Irish Standard
I.S. EN 60626-3:2008

Combined flexible materials for electrical insulation -- Part 3: Specifications for individual materials (IEC 60626-3:2008 (EQV))

I.S. EN 60626-3:2008

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60626-3/A1

September 2012

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English version

Combined flexible materials for electrical insulation - Part 3: Specifications for individual materials

(IEC 60626-3:2008/A1:2012)

Matériaux combinés souples destinés à l'isolement électrique -
Partie 3: Spécifications pour matériaux particuliers
(CEI 60626-3:2008/A1:2012)

Flexible Mehrschichtisolierstoffe zur elektrischen Isolierung -
Teil 3: Bestimmungen für einzelne Materialien
(IEC 60626-3:2008/A1:2012)

This amendment A1 modifies the European Standard EN 60626-3:2008; it was approved by CENELEC on 2012-08-21. 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.

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 60626-3:2008/A1:2012 E

Foreword

The text of document 15/647/CDV, future edition 1 of IEC 60626-3:2008/A1, prepared by IEC TC 15 "Solid electrical insulating materials" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60626-3:2008/A1:2012.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2013-05-21
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-08-21

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60626-3:2008/A1:2012 was approved by CENELEC as a European Standard without any modification.

I.S. EN 60626-3:2008

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60626-3

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English version

Combined flexible materials for electrical insulation - Part 3: Specifications for individual materials
(IEC 60626-3:2008)

Matériaux combinés souples destinés à l'isolement électrique - Partie 3: Spécifications pour matériaux particuliers (CEI 60626-3:2008)

Flexible Mehrschichtisolierstoffe zur elektrischen Isolierung - Teil 3: Bestimmungen für einzelne Materialien (IEC 60626-3:2008)

This European Standard was approved by CENELEC on 2008-08-01. 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

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Ref. No. EN 60626-3:2008 E

Foreword

The text of document 15/442/FDIS, future edition 3 of IEC 60626-3, prepared by IEC TC 15 "Solid electrical insulating materials", was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60626-3 on 2008-08-01.

This European Standard supersedes EN 60626-3:1996 + A1:1999.

The main changes from EN 60626-3:1996 are as follows:

– consolidation of Amendment 1 published in 1999 which was mainly describing the sheets from 340 to459;

– revision and reordering of previous tables of EN 60626-3:1996.

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)	2011-08-01

Annex ZA has been added by CENELEC.

The contents of the corrigendum of October 2008 have been included in this copy.

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Endorsement notice

The text of the International Standard IEC 60626-3:2008 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60554-2	NOTE	Harmonized as EN 60554-2:2002 (not modified).
IEC 60641-2	NOTE	Harmonized as EN 60641-2:2004 (not modified).
IEC 60674-2	NOTE	Harmonized as EN 60674-2:1998 (not modified).
IEC 60819-2	NOTE	Harmonized as EN 60819-2:2001 (not modified).

———————

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60554-1	1977	Specification for cellulosic papers for electrical purposes - Part 1: Definitions and general requirements	-	-
IEC 60554-3	Series	Specification for cellulosic papers for electrical purposes - Part 3: Specifications for individual materials	-	-
IEC 60626-1	1995	Combined flexible materials for electrical insulation - Part 1: Definitions and general requirements	EN 60626-1	1995
IEC 60626-2	1995	Combined flexible materials for electrical insulation - Part 2: Methods of test	EN 60626-2	1995
IEC 60641-1	2007	Pressboard and presspaper for electrical purposes - Part 1: Definitions and general requirements	EN 60641-1	2008
IEC 60641-3-2	2007	Pressboard and presspaper for electrical purposes - Part 3: Specifications for individual materials - Sheet 2: Requirements for presspaper, types P.2.1, P.4.1, P.4.2, P.4.3 and P.6.1	EN 60641-3-2	2008
IEC 60674-1	1980	Specification for plastic films for electrical purposes - Part 1: Definitions and general requirements	EN 60674-1	1998
IEC 60674-3-2	1992	Specification for plastic films for electrical purposes - Part 3: Specifications for individual materials - Sheet 2: Requirements for balanced biaxially oriented polyethylene terephthalate (PET) films used for electrical insulation	EN 60674-3-2	1998
IEC 60674-3-4 to 6	1993	Specification for plastic films for electrical purposes - Part 3: Specifications for individual materials - Sheets 4 to 6: Requirements for polyimide films used for electrical insulation	EN 60674-3-4 to 6	1995
IEC 60819-1 A1	1995 1996	Non-cellulosic papers for electrical purposes - Part 1: Definitions and general requirements	EN 60819-1 A1	1995 1996

