



NSAI
Standards

Irish Standard
I.S. EN 50363-5:2005

Insulating, sheathing and covering materials for low voltage energy cables -- Part 5: Halogen-free, cross-linked insulating compounds

I.S. EN 50363-5:2005

Incorporating amendments/corrigenda issued since publication:

EN 50363-5:2005/A1:2011

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50363-5/A1

March 2011

ICS 29.035.20

English version

**Insulating, sheathing and covering materials for low voltage energy
cables -
Part 5: Halogen-free, cross-linked insulating compounds**

Matériaux pour enveloppe isolante,
gainage et revêtement pour les câbles
d'énergie basse tension -
Partie 5: Mélanges réticulés sans
halogène pour enveloppe isolante

Isolier-, Mantel- und
Umhüllungswerkstoffe für
Niederspannungskabel und -leitungen -
Teil 5: Halogenfreie, vernetzte
Isoliermischungen

This amendment A1 modifies the European Standard EN 50363-5:2005; it 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 amendment 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 amendment 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

I.S. EN 50363-5:2005

EN 50363-5:2005/A1:2011

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Foreword

This amendment was prepared by the Technical Committee CENELEC TC 20.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 50363-5:2005 on 2011-03-14.

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 |

Table 1

Against EI 8 in column 2 **replace** “70” by “90”.

Table 2

In column 7 for EI 8, against 1.2.1 **replace** “ 110 ± 2 ” by “ 135 ± 2 ” against the temperature.

Against footnote c) **replace** “No positive tolerance” by “No limit for the positive tolerance”.

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EUROPEAN STANDARD

EN 50363-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

ICS 29.035.20

English version

**Insulating, sheathing and covering materials
for low voltage energy cables
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Teil 5: Halogenfreie, vernetzte
Isoliermischungen

This European Standard was approved by CENELEC on 2005-11-01. 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.

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

I.S. EN 50363-5:2005

EN 50363-5:2005

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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 50363-5 on 2005-11-01.

EN 50363 (in all its parts) supersedes the equivalent information at present in HD 21.1 S4, HD 21.14 S1, HD 22.1 S4, HD 22.10 S1, HD 22.14 S2 and prHD 21.15 S1. The existing information in these HDs will be deleted at the next maintenance review.

EN 50363-5 should be read in conjunction with EN 50363-0.

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) | 2006-11-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2007-11-01 |

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1 Scope

This part of EN 50363 specifies the requirements for the physical properties of the harmonised halogen-free, cross-linked insulating compounds given in Table 1. The relevant test methods are given in EN 60811 series, EN 50267-2 (series), EN 60684-2 and EN 50396.

NOTE 1 Requirements for smoke emission, which are based on tests on cables and not individual materials, are given in the relevant cable standard.

NOTE 2 This part of EN 50363 is to be read in conjunction with EN 50363-0.

Table 1 – Types of halogen-free cross-linked insulating compound

Type	Maximum material operating temperature °C	General application
EI 5	90	Ordinary duty
EI 8	70	Ordinary duty for flexible cables

2 Normative references

For the purposes of this part of EN 50363, the requirements of EN 50363-0, Clause 2, apply with regard to normative references.

3 Definitions

For the purposes of this part of EN 50363, the definitions given in EN 50363-0, Clause 3, apply.

4 Properties

Each compound shall meet the particular requirements listed in Table 2, when using the test methods referenced in columns 4 and 5.

NOTE For cross-references to the latest editions of the test method standards see Table 2 of EN 50363-0.

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