

**Kaablid ja juhtmed. Madalpingelised tugevoolujuhtmed  
nimipingega kuni 450/750 V (U<sub>0</sub>/U). Osa 2-83:  
Üldtarbejuhtmed. Mitmesoonelised  
võrksilikoorkummiisolatsiooniga juhtmed**

Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U<sub>0</sub>/U) - Part 2-83: Cables for general applications - Multicore cables with crosslinked silicone rubber insulation

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50525-2-83:2011 sisaldab Euroopa standardi EN 50525-2-83:2011 ingliskeelset teksti.

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Standard on kättesaadav Eesti standardiorganisatsioonist.

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This standard is ratified with the order of Estonian Centre for Standardisation dated 31.05.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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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 2-83: Cables for general applications -  
Multicore 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 2-83: Câbles pour applications  
générales -  
Câbles multiconducteurs isolés au silicone  
réticulé

Kabel und Leitungen -  
Starkstromleitungen mit Nennspannungen  
bis 450/750 V ( $U_0/U$ ) -  
Teil 2-83: Starkstromleitungen für  
allgemeine Anwendungen -  
Mehradrige Leitungen mit vernetzter  
Silikon-Isolierung

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**CENELEC**

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 accepted by CENELEC as EN 50525-2-83 on 2011-01-17.

This document, which is one of a multipart series, supersedes HD 22.15 S2:2007.

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 are proposed:

- 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

This European Standard applies to multicore cables insulated and sheathed with heat resistant crosslinked silicone rubber. Types with or without an overall textile braid, and with or without a strain-bearing element, are included.

The cables are of rated voltages  $U_0/U$  300/500 V.

The cables are intended for use within high temperature zones, either:

- in fixed installations with mechanical protection (cables to 4.1); or
- for flexible use under low mechanical stress (cables to 4.2).

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 50525-2-83 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)
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)
EN ISO 6892-1	2009 Metallic materials – Tensile testing – Part 1: Method of test at room temperature (ISO 6892-1:2009)