

# INTERNATIONAL STANDARD

# IEC 60684-3-248

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## Flexible insulating sleeving –

### Part 3:

### Specifications for individual types of sleeving – Sheet 248: General purpose, heat-shrinkable, dual wall polyolefin sleeving, flame retarded, shrink ratios 2:1, 3:1, 4:1

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## CONTENTS

|  |    |
|--|----|
| FOREWORD.....  | 3  |
| INTRODUCTION.....  | 5  |
| 1 Scope.....   | 6  |
| 2 Normative references.....  | 6  |
| 3 Designation .....  | 7  |
| 4 Conditions of test.....  | 7  |
| 5 Requirements .....   | 7  |
| 6 Sleeving conformance.....  | 7  |
| 7 Elevated temperature performance test.....                                     | 8  |
| <br>   |    |
| Figure 1 – Test assembly for elevated temperature performance .....              | 8  |
| <br>   |    |
| Table 1 – Size of stepped mandrel for elevated temperature performance test..... | 8  |
| Table 2 – Dimensional requirements – Type AL and AH.....                         | 9  |
| Table 3 – Dimensional requirements – Type BL and BH.....                         | 9  |
| Table 4 – Dimensional requirements – Type CL and CH .....                        | 10 |
| Table 5 – Property requirements .....  | 11 |
| Table 6 – Requirements for breakdown voltage .....                               | 12 |
| Table 7 – Resistance to selected fluids.....                                     | 13 |
| Table 8 – Additional property requirements.....                                  | 13 |

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FLEXIBLE INSULATING SLEEVING –

**Part 3: Specifications for individual types of sleeving –  
Sheet 248: General purpose, heat-shrinkable, dual wall polyolefin  
sleeving, flame retarded, shrink ratios 2:1, 3:1, 4:1**

## FOREWORD

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International Standard IEC 60684-3-248 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 |
| 15/359/FDIS | 15/372/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 parts of the IEC 60684 series, published 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 maintenance result 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.

A bilingual version of this publication may be issued at a later date.

## 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 248: General purpose, heat-shrinkable, dual wall polyolefin sleeving, flame retarded, shrink ratios 2:1, 3:1, 4:1

## FLEXIBLE INSULATING SLEEVING –

### Part 3: Specifications for individual types of sleeving – Sheet 248: General purpose, heat-shrinkable, dual wall polyolefin sleeving, flame retarded, shrink ratios 2:1, 3:1, 4:1

#### 1 Scope

This part of IEC 60684 gives the requirements for six types of general purpose, heat shrinkable dual wall polyolefin sleeveings, flame retarded with nominal shrink ratios of 2:1, 3:1 or 4:1 and available in low and high temperature adhesive inner walls.

The low temperature adhesive sleeving has been found suitable for temperatures up to 105 °C and the high temperature adhesive sleeving has been found suitable for temperatures up to 125 °C.

- Type AL:  
2:1 shrink ratio, internal diameter up to 51 mm, low temperature adhesive inner wall.
- Type AH:  
2:1 shrink ratio, internal diameter up to 51 mm, high temperature adhesive inner wall.
- Type BL:  
3:1 shrink ratio, internal diameter up to 40 mm, low temperature adhesive inner wall.
- Type BH:  
3:1 shrink ratio, internal diameter up to 40 mm, high temperature adhesive inner wall.
- Type CL:  
4:1 shrink ratio, internal diameter up to 52 mm, low temperature adhesive inner wall.
- Type CH:  
4:1 shrink ratio, internal diameter up to 52 mm, high temperature adhesive inner wall.

The sleeving consists of an outer layer being of a flexible cross-linked polyolefin. The inner wall consists of a hot melt adhesive that flows and fuses during the shrinking process to provide a bond.

These sleeveings are normally supplied in colour black.

Sizes or colours other than those listed in this standard may be available as custom items. These items are considered to comply with this standard if they comply with the property requirements listed in Tables, 5 and 6 and Table 8 where applicable, with the exception of dimensions.

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*<sup>1)</sup>  
Amendment 1 (2003)  
Amendment 2 (2005)

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

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

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<sup>1)</sup> A consolidated edition 2.1 exists, including IEC 60684-2:1997 and its Amendment 1 (2003).