

SLOVENSKI STANDARD SIST EN 60684-3-121 to 124:2002

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Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheets 121 to 124: Extruded silicone sleeving (IEC 60684-3-121 to 124:2001)

Flexible insulating sleeving -- Part 3: Specifications for individual types of sleeving -- Sheets 121 to 124: Extruded silicone sleeving

Isolierschläuche -- Teil 3: Anforderungen für einzelne Schlauchtypen -- Blätter 121 und 124: Extrudierte Siliconschläuche (Standards.iteh.ai)

Gaines isolantes souples -- Partier3r Spécifications pounttypes particuliers de gaines -- Feuilles 121 à 124: Gaines en silicone extrudérds/sist/42984fc2-8213-4f56-bffe-2f98fed04cd7/sist-en-60684-3-121-to-124-2002

Ta slovenski standard je istoveten z: EN 60684-3-121 to 124:2001

ICS:

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FUROPEAN STANDARD

EN 60684-3-121 to 124

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 29.035.20

Supersedes HD 523.3.121 & 122 S1:1990 and EN 60684-3-123 & 124:1995

English version

Flexible insulating sleeving Part 3: Specifications for individual types of sleeving Sheets 121 to 124: Extruded silicone sleeving

(IEC 60684-3-121 to 124:2001)

Gaines isolantes souples

Partie 3: Spécifications pour types

particuliers de gaines

Feuilles 121 à 124: Gaines en silicone

extrudé

(CEI 60684-3-121 à 124:2001) ANDARD PREVIEW 124:2001)

Isolierschläuche

Teil 3: Bestimmungen für einzelne

Schlauchtypen

Blätter 121 und 124: Extrudierte

Siliconschläuche

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SIST EN 60684-3-121 to 124:2002

https://standards.iteh.ai/catalog/standards/sist/42984fc2-8213-4f56-bffe-

2f98fed04cd7/sist-en-60684-3-121-to-124-2002
This European Standard was approved by CENELEC on 2001-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, 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

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Foreword

The text of document 15C/1215/FDIS, future edition 2 of IEC 60684-3-121 to 124, prepared by SC 15C, Specifications, of IEC TC 15, Insulating materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60684-3-121 to 124 on 2001-09-01.

This European Standard supersedes HD 523.3.121 & 122 S1:1990 and EN 60684-3-123 & 124:1995.

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) 2002-06-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2004-09-01

Annexes designated "normative" are part of the body of the standard. In this standard, annex ZA is normative. Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60684-3-121 to 124:2001 was approved by CENELEC as a European Standard without any modification.) ARD PREVIEW

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SIST EN 60684-3-121 to 124:2002 https://standards.iteh.ai/catalog/standards/sist/42984fc2-8213-4f56-bffe-2f98fed04cd7/sist-en-60684-3-121-to-124-2002

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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: Specification requirements for individual types of sleeving (IEC 60684-3).

This standard contains four of the sheets comprising part 3 as follows:

Sheet 121: Extruded silicone sleeving - General purpose, flame retarded

Sheet 122: Extruded silicone sleeving - General purpose, flame retarded, low volatile

content

Sheet 123: Extruded silicone sleeving - General purpose

Sheet 124: Extruded silicone sleeving - General purpose, low volatile content.

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FLEXIBLE INSULATING SLEEVING -

Part 3: Specifications for individual types of sleeving – Sheets 121 to 124: Extruded silicone sleeving

1 Scope

These sheets of IEC 60684-3 gives the requirements for four types of non-heatshrinkable sleeving, extruded from silicone elastomer.

These sleevings are normally available with internal diameter up to 25 mm and in a range of wall thicknesses between 0,1 mm and 2,0 mm. National standards may select a restricted list of preferred combinations of internal diameter and wall thickness.

These sleevings are normally available in the following opaque colours: black, brown, red, orange, yellow, green, blue, violet, grey, white and pink. They are also available in a translucent form.

Sizes or colours other than those specifically 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 other property requirements listed in table 2.

