

**Kaablid ja juhtmed. Madalpingelised tugevoolujuhtmed  
nimipingega kuni 450/750 V (U<sub>0</sub>/U). Osa 2-41:  
Üldtarbejuhtmed. Ühesoonelised  
võrksilikoorkummiisolatsiooniga juhtmed**

Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U<sub>0</sub>/U) - Part 2-41: Cables for general applications - Single core cables with crosslinked silicone rubber insulation

## EESTI STANDARDI EESSÕNA

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English version

**Electric cables -  
Low voltage energy cables of rated voltages up to and including 450/750 V  
( $U_0/U$ ) -  
Part 2-41: Cables for general applications -  
Single core cables with crosslinked silicone rubber insulation**

Câbles électriques -  
Câbles d'énergie basse tension de tension  
assignée au plus égale à 450/750 V  
( $U_0/U$ ) -  
Partie 2-41: Câbles pour applications  
générales -  
Conducteurs isolés en silicone réticulé

Kabel und Leitungen -  
Starkstromleitungen mit Nennspannungen  
bis 450/750 V ( $U_0/U$ ) -  
Teil 2-41: Starkstromleitungen für  
allgemeine Anwendungen -  
Einadrige Leitungen mit vernetzter Silikon-  
Isolierung

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

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## Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 20, Electric cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50525-2-41 on 2011-01-17.

This document, which is one of a multipart series, supersedes HD 22.3 S4:2004 + A1:2006.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-01-17
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2014-01-17

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## 1 Scope

EN 50525-2-41 applies to cross-linked silicone rubber insulated single core cables. The types included are either insulated only, or insulated and braided, or insulated and sheathed.

The cables are of rated voltages  $U_0/U$  up to and including 300/500 V.

The cables are intended for use in fixed installations within high temperature zones.

The maximum conductor operating temperature for each of the cables in this standard is 180 °C.

NOTE HD 516 contains extensive guidance on the safe use of cables in this standard.

This EN 50525-2-41 should be read in conjunction with EN 50525-1, which specifies general requirements.

## 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.

NOTE One or more references to the standards below are in respect of a specific sub-division of that standard, for instance a clause, a table, a class or a type. Cross-references to these standards are undated and, at all times, the latest version applies.

|              |  |
|--------------|--|
| EN 50363-1   | Insulating, sheathing and covering materials for low voltage energy cables - Part 1: Cross-linked elastomeric insulating compounds   |
| EN 50363-2-1 | Insulating, sheathing and covering materials for low voltage energy cables - 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 50525-1   | Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) - Part 1: General requirements   |
| EN 60228     | Conductors of insulated cables (IEC 60228)   |
| EN 60332-1-2 | Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame (IEC 60332-1-2) |
| EN 60811-1-2 | Insulating and sheathing materials of electric and optical cables - Common test methods - Part 1-2: General application - Thermal ageing methods (IEC 60811-1-2:1985 + A1:1989 + corr. May 1986)           |
| EN 60811-1-4 | Insulating and sheathing materials of electric and optical cables - Common test methods - Part 1-4: General application - Tests at low temperature (IEC 60811-1-4:1985 + A1:1993 + corr. May 1986)         |

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in Clause 3 of EN 50525-1 apply.