Publication	Year	Title	EN/HD	Year
IEC 60819-3-1	2001	Non-cellulosic papers for electrical purposes - Part 3: Specifications for individual materials - Sheet 1: Filled glass paper	EN 60819-3-1	2001
IEC 60819-3-2	2001	Non-cellulosic papers for electrical purposes - Part 3: Specifications for individual materials - Sheet 2: Hybrid inorganic-organic paper	EN 60819-3-2	2001
IEC 60819-3-3	2006	Non-cellulosic papers for electrical purposes - Part 3: Specifications for individual materials - Sheet 3: Unfilled aramid (aromatic polyamide) papers	EN 60819-3-3	2006

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMBINED FLEXIBLE MATERIALS FOR ELECTRICAL INSULATION –

Part 3: Specifications for individual materials

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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This consolidated version of IEC 60626-3 consists of the third edition (2008) [documents 15/442/FDIS and 15/465/RVD] and its amendment 1 (2012) [documents 15/647/CDV and 15/673A/RVC]. It bears the edition number 3.1.

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience. A vertical line in the margin shows where the base publication has been modified by amendment 1. Additions and deletions are displayed in red, with deletions being struck through.

International Standard IEC 60626-3 has been prepared by IEC technical committee 15: Solid electrical insulating materials.

This third edition cancels and replaces the second edition published in 1996 and its amendment 1 (1999), and constitutes a technical revision. The main changes from the previous edition are as follows:

– consolidation of amendment 1 published in 1999 which was mainly describing the sheets from 340 to 459;
– revision and reordering of previous tables of 1996 edition.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 60626 series, under the general title *Combined flexible materials for electrical insulation*, can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The "colour inside" logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.

INTRODUCTION

This standard contains ~~31~~ 32 sheets of Part 3, as follows:

100, 101, 102, 110, 111, 112, 113, 114, 115, 302, 303, 312, 313, 315, 320, 330, 340, 350, 351, 352, 360, 400, 401, 402, 403, 410, 411, 420, 421, 502, 503, 505.

COMBINED FLEXIBLE MATERIALS FOR ELECTRICAL INSULATION –

Part 3: Specifications for individual materials

1 Scope

This part of IEC 60626 specifies dimensional and performance requirements for individual combined flexible materials for electrical insulation. This part is in the form of groups of sheets. Sheets are numbered in accordance with Table 1, which provides a complete list of all the specification sheets belonging to this standard.

Materials which conform to this specification meet established levels of performance. However, the selection of material by a user for a specific application should be based on the actual requirements necessary for adequate performance in that application and not based on this specification alone.

SAFETY WARNING

It is the responsibility of the user of the methods contained or referred to in this document to ensure that they are used in a safe manner.

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.

The list of normative references is extensive because, in order to obtain a combination of two or more materials for electrical insulation, it is necessary that those base materials (paper, film, etc.) shall conform to the requirements set forth, in the appropriate specification of the base material alone, for that purpose. This rule shall be applied also in the development of new possible combinations; to this end, specifications of materials not actually used, but referenced, may be eligible for future developments.

IEC 60554-1:1977, *Specification for cellulosic papers for electrical purposes – Part 1: Definitions and general requirements*

IEC 60554-3 (all parts), *Specification for cellulosic papers for electrical purposes – Part 3: Specifications for individual materials*

IEC 60626-1:1995, *Combined flexible materials for electrical insulation – Part 1: Definitions and general requirements*

IEC 60626-2:1995, *Combined flexible materials for electrical insulation – Part 2: Methods of test*

IEC 60641-1:2008, *Pressboard and presspaper for electrical purposes – Part 1: Definitions and general requirements*

IEC 60641-3-2:2008, *Pressboard and presspaper for electrical purposes – Part 3: Specifications for individual materials – Sheet 2: Requirements for presspaper types P.2.1, P.4.1, P.4.2, P.4.3 and P.6.1*