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2 Normative references

SIST EN 60684-3-121 to 124:2002

The following normative documents contain provisions which through reference in this text, constitute provisions of this part of IEC 60684. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 60684 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

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

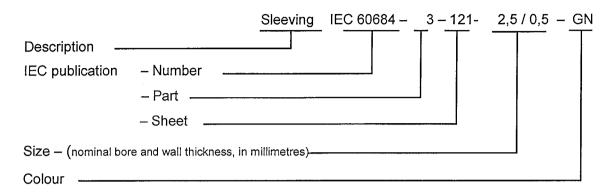
IEC 60684-2:1997, Specification for flexible insulating sleeving – Part 2: Methods of test

IEC 60757:1983, Code for designation of colours

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Designation

The sleeving shall be identified by the following designation:



Any abbreviation used for colour shall comply with IEC 60757, where applicable. Non-standard colours shall be written out in full. The abbreviation for translucent shall be "TL"

Requirements

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In addition to the general requirements given in IEC 60684-1, the sleeving shall comply with the requirements in tables 1, 2 and 3 tandards.iteh.ai)

SIST EN 60684-3-121 to 124:2002 Product qualification https://standards.iteh.ai/catalog/standards/sist/42984fc2-8213-4f56-bffe-

Product qualification shall normally be based on results from 82mm internal diameter black sleeving. Colour fastness to light shall be qualified for all colours.

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Table 1 - Nominal internal diameter

Nominal internal diameter	Tolerance on internal diameter			
mm	mm			
0,3	+0,10 -0,05			
0,5	+0,15			
0,8	-0,10			
1,0				
1,5	+0,20			
2,0	-0,15			
2,5				
3	±0,20			
4				
5				
6				
8	±0,25			
10				
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₂₀ (Standard)	s.iteh.ai) _{±0,50}			
25	21 (124 2002			
NOTE 1 Measurements shall be made to the nearest 0.05 mm. https://standards.itch.avcatalog/standards/sist/42/84/c2-8213-4f56-bffe-NOTE 2 See table 3 for wall thicknesses 60684-3-121-to-124-2002				

Table 2 – Property requirements

Property	IEC 60684-2 Clause or subclause	Units	Max. or min.	Requirements	Remarks
Dimensions	3	mm	_	Tables 1 and 3	
Volatile content (sheets 122 and 124 only)	12	%	Max.	1,0	
Bending after heating	13	_	ı	There shall be no cracking. The original colour shall still be clearly recognisable.	Test temperature: 200 °C ± 5 K. The mandrel diameter shall be twice the external diameter of the sleeve
Bending at low temperature	14	-	_	There shall be no cracking.	Test temperature -60 °C or lower. For nominal internal diameters of 8 mm, and below use a mandrel 18 to 20 times the nominal wall thickness. For nominal internal diameters of above 8 mm, use strips and a mandrel of 8 to 10 times the nominal wall thickness
Tensile strength	19.1 and 19.2	MPa	Min.	5,5	Jaw separation: (500 ± 25) mm/min
Elongation at break	19.1 and 19.2	%	Min.	200	Jaw separation: (500 ± 25) mm/min
Breakdown voltage	i Zeh	kV	Min. A	See table 3	IEW .
Volume resistivity – at room temperature	23.4.2	(Stai	Min.	ds.iteh.ai) 1 x 10 ¹¹	
 after damp heat 	23.4.4 https://standard	SIST E	<u>talog/star</u>	-3-121 tox12010002 dards/sist/42984fc2_82	13-456-hff
Flame propagation (sheets 121 and 122 only)	26 2198 Method A	fed0 \$ 4cd7	/siMaX1-6	0684-3-1 2 P-to-124-20	In addition the indicator flag shall not be burned away. The cotton shall not be ignited.
Electrolytic corrosion	31	_	Max.	Negative pole 1, 4 Positive pole A/B	Visual method
Thermal endurance	37	_	Min.	180	The end point shall be 50 % of the initial value of tensile strength