
**Gibke izolacijske cevi – 3. del: Specifikacije za posamezne tipe cevi – 216.
list: Toplotno skrčljive, ognjevarne cevi z majhno požarno nevarnostjo (IEC
60684-3-216:2001 + popravek 2003 + A1:2005)**

(istoveten EN 60684-3-216:2005)

Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving -
Sheet 216: Heat-shrinkable, flame-retarded, limited fire hazard sleeving (IEC
60684-3-216:2001 + Corrigendum 2003 + A1:2005)

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English version

Flexible insulating sleeving
Part 3: Specifications for individual types of sleeving
Sheet 216: Heat-shrinkable, flame-retarded,
limited-fire hazard sleeving
(IEC 60684-3-216:2001 + corrigendum 2003 + A1:2005)

Gaines isolantes souples
Partie 3: Spécifications pour types
particuliers de gaines
Feuille 216: Gaines thermorétractables,
retardées à la flamme, au risque
de feu limité
(CEI 60684-3-216:2001 +
corrigendum 2003 + A1:2005)

Isolierschläuche
Teil 3: Anforderungen für einzelne
Schlauchtypen
Blatt 216: Wärmeschrumpfende,
flammwidrige Schläuche mit begrenztem
Brandrisiko
(IEC 60684-3-216:2001 +
Corrigendum 2003 + A1:2005)

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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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 texts of documents 15C/1140/FDIS and 15C/1664/FDIS, future edition 1 of IEC 60684-3-216 and its amendment 1, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, were submitted to the IEC-CENELEC parallel vote and were approved by CENELEC as EN 60684-3-216 on 2005-04-12.

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) 2006-02-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2008-04-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60684-3-216:2001 + corrigendum 1:2003 + A1:2005 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 Where 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	1980	Specification for flexible insulating sleeving Part 1: Definitions and general requirements	EN 60684-1 ¹⁾	1995
IEC 60684-2	1997	Part 2: Methods of test	EN 60684-2	1997
IEC 60757	1983	Code for designation of colours	HD 457 S1	1985
ISO 846	1997	Plastics - Evaluation of the action of microorganisms	EN ISO 846	1997
ISO 1817	1999	Rubber, vulcanized - Determination of the effect of liquids	-	-

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¹⁾ EN 60684-1 is superseded by EN 60684-1:2003, which is based on IEC 60684-1:2003.

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60684-3-216

Edition 1.1

2005-03

Edition 1:2001 consolidée par l'amendement 1:2005
Edition 1:2001 consolidated with amendment 1:2005

Gaines isolantes souples –

Partie 3:

Spécifications pour types particuliers de gaines –

**Feuille 216: Gaines thermorétractables,
retardées à la flamme, au risque de feu limité**
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Flexible insulating sleeving –

Part 3:

Specifications for individual types of sleeving – Sheet 216: Heat-shrinkable, flame-retarded, limited-fire-hazard sleeving

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FLEXIBLE INSULATING SLEEVING –

**Part 3: Specifications for individual types of sleeving –
Sheet 216: Heat-shrinkable, flame-retarded,
limited-fire-hazard sleeving**

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 60684-3-216 has been prepared by subcommittee 15C: Specifications, of IEC technical committee 15: Insulating materials.

This consolidated version of IEC 60684-3-216 consists of the first edition (2001) [documents 15C/1140/FDIS and 15C/1164/RVD], its amendment 1 (2005) [documents 15C/1664/FDIS and 15C/1676/RVD] and its corrigendum of February 2003.

The technical content is therefore identical to the base edition and its amendment and has been prepared for user convenience.

It bears the edition number 1.1.

A vertical line in the margin shows where the base publication has been modified by amendment 1.

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.

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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 is one of the sheets comprising Part 3.

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FLEXIBLE INSULATING SLEEVING –

Part 3: Specifications for individual types of sleeving – Sheet 216: Heat-shrinkable, flame-retarded, limited-fire-hazard sleeving

1 Scope

This sheet of IEC 60684-3 gives the requirements for four types of heat-shrinkable, flame-retarded, limited-fire-hazard sleeving with a thermal endurance rating of 105 °C as shown below:

Class A:	thin wall	shrink ratio 2:1	internal diameter up to 102,0 mm
Class B:	medium wall	shrink ratio 2:1	internal diameter up to 60,0 mm
Class C:	thick wall	shrink ratio 2:1	internal diameter up to 51,0 mm
Class D:	medium wall	shrink ratio 3:1	internal diameter up to 40,0 mm

These sleeveings are normally supplied in the following colours: black, red, green, blue, white, yellow and green/yellow.

Sizes or colours other than those 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 5, 6, 7 and 8, excluding dimensions and mass.

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 60684-1:1980, *Specification for flexible insulating sleeving – Part 1: Definitions and general requirements*

IEC 60684-2:1997, *Flexible insulating sleeving – Part 2: Methods of test*

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

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

ISO 1817:1999, *Rubber, vulcanized – Determination of the effect of liquids* (available in English only)