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# Electric cables — Tests on extruded oversheaths with a special protective function

ICS 29.060.20

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This British Standard is the UK implementation of EN 60229:2008. It is identical to IEC 60229:2007.

The UK participation in its preparation was entrusted by Technical Committee GEL/20, Electric cables, to Subcommittee GEL/20/16, Medium/high voltage cables.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2008

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ISBN 978 0 580 58061 1

**Amendments/corrigenda issued since publication**

Date	Comments

NORME EUROPÉENNE  
EUROPÄISCHE NORM

June 2008

ICS 29.060.20

English version

**Electric cables -  
Tests on extruded oversheaths with a special protective function  
(IEC 60229:2007)**

Câbles électriques -  
Essais sur les gaines extérieures  
extrudées avec fonction spéciale  
de protection  
(CEI 60229:2007)

Starkstromkabel -  
Prüfungen an extrudierten Außenmänteln  
mit besonderer Schutzfunktion  
(IEC 60229:2007)

This European Standard was approved by CENELEC on 2008-05-01. 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, 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  
Europäisches Komitee für Elektrotechnische Normung

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

## Foreword

The text of the International Standard IEC 60229:2007, prepared by IEC TC 20, Electric cables, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 60229 on 2008-05-01 without any modification.

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) 2009-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-05-01

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60229:2007 was approved by CENELEC as a European Standard without any modification.

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## **ELECTRIC CABLES – TESTS ON EXTRUDED OVERSHEATHS WITH A SPECIAL PROTECTIVE FUNCTION**

### **1 Scope**

This International Standard provides a range of tests which may be required for electric cables which have an extruded oversheath and where that oversheath performs a special protective function.

NOTE 1 The need for the special functions may be independent of the nature of the insulation type or independent of the rated voltage of the cable.

The standard covers cables for use in insulated systems and in uninsulated systems.

The tests are categorized for use as

- a) routine tests,
- b) type tests,
- c) tests after installation.

These tests comprise:

- electrical routine tests on cable oversheath used in insulated or uninsulated systems,
- abrasion and corrosion spread type tests,
- electrical test on cable oversheath after installation.

Routine tests and tests after installation, as specified in the relevant cable standards, are applicable for all situations.

Type tests depend upon the nature of the system and the construction of the cable and do not have to be carried out for normal conditions of use.

The application of the abrasion test is given in Annex A.

NOTE 2 Guidance on tests after installation is given in Annex B.

### **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.

IEC 60230, *Impulse tests on cables and their accessories*

IEC 62230, *Electric cables – Spark test method*

### **3 Routine tests**

The electrical integrity of the oversheath shall be tested using either a d.c. voltage test (3.1) or a spark test (3.2).