

Flexible insulating sleeving - Part 3: Specification for individual types of sleeving -Sheet 209: Heat-shrinkable polyolefin sleeving, general purpose, flame retarded

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60684-3-209:2010 sisaldab Euroopa standardi EN 60684-3-209:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.10.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 09.07.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60684-3-209:2010 consists of the English text of the European standard EN 60684-3-209:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.10.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English version

**Flexible insulating sleeving -
Part 3: Specifications for individual types of sleeving -
Sheet 209: Heat-shrinkable polyolefin sleeving, general purpose, flame
retarded
(IEC 60684-3-209:2010)**

Gaines isolantes souples -
Partie 3: Spécifications pour types
particuliers de gaines -
Feuille 209: Gaines thermorétractables,
en polyoléfine, d'utilisation générale,
ignifugées
(CEI 60684-3-209:2010)

Isolierschläuche -
Teil 3: Anforderungen für einzelne
Schlauchtypen -
Blatt 209: Polyolefin-
Wärmeschrumpfschläuche, Standardtyp,
flammwidrig
(IEC 60684-3-209:2010)

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 15/561/FDIS, future edition 3 of IEC 60684-3-209, prepared by IEC TC 15, Solid electrical insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60684-3-209 on 2010-07-01.

This European Standard supersedes EN 60684-3-209:2003.

This EN 60684-3-209:2010 has been aligned with UL 224 for 125 °C flexible heat-shrinkable polyolefin tubing.

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 national standard or by endorsement (dop) 2011-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2013-07-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60684-3-209:2010 was approved by CENELEC as a European Standard without any modification.

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60684-1	2003	Flexible insulating sleeving - Part 1: Definitions and general requirements	EN 60684-1	2003
IEC 60684-2	1997	Flexible insulating sleeving -	EN 60684-2	1997
+ A1	2003	Part 2: Methods of test	+ A1	2003
+ A2	2005		+ A2	2005
IEC 60757	1983	Code for designation of colours	HD 457 S1	1985

CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references.....	6
3 Designation.....	6
4 Conditions of test.....	7
5 Requirements.....	7
6 Sleeving conformance.....	7
Table 1 – Required test samples.....	7
Table 2 – Minimum recovered wall thicknesses for maximum recovered internal diameters.....	7
Table 3 – Property requirements.....	8
Table 4 – Mandrel diameters for heat shock and low temperature bending.....	9

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INTRODUCTION

This International Standard is one of a series which deals with flexible insulating sleeving for electrical purposes.

The series consists of three parts:

- Part 1: Definitions and general requirements (IEC 60684-1)
- Part 2: Methods of test (IEC 60684-2)
- Part 3: Specifications for individual types of sleeving (IEC 60684-3)

This standard comprises one of the sheets of Part 3 as follows:

Sheet 209: Heat-shrinkable, polyolefin sleeving, general purpose, flame retarded

FLEXIBLE INSULATING SLEEVING –

Part 3: Specifications for individual types of sleeving – Sheet 209: Heat-shrinkable, polyolefin sleeving, general purpose, flame retarded

1 Scope

This part of IEC 60684 gives the requirements for two types of general purpose, flexible, flame retarded, heat-shrinkable polyolefin sleeving. This sleeving has been found suitable for use at temperatures up to 125 °C.

- Type A – Highly flame retarded
- Type B – Flame retarded

The minimum supplied and maximum recovered internal diameters shall be specified by the manufacturer and shall meet the minimum wall thicknesses given in Table 2.

It is normally available in bore sizes up to 75 mm as supplied and in the following colours: black, brown, white, red, yellow, green, blue, orange, violet, grey and yellow/green.

Materials which conform to this specification meet established levels of performance. However, the selection of a 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.

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 60684-1:2003, *Flexible insulating sleeving – Part 1: Definitions and general requirements*

IEC 60684-2:1997, *Flexible insulating sleeving – Part 2: Methods of test*
Amendment 1 (2003)
Amendment 2 (2005)

IEC 60757:1983, *Code for designation of colours*

3 Designation

The sleeving shall be identified by the following designation:

Description	IEC publication number	IEC part number	IEC sheet number	Type	Size (expanded and recovered internal diameter in millimetres)	Colour
↓	↓	↓	↓	↓	↓	↓
Sleeving	IEC 60684	-3	-209	A	-12,7/6,4	- BK