Kaablid ja juhtmed. Madalpingelised tugevvoolujuhtmed nimipingega kuni 450/750 V (U0/U). Osa 2-81: Üldtarbejuhtmed. Võrkelastomeerkattega kaarkeevitusjuhtmed

Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U) - Part 2-81: Cables for general applications - Cables with crosslinked elastomeric covering for arc welding

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50525-2-81:2011 sisaldab Euroopa standardi EN 50525-2-81:2011 ingliskeelset teksti.	This Estonian standard EVS-EN 50525-2-81:2011 consists of the English text of the European standard EN 50525-2-81:2011.
Standard on kinnitatud Eesti Standardikeskuse 31.05.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	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.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 06.05.2011.	Date of Availability of the European standard text 06.05.2011.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

ICS 29.060.20

arc-welding, dimension, electrode holder, flexible cable, insulated cable, insulation vulcanised rubber, particular specification, test

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50525-2-81

May 2011

ICS 29.060.20

Supersedes HD 22.6 S2:1995 + corr. Jun.1995 + A1:1999 + A2:2004

English version

Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V (U_0/U) - Part 2-81: Cables for general applications - Cables with crosslinked elastomeric covering for arc welding

Câbles électriques -
Câbles d'énergie basse tension de tension assignée au plus égale à 450/750 V (U_0/U) -
Partie 2-81: Câbles pour applications générales -
Câbles pour soudage à l'arc isolés en matériau élastomère réticulé

Kabel und Leitungen -
Starkstromleitungen mit Nennspannungen bis 450/750 V (U_0/U) -
Teil 2-81: Starkstromleitungen für allgemeine Anwendungen -
Lichtbogenschweißleitungen mit vernetzter Elastomer- Hülle

This European Standard was approved by CENELEC on 2011-01-17. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, 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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 50525-2-81:2011 E

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 50525-2-81 on 2011-01-17.

This document, which is one of a multipart series, supersedes HD 22.6 S2:1995 + A1:1999 + A2:2004.

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

Contents

Tables

1 Scope

This European Standard applies to single core, crosslinked elastomer covered arc welding cables.

The cables are of rated voltage U_0/U 100/100 V.

The cables are intended for connections between the welding power source and the electrode holder and the work piece.

Two types of cable are included, with respectively Class D and Class E conductors. These conductors are more flexible than Class 6 to EN 60228, with Class E having the greater flexibility.

The maximum conductor operating temperature for each of the cables in this standard is 85 °C.

NOTE HD 516 contains extensive guidance on the safe use of cables in this standard, and gives specific current ratings and volt drop data.

This EN 50525-2-81 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 shall apply.

EN 50363-1	Insulating, sheathing and covering materials for low voltage energy cables − Part 1: Cross-linked elastomeric insulating compounds
EN 50363-2-2	Insulating, sheathing and covering materials for low voltage energy cables − Part 2-2: Cross-linked elastomeric covering 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 60811-1-4	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)