.15 S1:1999.

The following dates were fixed:

- |                                                                                                                                          |       |            |
|------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|
| – latest date by which the existence of the HD has to be announced at national level                                                     | (doa) | 2007-06-01 |
| – latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement | (dop) | 2007-12-01 |
| – latest date by which the national standards conflicting with the HD have to be withdrawn                                               | (dow) | 2008-12-01 |

HD 22, *Cables of rated voltages up to and including 450/750 V and having cross-linked insulation*, now has the following parts:

|                          |                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------|
| HD 22.1 S4               | General requirements                                                                            |
| HD 22.2 S3 <sup>1)</sup> | 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 S3               | Single core halogen-free non-sheathed cables for fixed wiring having low emission of smoke      |
| HD 22.10 S2              | EPR insulated and polyurethane sheathed flexible cables                                         |
| HD 22.11 S2              | EVA cords and flexible cables                                                                   |
| HD 22.12 S2              | Heat resistant EPR cords and flexible cables                                                    |
| HD 22.13 S2              | Halogen-free flexible cables having low emission of smoke                                       |
| HD 22.14 S3              | Cords for applications requiring high flexibility                                               |
| HD 22.15 S2              | Multicore cables insulated and sheathed with heat resistant silicone rubber                     |
| HD 22.16 S2              | Water resistant polychloroprene or equivalent synthetic elastomer sheathed cables               |

<sup>1)</sup> HD 22.2 has been superseded by EN 50395 and EN 50396

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## 1 Scope

This Part 15 of the HD details the specifications for multicore cables of rated voltage 300/500 V, insulated and sheathed with heat resistance silicone rubber, with or without strain-bearing element.

The maximum permissible conductor temperature is 180 °C.

Each cable shall comply with the appropriate requirements given in Part 1 of this HD 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 Normative references

The following referenced documents are indispensable for the application 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 10002-1      | Metallic materials – Tensile testing –<br>Part 1: Method of test at ambient temperature                                                                                                                          |
| EN 50363-1      | Insulating, sheathing and covering materials for low voltage energy<br>cables –<br>Part 1: Cross-linked elastomeric insulating compounds                                                                         |
| EN 50363-2-1    | Insulating, sheathing and covering materials for low voltage energy<br>cables –<br>Part 2-1: Cross-linked elastomeric sheathing compounds                                                                        |
| EN 50395        | Electrical test methods for low voltage energy cables                                                                                                                                                            |
| EN 50396        | Non-electrical test methods for low voltage energy cables                                                                                                                                                        |
| EN 60228        | Conductors of insulated cables (IEC 60228)                                                                                                                                                                       |
| EN 60332-1-2    | Tests on electric and optical fibre cables under fire conditions –<br>Part 1-2: Test for vertical flame propagation for a single insulated wire or<br>cable – Procedure for 1 kW pre-mixed flame (IEC 60332-1-2) |
| EN 60811 series | Insulating and sheathing materials of electric and optical fibre cables –<br>Common test methods (IEC 60811 series)                                                                                              |

## 3 Heat resistant silicone rubber sheathed multicore flexible cables without strain-bearing element

### 3.1 Code designation

H05SS-F for unbraided cables without strain-bearing element.

H05SST-F for braided cables without strain-bearing element.

### 3.2 Rated voltage

300/500 V.