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Standards

Irish Standard
I.S. EN 50363-0:2011

Insulating, sheathing and covering materials for low-voltage energy cables -- Part 0: General introduction

I.S. EN 50363-0:2011

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EUROPEAN STANDARD
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EUROPÄISCHE NORM

EN 50363-0

March 2011

ICS 29.035.01

Supersedes EN 50363-0:2005

English version

**Insulating, sheathing and covering materials for low-voltage energy
cables -
Part 0: General introduction**

Matériaux pour enveloppe isolante,
gainage et revêtement pour les câbles
d'énergie basse tension -
Partie 0: Introduction générale

Isolier-, Mantel- und
Umhüllungswerkstoffe für
Niederspannungskabel und -leitungen -
Teil 0: Allgemeine Einführung

This European Standard was approved by CENELEC on 2011-03-14. 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

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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 Unique Acceptance Procedure and was approved by CENELEC as EN 50363-0 on 2011-03-14.

This document supersedes EN 50363-0:2005.

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) | 2012-03-14 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2014-03-14 |

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Introduction

EN 50363 contains, in its various parts, the requirements for insulating, sheathing and covering materials that are used for harmonized low voltage energy cables in EN 50525.

The previous edition of EN 50363-0 (2005) showed, in its Annex A, the original location in HD 21 and HD 22 of each material and its place in the full series of EN 50363. For this second edition, this annex has been deleted.

The content of EN 50363 is not, and will not be, restricted only to materials for cables to EN 50525. Other materials for harmonized LV industrial cables may be included. Furthermore, the use of materials in EN 50363 for cables outside EN 50525 is not prohibited, but it is strongly recommended that expert advice be taken before such use, or before any proposal for incorporation into another standard.

1 Scope

EN 50363 contains, in its various parts, the requirements for insulating, sheathing and covering materials that are used for harmonized low voltage energy cables.

EN 50363 is published as this Part 0 together with a series of separately published parts as listed in Table 1 and these parts require that Part 0 be read in conjunction with them. It also includes a list of the test methods called up in the particular parts of the standard, with references to the current editions of other standards in which the relevant test methods are given.

Table 1 — Parts for EN 50363

| Part number | Title | Compounds included |
|--|--|------------------------------------|
| 0 | General introduction | - |
| 1 | Cross-linked elastomeric insulating compounds | EI 2, EI 3, EI 4, EI 6, EI 7 |
| 2-1 | Cross-linked elastomeric sheathing compounds | EM 2, EM 3, EM 4, EM 6, EM 7, EM 9 |
| 2-2 | Cross-linked elastomeric covering compounds | EM 5 |
| 3 | PVC insulating compounds | TI 1, TI 2, TI 3, TI 4, TI 5 |
| 4-1 | PVC sheathing compounds | TM 1, TM 2, TM 3, TM 4, TM 5, |
| 4-2 | PVC covering compounds | TM 6 |
| 5 | Halogen-free, cross-linked insulating compounds | EI 5, EI 8 |
| 6 | Halogen-free, cross-linked sheathing compounds | EM 8, EM 10 |
| 7 | Halogen-free, thermoplastic insulating compounds | TI 6, TI 7 |
| 8 | Halogen-free, thermoplastic sheathing compounds | TM 7 |
| 9-1 ^a | Miscellaneous insulating compounds – Cross-linked polyvinyl chloride (XLPVC) | XI 1 |
| 10-1 ^a | Miscellaneous sheathing compounds – Cross-linked polyvinyl chloride (XLPVC) | XM 1 |
| 10-2 | Miscellaneous sheathing compounds – Thermoplastic polyurethane | TMPU |
| ^a This part is proposed for withdrawal. | | |

Materials for use specifically in utility power cables are not covered by this EN. They can be found in HD 603, HD 604, HD 620, HD 621, HD 622, HD 626 and HD 627.

Materials for use specifically in communications cables are the responsibility of CENELEC TC 46X. At present such materials are given in EN 50290-2-20 to -2-30 inclusive.

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