SLOVENSKI STANDARD

SIST HD 523.3.320 S1:1998

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Specification for flexible insulating sleeving - Part 3: Specification requirements for individual types of sleeving - Sheet 320: Polyethylene terephthalete textile, lightly impregnated (IEC 60684-3-320:1987)

Specification for flexible insulating sleeving -- Part 3: Specification requirements for individual types of sleeving -- Sheet 320: Polyethylene terephthalate textile, lightly impregnated

Bestimmung für Isolierschläuche -- Teil 3: Bestimmungen für einzelne Schlauchtypen -- Blatt 320: PETP-Textilschläuche, gering imprägniert

Spécification pour gaines isolantes souples -- Partie 3: Spécifications particulières aux types particuliers de gaines -- Feuille 320: Téréphtalate de polyéthylène tissé, légèrement imprégné

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SPECIFICATION FOR FLEXIBLE INSULATING SLEEVING
PART 3: SPECIFICATION REQUIREMENTS FOR INDIVIDUAL TYPES OF SLEEVING
SHEET 320: POLYETHYLENE TEREPHTHALATE TEXTILE, LIGHTLY IMPREGNATED

Spécification pour gaines isolantes souples
Troisième partie: Spécifications particulières aux types particuliers de gaines
Feuille 320: Téréphtalate de polyéthylène tissé, légèrement imprégné

Bestimmung für flexible Isolierschläuche
Teil 3: Technische Lieferbedingungen für einzelne Schlauchtypen
Blatt 320: PETP-Textilschläuche, gering imprägniert

BODY OF THE HD

The Harmonization Document consists of:

- IEC 684-3-320 (1987) ed 1; IEC/SC 15C, not appended

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

The English and French versions of this Harmonization Document are provided by the text of the IEC publication and the German version is the official translation of the IEC text.

According to the CENELEC Internal Regulations the CENELEC member National Committees are bound:

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, which is available from the CENELEC National Committees or from the CENELEC Central Secretariat.

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Spécification pour gaines isolantes souples

Troisième partie: Spécifications particulières aux types particuliers de gaines
Feuille 320: Téréphtalate de polyéthylène tissé, légèrement imprégné

Specification for flexible insulating sleeving

Part 3: Specification requirements for individual types of sleeving
Sheet 320: Polyethylene terephthalate textile, lightly impregnated

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SPECIFICATION FOR FLEXIBLE INSULATING SLEEVING

Part 3: Specification requirements for individual types of sleeving Sheet 320: Polyethylene terephthalate textile, lightly impregnated

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 recommendations and the corresponding national rules should, as far as possible, be clearly indicated in the latter.
4) The I E C has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

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)201	15C(CO)220

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.
757 (1983): Code for Designation of Colours.

SPECIFICATION FOR FLEXIBLE INSULATING SLEEVING

Part 3: Specification requirements for individual types of sleeving
Sheet 320: Polyethylene terephthalate textile, lightly impregnated

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 the requirements for sleeving constructed from polyethylene terephthalate yarn, lightly impregnated with resin to provide mechanical stability. The sleeving may be used at temperatures up to 130 °C under suitable circumstances. It is normally available in bore sizes between 1 mm and 12 mm, and in the following colours; natural, blue, red, yellow, black, green and brown.

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 684-3-320 — nominal bore size in millimetres — colour.

The addition of "x" at the end of the designation indicates that one or more of the special requirements in Table III have been agreed upon and included in the purchase contract.

For example: I E C 684-3-320-red-x

Any abbreviation used for colour shall comply with I E C Publication 757: Code for Designation of Colours.

3. Requirements

Sleeving shall comply with the requirements of both:

a) I E C Publication 684-1 and

b) Tables I and II of this specification.

If any of the properties listed in Table III are specified, the test procedure and corresponding requirements shall be applied.

TABLE I

Dimensional requirements

Nominal bore diameter (mm)	Tolerance on bore diameter (mm)	Minimum wall thickness (mm)
1, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12	±0.25 ±0.50 ±1.0	0.40 0.60 0.60

Dimensions shall be measured to the nearest 0.05 mm using the procedure in Clause 3 of I E C Publication 684-2.

TABLE II

Requirement for longitudinal change

Property	Publication 684-2 Clause	Requirement	Remarks
Longitudinal change	9	5% maximum	The time of test shall be 20 ± 2 min and the temperature 155 ± 2 °C

TABLE III

Special requirements

Property	Publication 684-2 Clause or Sub-clause	Requirement	Remarks
Flexibility	18	See Note 1	
Fraying resistance	20	As specified in the purchase contract	
Breakdown voltage at room temperature	21.2 or 21.4		See Note 2
Mould growth	Appendix B	Scale 1	

Notes 1. — To accommodate the range of flexibility which exists, it is necessary for the test weight and test requirements to be specified in the purchase contract. Recommended weights are as follows:

Bore size (mm)	*Sample + pan weight (g)*
1.0	5
1.5	5
2.0	10
2.5	15
3.0	25
4.0	40

2. — This sleeving is normally used to provide air space insulation, therefore no requirement for breakdown voltage is specified in this standard. (Any value for this property may be given in the purchase contract but a typical value is 1.5 kV/mm of wall thickness although a linear relationship cannot be assumed.)