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Standards

Irish Standard
I.S. EN 50396:2005

Non electrical test methods for low voltage energy cables

I.S. EN 50396:2005

Incorporating amendments/corrigenda issued since publication:

EN 50396:2005/A1:2011

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<p><i>This document replaces:</i> Partially supersedes HD 21.2 S3:1997 + A1:2002 + HD 22.2 S3:1997 + A1:2002</p>	<p><i>This document is based on:</i> EN 50396:2005</p>	<p><i>Published:</i> 19 August, 2005</p>
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 50396/A1

March 2011

ICS 29.060.20

English version

Non electrical test methods for low voltage energy cables

**Méthodes d'essais non électriques pour
les câbles d'énergie basse tension**

**Nicht-elektrische Prüfverfahren für
Niederspannungskabel und -leitungen**

This amendment A1 modifies the European Standard EN 50396:2005; 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 50396:2005

EN 50396:2005/A1:2011

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Foreword

This amendment 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 amendment A1 to EN 50396:2005 on 2011-03-14.

The following dates were fixed:

- latest date by which the amendment 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 amendment have to be withdrawn (dow) 2014-03-14
-

3 General test requirements

In 3.1, line 3, **replace** 5.1 by 4.1.

Table 1 b

In note (1) **replace** “in Table A” by “in this table”

Bibliography

Delete the following entries:

EN 50266 series	Common test methods for cables under fire conditions - Test for vertical flame spread of vertically-mounted bunched wires or cables
EN 50267 series	Common test methods for cables under fire conditions - Tests on gases evolved during combustion of material from cables
EN 50268 series	Common test methods for cables under fire conditions - Measurement of smoke density of cables burning under defined conditions

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EUROPEAN STANDARD

EN 50396

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2005

ICS 29.060.20

Partially supersedes HD 21.2 S3:1997 + A1:2002 &
HD 22.2 S3:1997 + A1:2002

English version

Non electrical test methods for low voltage energy cables

**Méthodes d'essais non électriques
pour les câbles d'énergie basse tension**

**Nicht-elektrische Prüfverfahren
für Niederspannungskabel und -leitungen**

This European Standard was approved by CENELEC on 2005-07-01. 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
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I.S. EN 50396:2005

EN 50396:2005

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Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 20, Electric cables. In accordance with the decision of TC 20 at its Setubal meeting (June 2004), the text of the draft was submitted to the formal vote. It was approved by CENELEC as EN 50396 on 2005-07-01.

This European Standard, together with EN 50395:2005, supersedes HD 21.2 S3:1997 + A1:2002 and HD 22.2 S3:1997 + A1:2002.

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 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2008-07-01
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Introduction

EN 50396 contains the non-electrical test methods that are used for harmonized low voltage energy cables. These non-electrical test methods include all those previously contained in HD 21 and HD 22. Annex A gives a comparison between the original location of each test method and its place in this new EN.

The content of EN 50396 is not, and will not be, restricted only to test methods for cables to HD 21 and HD 22. Other test methods for harmonized LV cables may be included. Furthermore, the use of test methods in EN 50396 for cables outside HD 21 and HD 22 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 50396 contains non-electrical test methods required for the testing of harmonized low voltage energy cables, especially those rated at up to and including 450/750 V.

NOTE 1 A description of the origin of these test methods and of the background to the EN are given in the Introduction and Annex A.

The particular cable standard dictates the tests which need to be performed on the relevant cable type. It also specifies whether the specific test is a type test (T), a sample test (S) or a routine test (R) for the particular cable type.

NOTE 2 T, S and R are defined in the relevant cable standard.

The requirements to be met during or after the test are specified for the particular cable type in the relevant cable standard. However, some test requirements are obvious and universal, such as the fact that no cracks shall occur during ozone test, and these are stated in the particular test method.

Test methods for use specifically in utility power cables are not covered by this EN. They can be found in HD 605.

Test methods for use specifically in communications cables are the responsibility of CENELEC TC 46X. At present such test methods are given in EN 50289 (series).

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>
EN 60332-1-2	2004	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame
EN 50395	2005	Electrical test methods for low voltage energy cables
EN 60695-11-5	2005	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance

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