SLOVENSKI STANDARD

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Combined flexible materials for electrical insulation - Part 3: Specifications for individual materials (IEC 60626-3:1996)

ICS 29.035.01

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EN 60626-3

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Descriptors: Solid electrical insulating materials, composite materials, plastics, paper, wood fibres, aramid fibres, detail specifications, characteristics, tables (data)

English version

Combined flexible materials for electrical insulation
Part 3: Specifications for individual materials
(IEC 626-3:1996)

Matériaux combinés souples destinés à l'isolement électrique
Partie 3: Spécifications pour matériaux particuliers
(CEI 626-3:1996)

Flexible Mehrschichtisolierstoffe zur elektrischen Isolation
Teil 3: Bestimmung für einzelne Materialien
(IEC 626-3:1996)

This European Standard was approved by CENELEC on 1996-10-01. 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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 document 15C/609/FDIS, future edition 2 of IEC 626-3, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60626-3 on 1996-10-01.

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) 1997-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-08-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 626-3:1996 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 554-1	1977	Specification for cellulosic papers for electrical purposes - Part 1: Definitions and general requirements	-	-
IEC 554-3	series	Part 3: Specifications for individual materials	-	-
IEC 626-1	1995	Combined flexible materials for electrical insulation Part 1: Definitions and general requirements	EN 60626-1	1995
IEC 626-2	1995	Part 2: Methods of test	EN 60626-2	1995
IEC 641-1	1979	Specification for pressboard and presspaper for electrical purposes Part 1: Definitions and general requirements	EN 60641-1[1)]	1995
IEC 641-3	series	Part 3: Specifications for individual materials	EN 60641-3	series
IEC 674-1	1980	Specification for plastic films for electrical purposes Part 1: Definitions and general requirements	-	-
IEC 674-3	series	Part 3: Specifications for individual materials	EN 60674-3	series
IEC 819-1	1995	Non-cellulosic papers for electrical purposes Part 1: Definitions and general requirements	EN 60819-1	1995
IEC 819-3	series	Part 3: Specifications for individual materials	-	-

1) EN 60641-1 includes A1:1993 to IEC 641-1

NORME INTERNATIONALE

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Matériaux combinés souples destinés à l'isolement électrique –

Partie 3: Spécifications pour matériaux particuliers

Combined flexible materials for electrical insulation –

Part 3: Specifications for individual materials

Bureau central de la Commission Electrotechnique Internationale 3, rue de Varembé Genève Suisse

Commission Electrotechnique Internationale
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Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMBINED FLEXIBLE MATERIALS FOR ELECTRICAL INSULATION –

Part 3: Specifications for individual materials

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.

3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.

4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 626-3 has been prepared by subcommittee 15C: Specifications, of IEC technical committee 15: Insulating materials.

This second edition cancels and replaces the first edition published in 1988 and its corrigendum, published in 1988, and constitutes a technical revision.

The text of this standard is based on the following documents:

FDIS	Report on voting
15C/609/FDIS	15C/697/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

INTRODUCTION

This International Standard is one of a series which deals with combined flexible materials. The series consists of three parts:

- part 1: Definitions and general requirements (IEC 626-1);
- part 2: Methods of test (IEC 626-2);
- part 3: Specifications for individual materials (IEC 626-3).

This standard contains 19 of the sheets comprising part 3, as follows:

Sheets: 100, 101, 102, 110, 111, 112, 113, 114, 115, 302, 303, 312, 313, 315, 320, 330, 502, 503, 505.

COMBINED FLEXIBLE MATERIALS FOR ELECTRICAL INSULATION –

Part 3: Specifications for individual materials

1 Scope

This part of IEC 626 specifies dimensional and performance requirements for individual combined flexible materials. 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.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 626. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 626 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards. In the event of dispute, the referenced editions shall be used.

IEC 554-1: 1977, *Specification for cellulosic papers for electrical purposes – Part 1: Definitions and general requirements*

IEC 554-3, *Specification for cellulosic papers for electrical purposes – Part 3: Specifications for individual materials*

IEC 626-1: 1995, *Combined flexible materials for electrical insulation – Part 1: Definitions and general requirements*

IEC 626-2: 1995, *Combined flexible materials for electrical insulation – Part 2: Methods of test*

IEC 641-1: 1979, *Specification for pressboard and presspaper for electrical purposes – Part 1: Definitions and general requirements*

IEC 641-3: *Specification for pressboard and presspaper for electrical purposes – Part 3: Specifications for individual materials*

IEC 674-1: 1980, *Specification for plastic films for electrical purposes – Part 1: Definitions and general requirements*

IEC 674-3: *Specification for plastic films for electrical purposes – Part 3: Specifications for individuals materials*

IEC 819-1: 1995, *Non-cellulosic papers for electrical purposes – Part 1: Definitions and general requirements*

IEC 819-3: *Specification for non-cellulosic papers for electrical purposes – Part 3: Specifications for individual materials*

3 Requirements

In addition to complying with the general requirements of IEC 626-1, each flexible combined laminate shall conform to the requirements set forth in the appropriate sheet corresponding to its type, as shown in the sheets of this standard.

4 Designation

Table 1 lists material designations and constructions appropriate to each sheet. Material conforming to this specification shall be identified by a designation containing the IEC standard number, the material designation from IEC 626-1 and the nominal thickness. For example:

IEC 626-3, Sheet 112, P-C/F-PET/P-C, 0,15 mm

5 Thermal classification

Performance experience provides information about the thermal capability of combined flexible materials in electrical insulation systems. This information is given in each individual sheet. Thermal classification information on these sheets is not to be considered as a requirement.

6 Specification sheets

Table 1 – Master listing for IEC 626-3 sheet identification

Sheet No.	Flexible laminate composition
100 to 149	Paper or presspaper containing sulphate woodpulp fibres
100 to 109	Duplex with PET film
110 to 119	Triplex with PET film
120 to 149	Others
150 to 199	Paper or presspaper containing cotton fibres
150 to 159	Duplex with PET film
160 to 169	Triplex with PET film
170 to 199	Others
200 to 249	Paper or presspaper containing both cotton and woodpulp fibres
200 to 209	Duplex with PET film
210 to 219	Triplex with PET film
220 to 249	Others
250 to 299	Paper or presspaper containing other cellulosic fibres or mixtures of cellulosic and non-cellulosic fibres
300 to 399	Wet-laid paper containing organic non-cellulosic fibres
300 to 309	Duplex calendered aramid with PET film
310 to 319	Triplex calendered aramid with PET film
320 to 329	Triplex uncalendered aramid with PET film
330 to 339	Triplex calendered aramid with PI film
340 to 399	Others
400 to 499	Wet-laid paper containing inorganic fibres
400 to 459	Glass
460 to 499	Others
500 to 599	Dry-laid non-woven containing organic fibres
500 to 519	100 % PET-based fibres
520 to 539	100 % aramid-based fibres
540 to 599	Others
600 to 999	Other constructions

NOTE - Not all the specification sheets listed in this table are yet available.

The specification sheets available are given below.