



**NSAI**  
Standards

Irish Standard  
I.S. EN 60684-3-205:2011

Flexible insulating sleeving -- Part 3:  
Specifications for individual types of  
sleeving -- Sheet 205: Heat-shrinkable  
chlorinated polyolefin sleeving, flame  
retarded, nominal shrink ratio 1,7:1 and  
2:1 (IEC 60684-3-205:2011 (EQV))

## I.S. EN 60684-3-205:2011

*Incorporating amendments/corrigenda issued since publication:*

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|--|--|---|
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EUROPEAN STANDARD

**EN 60684-3-205**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2011

ICS 29.035.20

English version

**Flexible insulating sleeving -  
Part 3: Specifications for individual types of sleeving -  
Sheet 205: Heat-shrinkable chlorinated polyolefin sleeving, flame  
retarded, nominal shrink ratio 1,7:1 and 2:1  
(IEC 60684-3-205:2011)**

Gaines isolantes souples -  
Partie 3: Spécifications pour types  
particuliers de gaines -  
Feuille 205: Gaines thermorétractables en  
polyoléfine chlorée, retardées à la flamme,  
rapport de rétreint nominal de 1,7:1 et 2:1  
(CEI 60684-3-205:2011)

Isolierschläuche -  
Teil 3: Anforderungen für einzelne  
Schlauchtypen -  
Blatt 205: Wärmeschrumpfschläuche aus  
chloriertem Polyolefin, flammwidrig,  
nominales Schrumpfverhältnis 1,7:1 und  
2:1  
(IEC 60684-3-205:2011)

This European Standard was approved by CENELEC on 2011-07-26. 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.

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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**

## **Foreword**

The text of document 15/626/FDIS, future edition 1 of IEC 60684-3-205, prepared by IEC TC 15, Solid electrical insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60684-3-205 on 2011-07-26.

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) 2012-04-26
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2014-07-26

Annex ZA has been added by CENELEC.

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## **Endorsement notice**

The text of the International Standard IEC 60684-3-205:2011 was approved by CENELEC as a European Standard without any modification.

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## 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 -<br>Part 1: Definitions and general requirements | EN 60684-1   | 2003        |
| IEC 60684-2        | 1997        | Flexible insulating sleeving -   | EN 60684-2   | 1997        |
| + corr. December   | 1997        | Part 2: Methods of test  | + A1         | 2003        |
| + A1               | 2003        |  | + A2         | 2005        |
| + A2               | 2005        |  |              |             |
| IEC 60757          | 1983        | Code for designation of colours  | HD 457 S1    | 1985        |
| ISO 846            | 1997        | Plastics - Evaluation of the action of<br>microorganisms                       | EN ISO 846   | 1997        |
| ISO 1817           | 2005        | Rubber, vulcanized - Determination of the<br>effect of liquids                 | -            | -           |

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FLEXIBLE INSULATING SLEEVING –

**Part 3: Specifications for individual types of sleeving –  
Sheet 205: Heat-shrinkable chlorinated polyolefin sleeving,  
flame retarded, nominal shrink ratio 1,7:1 and 2:1**

## 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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International Standard IEC 60684-3-205 has been prepared by IEC technical committee 15: Solid electrical insulating materials.

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

|             |                  |
|-------------|------------------|
| FDIS        | Report on voting |
| 15/626/FDIS | 15/638/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.

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



A list of all the parts in the IEC 60684 series, under the general title *Flexible insulating sleeving*, can be found on the IEC website.

The committee has decided that the contents of this publication 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.

## 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 gives one of the sheets comprising part 3 as follows:

Sheet 205: Heat-shrinkable chlorinated polyolefin sleeving, flame retarded, nominal shrink ratio 1,7:1 and 2:1

## FLEXIBLE INSULATING SLEEVING –

### Part 3: Specifications for individual types of sleeving – Sheet 205: Heat-shrinkable chlorinated polyolefin sleeving, flame retarded, nominal shrink ratio 1,7:1 and 2:1

#### 1 Scope

This part of IEC 60684 gives the requirements for one type of heat-shrinkable chlorinated polyolefin sleeving, flame retarded, nominal shrink ratio 1,7:1 and 2:1 for use at temperatures up to 120 °C.

These sleeveings are normally supplied with internal diameters up to 102 mm, and the standard colour is black.

Sizes or colours other than those specifically listed in this standard may be available as custom items. These items shall be considered to comply with this standard if they comply with the property requirements listed in Tables 3, 4 and 5 except for dimensions and mass, and Table 6, as applicable.

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*

ISO 846:1997, *Plastics – Evaluation of the action of micro-organisms*

ISO 1817:2005, *Rubber, vulcanized – Determination of the effect of liquids*

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