



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 50363-1:2005

ICS 29.035.20

**INSULATING, SHEATHING AND COVERING
MATERIALS FOR LOW VOLTAGE ENERGY
CABLES -- PART 1: CROSS-LINKED
ELASTOMERIC INSULATING COMPOUNDS**

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*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland and comes into
effect on:*

December 16, 2005

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EUROPEAN STANDARD

EN 50363-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2005

ICS 29.035.20

English version

**Insulating, sheathing and covering materials
for low voltage energy cables
Part 1: Cross-linked elastomeric insulating compounds**

Matériaux pour enveloppe isolante,
gainage et revêtement pour les câbles
d'énergie basse tension
Partie 1: Mélanges élastomères réticulés
pour enveloppe isolante

Isolier-, Mantel- und
Umhüllungswerkstoffe für
Niederspannungskabel und -leitungen
Teil 1: Vernetzte, elastomere
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.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and 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 formal vote and was approved by CENELEC as EN 50363-1 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 50363-1 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 cross-linked elastomeric insulating compounds given in Table 1. The relevant test methods are given in EN 60811 series and EN 50396.

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

Table 1 – Types of cross-linked elastomeric insulating compound

Type	Maximum material operating temperature °C	General application
EI 2	180	Ordinary duty silicone rubber (SiR)
EI 3	110	Ordinary duty EVA rubber or equivalent
EI 4	60	Ordinary duty ethylene propylene rubber
EI 6	90	Ordinary duty ethylene-propylene rubber or equivalent synthetic elastomer for cables requiring handling down to –40 °C
EI 7	90	Ordinary duty ethylene propylene rubber or equivalent synthetic elastomer

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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