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INTERNATIONAL STANDARD



**Flexible insulating sleeving –
Part 3: Specifications for individual types of sleeving – Sheets 116 and 117:
Extruded polychloroprene, general purpose**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FLEXIBLE INSULATING SLEEVING –

Part 3: Specifications for individual types of sleeving – Sheets 116 and 117: Extruded polychloroprene, general purpose

FOREWORD

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IEC 60684-3-116 has been prepared by IEC technical committee 15: Solid electrical insulating materials. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2010 and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) update of clause references in Table 2;
- b) addition of resistance to fluids test.

The text of this International Standard is based on the following documents:

Draft	Report on voting
15/1005/CDV	15/1020/RVC

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all the parts in 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 document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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- revised.

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INTRODUCTION

This document is one of a series of standards 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: Specification requirements for individual types of sleeving (IEC 60684-3).

This document comprises two of the sheets of Part 3, as follows:

Sheet 116: Extruded polychloroprene, general purpose: thin wall;

Sheet 117: Extruded polychloroprene, general purpose: thick wall.

FLEXIBLE INSULATING SLEEVING –

Part 3: Specifications for individual types of sleeving – Sheets 116 and 117: Extruded polychloroprene, general purpose

1 Scope

This part of IEC 60684 gives the requirements for non-heat-shrinkable sleeving, extruded from compounds based on polychloroprene elastomer. This sleeving has been found suitable for temperatures up to 95 °C.

Sleeving of this type is normally available with internal diameters up to 25 mm, and in the following opaque colours: black, brown, red, orange, yellow, green, blue, violet, grey, white and pink. Sizes or colours other than those specifically listed in this document ~~may~~ can possibly be available as custom items. These items ~~shall be~~ are considered to comply with this document if they comply with the other property requirements listed in Table 2.

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~~ will be based on the actual requirements necessary for adequate performance in the application and not based on the specification alone.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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:—, Flexible insulating sleeving – Part 2: Methods of test¹~~

IEC 60684-2:~~1997~~2011, *Flexible insulating sleeving – Part 2: Methods of test*
~~Amendment 1 (2003)~~
~~Amendment 2 (2005)~~

IEC 60068-2-74²:1999, *Environmental testing – Part 2-74: Tests – Test Xc: Fluid contamination*
IEC 60068-2-74:1999/AMD1:2018

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

ISO 1817, *Rubber, vulcanized or thermoplastic – Determination of the effect of liquids*

¹ ~~Third edition to be published~~

² There exists a consolidated version 1.1:2018 that includes IEC 60068-2-74:1999 and its Amendment 1:2018.

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Flexible insulating sleeving –
Part 3: Specifications for individual types of sleeving – Sheets 116 and 117:
Extruded polychloroprene, general purpose**

**Gaines isolantes souples –
Partie 3: Spécifications pour types particuliers de gaines – Feuilles 116 et 117:
Polychloroprène extrudé, utilisation générale**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Sheets 116 and 117: Extruded polychloroprene, general purpose****FOREWORD**

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Sheet 117: Extruded polychloroprene, general purpose: thick wall.

FLEXIBLE INSULATING SLEEVING –

Part 3: Specifications for individual types of sleeving – Sheets 116 and 117: Extruded polychloroprene, general purpose

1 Scope

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IEC 60684-2:2011, *Flexible insulating sleeving – Part 2: Methods of test*

IEC 60068-2-74¹:1999, *Environmental testing – Part 2-74: Tests – Test Xc: Fluid contamination*
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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

GAINES ISOLANTES SOUPLES –

**Partie 3: Spécifications pour types particuliers de gaines –
Feuilles 116 et 117: Polychloroprène extrudé, utilisation générale**

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L'IEC 60684-3-116 a été établie par le comité d'études 15 de l'IEC: Matériaux isolants électriques solides. Il s'agit d'une Norme internationale.

Cette quatrième édition annule et remplace la troisième édition parue en 2010, dont elle constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) mise à jour des références aux articles dans le Tableau 2;
- b) ajout de l'essai de résistance aux fluides.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
15/1005/CDV	15/1020/RVC

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/publications.

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- révisé.

INTRODUCTION

Le présent document fait partie d'une série de normes qui traitent des gaines isolantes souples à usages électriques.

Cette série est composée de trois parties:

Partie 1: Définitions et exigences générales (IEC 60684-1);

Partie 2: Méthodes d'essai (IEC 60684-2);

Partie 3: Spécifications pour types particuliers de gaines (IEC 60684-3).

Le présent document comprend deux des feuilles qui composent la Partie 3, à savoir:

Feuille 116: Polychloroprène extrudé, utilisation générale: paroi mince;

Feuille 117: Polychloroprène extrudé, utilisation générale: paroi épaisse.

GAINES ISOLANTES SOUPLES –

Partie 3: Spécifications pour types particuliers de gaines – Feuilles 116 et 117: Polychloroprène extrudé, utilisation générale

1 Domaine d'application

La présente partie de l'IEC 60684 fournit les exigences relatives aux gaines non thermorétractables, extrudées à partir de composés à base d'élastomère polychloroprène. Ces gaines se sont révélées être adaptées à des températures jusqu'à 95 °C.

Les gaines de ce type sont généralement proposées avec des diamètres intérieurs jusqu'à 25 mm et dans les couleurs opaques suivantes: noir, brun, rouge, orange, jaune, vert, bleu, violet, gris, blanc et rose. D'autres dimensions et d'autres couleurs que celles spécifiquement indiquées dans le présent document peuvent être proposées comme articles spéciaux. Ces articles sont considérés comme conformes au présent document s'ils sont conformes aux autres exigences relatives aux propriétés indiquées dans le Tableau 2.

Les matériaux conformes à la présente spécification satisfont à des niveaux établis de performance. Toutefois, l'utilisateur choisit le matériau destiné à une application spécifique en se fondant sur les exigences réelles nécessaires pour assurer des performances adéquates dans le cadre de l'application considérée et non sur la spécification seule.

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Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 60684-1, *Gaines isolantes souples – Partie 1: Définitions et exigences générales*

IEC 60684-2:2011, *Gaines isolantes souples – Partie 2: Méthodes d'essai*

IEC 60068-2-74¹:1999, *Essais d'environnement – Partie 2-74: Essais – Essai Xc: Contamination par des fluides*
IEC 60068-2-74:1999/AMD1:2018

IEC 60757:1983, *Code de désignation de couleurs*

ISO 1817, *Caoutchouc vulcanisé ou thermoplastique – Détermination de l'action des liquides*

¹ Il existe une version consolidée 1.1:2018 qui inclut l'IEC 60068-2-74:1999 et son Amendement 1:2018.