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Standards

Irish Standard  
I.S. EN 50525-2-21:2011

Electric cables - Low voltage energy cables of rated voltages up to and including 450/750 V ( $U_0/U$ ) -- Part 2-21: Cables for general applications - Flexible cables with crosslinked elastomeric insulation

## I.S. EN 50525-2-21:2011

*Incorporating amendments/corrigenda issued since publication:*

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

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EUROPEAN STANDARD

**EN 50525-2-21**

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ICS 29.060.20

Supersedes HD 22.4 S4:2004, HD 22.10 S2:2007, HD 22.11 S2:2007, HD 22.12 S2:2007, HD 22.16 S2:2007

English version

**Electric cables -  
Low voltage energy cables of rated voltages up to and including 450/750 V  
( $U_0/U$ ) -  
Part 2-21: Cables for general applications -  
Flexible cables with crosslinked elastomeric insulation**

Câbles électriques -  
Câbles d'énergie basse tension de tension  
assignée au plus égale à 450/750 V  
( $U_0/U$ ) -  
Partie 2-21: Câbles pour applications  
générales -  
Câbles souples isolés en matériau  
élastomère réticulé

Kabel und Leitungen -  
Starkstromleitungen mit Nennspannungen  
bis 450/750 V ( $U_0/U$ ) -  
Teil 2-21: Starkstromleitungen für  
allgemeine Anwendungen -  
Flexible Leitungen mit vernetzter  
Elastomer-Isolierung

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.

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**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 accepted by CENELEC as EN 50525-2-21 on 2011-01-17.

This document, which is one of a multipart series, supersedes HD 22.4 S4:2004, HD 22 10 S2:2007, HD 22.11 S2:2007, HD 22.12 S2:2007, HD 22.16 S2:2007.

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  
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- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2014-01-17

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## 1 Scope

EN 50525-2-21 applies to flexible cables, insulated with crosslinked elastomeric compound, and sheathed with either crosslinked elastomeric compound or thermoplastic polyurethane (TPU).

The cables are of rated voltages  $U_0/U$  up to and including 450/750 V.

The cables are intended for a variety of applications where appliances or equipment, including heavy industrial equipment, require a flexible connection to the power supply.

The maximum conductor operating temperatures for the cables in this standard are 60 °C (R types), 90 °C (B types) and 110 °C (G types).

The following particular cable types are included:

- General purpose cables (RR and RN types);
- Water-resistant cables (RN8 types);
- General purpose cables (BB and BN4 types);
- TPU sheathed cables (BQ types);
- Heat resistant cables (GG types)

NOTE HD 516 contains extensive guidance on the safe use of cables in this standard.

This EN 50525-2-21 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 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 50363-10-2	Insulating, sheathing and covering materials for low voltage energy cables - Part 10-2: Miscellaneous sheathing compounds - Thermoplastic polyurethane
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)

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