

**SLOVENSKI STANDARD**  
**SIST HD 523.3.300 S1:1998**  
**01-junij-1998**

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**Specification for flexible insulating sleeving - Part 3: Specification requirements for individual types of sleeving - Sheet 300: Glass textile fibre sleeving, braided, uncoated (IEC 60684-3-300:1987)**

Specification for flexible insulating sleeving -- Part 3: Specification requirements for individual types of sleeving -- Sheet 300: Glass textile fibre sleeving, braided, uncoated

Bestimmung für Isolierschläuche -- Teil 3: Bestimmungen für einzelne Schlauchtypen -- Blatt 300: Glasfilament-Textilschläuche, geflochten, unbeschichtet

Spécification pour gaines isolantes souples -- Partie 3: Spécifications particulières aux types particuliers de gaines -- Feuille 300: Gaines en fibre de verre tissées, guipées, nues

**Ta slovenski standard je istoveten z: HD 523.3.300 S1:1989**

**ICS:**

29.035.30      S^|æ ã} ã Á c\|^} ã      Ceramic and glass insulating  
ã [ |æã \ ã æ |ãã      materials

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 specification

SPECIFICATION FOR FLEXIBLE INSULATING SLEEVING  
 PART 3: SPECIFICATION REQUIREMENTS FOR INDIVIDUAL  
 TYPES OF SLEEVING  
 SHEET 300: GLASS TEXTILE FIBRE SLEEVING, BRAIDED,  
 UNCOATED

Spécification pour gaines  
 isolantes souples  
 Troisième partie: Spécifications  
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Bestimmung für flexible  
 Isolierschläuche  
 Teil 3: Technische Lieferbedingungen  
 für einzelne Schlauchtypen  
 Blatt 300:  
 Glasfilament-Textilschläuche,  
 geflochten, unbeschichtet

BODY OF THE HD

**iTeh STANDARD PREVIEW**

The Harmonization Document consists of:

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- IEC 684-3-300 (1987) ed 1; IEC/SC 15C, not appended

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This Harmonization Document was approved by CENELEC on 1989-06-01.

The English and French versions of this Harmonization Document are provided  
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 translation of the IEC text.

According to the CENELEC Internal Regulations the CENELEC member National  
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to announce the existence of this Harmonization Document at national level  
 by or before 1989-12-01

to publish their new harmonized national standard  
 by or before 1990-06-01

to withdraw all conflicting national standards  
 by or before 1990-06-01.

Harmonized national standards are listed on the HD information sheet,  
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# NORME INTERNATIONALE INTERNATIONAL STANDARD

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CEI  
IEC  
684-3-300

Première édition  
First edition  
1987



Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

## Spécification pour gaines isolantes souples

Troisième partie: Spécifications particulières aux types  
particuliers de gaines

Feuille 300: Gainés en fibre de verre tissées, guipées, nues

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## Specification for flexible insulating sleeving

Part 3: Specification requirements for individual types of sleeving

Sheet 300: Glass textile fibre sleeving, braided, uncoated

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## SPECIFICATION FOR FLEXIBLE INSULATING SLEEVING

Part 3: Specification requirements for individual types of sleeving  
Sheet 300: Glass textile fibre sleeving, braided, uncoated

## FOREWORD

- 1) The formal decisions or agreements of the I E C on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the I E C expresses the wish that all National Committees should adopt the text of the I E C recommendation for their national rules in so far as national conditions will permit. Any divergence between the I E C recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

## PREFACE

This standard has been prepared by Sub-Committee 15C: Specifications, of I E C Technical Committee No. 15: Insulating Materials.

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

Six Months' Rule	Report on Voting
15C(CO)168	15C(CO)185

Further information can be found in the Report on Voting indicated in the table above.

The following I E C publications are quoted in this standard:

- Publications Nos. 684-1 (1980): Specification for Flexible Insulating Sleeving, Part 1: Definitions and General Requirements.  
684-2 (1984): Part 2: Methods of Test.

## SPECIFICATION FOR FLEXIBLE INSULATING SLEEVING

### Part 3: Specification requirements for individual types of sleeving Sheet 300: Glass textile fibre sleeving, braided, uncoated

#### INTRODUCTION

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

This series consists of three parts:

- Part 1: Definitions and General Requirements (I E C Publication 684-1);
- Part 2: Methods of Test (I E C Publication 684-2);
- Part 3: Specification Requirements for Individual Types of Sleeving (I E C Publication 684-3).

This sheet is one of the sheets comprising Part 3.

#### 1. Scope

This sheet gives requirements for sleeving constructed from a braid of E-type glass yarn. The sleeving is annealed by heat treatment to assist in maintaining a circular cross-section. It is normally available in bore sizes between 0.5 mm and 30 mm. It is supplied only in its natural colour.

*Note.* — This sleeving is suitable for use at temperatures up to 350 °C and for some applications at higher temperatures.

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#### 2. Designation

The sleeving shall be identified by one of the following means:

- a) in words and numbers;
- b) by the designation which follows;
- c) by both the above.

I E C 684-3-300 — nominal bore size in millimetres.

The addition of "x" at the end of the designation indicates that either or both of the properties contained in Table III have been agreed and included in the purchase contract.

For example: I E C 684-3-300-8-x.

#### 3. Requirements

##### 3.1 Basic requirements for compliance

Sleeving shall as a minimum comply with the requirements of:

- a) I E C Publication 684-1 and
- b) Tables I and II of this standard.

##### 3.2 Special requirements

If sleeving is to be supplied with a specified resistance to mould growth and/or electrical breakdown, it shall also comply with the appropriate requirements of Table III.

TABLE I

*Dimensional requirements*

Publication 684-2 Clause	Nominal bore (mm)	Minimum wall thickness (mm)	Remarks
3	0.5 and 0.8 1 to 4 5 to 8 10 to 15 > 15	0.15 0.25 0.30 0.45 0.55	Due to the extremely flexible nature of this sleeving, it is not possible to give tolerances on the bore diameter

TABLE II

*Property requirements*

Property	Publication 684-2 Clause	Units	Max. or min.	Requirements
Loss in mass on heating	8	%	max.	0.15
Tensile strength	19.3	MPa	min.	90
Fraying resistance	20	%	max.	Under consideration
Ionic impurities (conductivity of aqueous extract)	29	mS/m	max.	15

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Property	Publication 684-2 Clause	Requirements
Mould growth	Appendix B	Scale 1
Breakdown voltage at room temperature	21.2 or 21.4	See note

*Note.* — Sleeving of this type is normally used only to provide air space insulation; no requirements for breakdown voltage are therefore specified in this standard. Any value for this property should be the subject of agreement. A typical value is 1.5 kV/mm of wall thickness but a linear relationship between wall thickness and breakdown voltage cannot be assumed.