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Irish Standard
I.S. HD 22.14 S3:2007

Cables of rated voltages up to and including 450/750 V and having cross-linked insulation -- Part 14: Cords for applications requiring high flexibility

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HARMONIZATION DOCUMENT
DOCUMENT D'HARMONISATION
HARMONISIERUNGSDOKUMENT

HD 22.14 S3

February 2007

ICS 29.060.20

Supersedes HD 22.14 S2:2002

English version

Cables of rated voltages up to and including 450/750 V and having cross-linked insulation – Part 14: Cords for applications requiring high flexibility

Conducteurs et câbles isolés avec des matériaux réticulés de tension assignée au plus égale à 450/750 V – Partie 14: Câbles pour applications nécessitant une flexibilité élevée

Starkstromleitungen mit vernetzter Isolierhülle für Nennspannungen bis 450/750 V – Teil 14: Leitungen für Anwendungen, die hohe Flexibilität erfordern

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
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Ref. No. HD 22.14 S3:2007 E

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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 22.14 S3 on 2006-12-01.

This Harmonization Document supersedes HD 22.14 S2:2002.

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 [1)]	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

[1)] HD 22.2 is superseded by EN 50395 and EN 50396.

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1 Scope

This Part 14 of HD 22 details the particular specifications for EPR insulated and EPR sheathed, XLPVC insulated and XLPVC sheathed, and EPR insulated and textile braid covered cords of rated voltage 300/300 V, for use in applications where high flexibility is required.

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 in 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 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 50363-9-1	Insulating, sheathing and covering materials for low voltage energy cables – Part 9-1: Miscellaneous insulating compounds – Cross-linked polyvinyl chloride (XLPVC)
EN 50363-10-1	Insulating, sheathing and covering materials for low voltage energy cables – Part 10-1: Miscellaneous sheathing compounds – Cross-linked polyvinyl chloride (XLPVC)
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 60811 series	Insulating and sheathing materials of electric and optical fibre cables – Common test methods (IEC 60811 series)

3 EPR insulated and sheathed cord for applications requiring high flexibility

3.1 Code designation

H03RR-H.

3.2 Rated voltage

300/300 V.

3.3 Construction

3.3.1 Conductor

Number of conductors: 2 or 3.

The conductors shall be in accordance with the requirements given in EN 60228 for Class 6 conductors. The wires may be plain or tinned.

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