

## SLOVENSKI STANDARD SIST EN 61753-021-3:2013

01-maj-2013

Optični spojni elementi in pasivne komponente - Tehnični standard - 021-3. del: Konektorji za enorodna optična vlakna za kategorijo U - Nenadzorovano okolje (IEC 61753-021-3:2012)

Fibre optic interconnecting devices and passive components - Performance standard -Part 021-3: Single-mode fibre optic connectors for category U - Uncontrolled environment (IEC 61753-021-3:2012)

iTeh STANDARD PREVIEW
Lichtwellenleiter - Verbindungselemente und passive Bauteile - Betriebsverhalten - Teil 021-3: Lichtwellenleiter-Steckverbinder für Einmodenfasern für die Kategorie U -Unkontrollierte Umgebung (IEC 61753-021-3:2012)

SIST EN 61753-021-3:2013

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Dispositifs d'interconnexion et composants passives à fibres optiques - Norme de performance - Partie 021-3: Connecteurs à fibres optiques unimodales pour la catégorie U - Environnement non contrôlé (CEI 61753-021-3:2012)

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Fibre optic interconnecting

devices

SIST EN 61753-021-3:2013

en

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**EUROPEAN STANDARD** 

EN 61753-021-3

NORME FUROPÉENNE **EUROPÄISCHE NORM** 

March 2013

ICS 33.180.20

English version

Fibre optic interconnecting devices and passive components -Performance standard -

Part 021-3: Single-mode fibre optic connectors for category U -**Uncontrolled environment** 

(IEC 61753-021-3:2012)

Dispositifs d'interconnexion et composants passives à fibres optiques -Norme de performance -Partie 021-3: Connecteurs à fibres optiques unimodales pour la catégorie U -(CEI 61753-021-3:2012)

Lichtwellenleiter - Verbindungselemente und passive Bauteile -Betriebsverhalten -Teil 021-3: Lichtwellenleiter-Steckverbinder für Einmodenfasern für die Environnement non contrôlé TANDARD PKategorie U. Unkontrollierte Umgebung (IEC 61753-021-3:2012)

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## SIST EN 61753-021-3:2013

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Management Centre: Avenue Marnix 17, B - 1000 Brussels

#### **Foreword**

The text of document 86B/3495/FDIS, future edition 1 of IEC 61753-021-3, prepared by SC 86B, "Fibre optic interconnecting devices and passive components", of IEC TC 86, "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61753-021-3:2013.

The following dates are fixed:

•	latest date by which the document has to be implemented at national level by publication of an identical national	(dop)	2013-10-09
•	standard or by endorsement latest date by which the national standards conflicting with the	(dow)	2016-01-09

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#### **Endorsement notice**

The text of the International Standard IEC 61753-021-3:2012 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61300-2-19 https://standards.iren.avized.as\_EN 61300-2-19 77aea50-ba5e-4450-976c-

IEC 61755-3 series NOTE Harmonized in EN 61755-3 series.1-3-2013

# Annex ZA (normative)

# Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When 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>	EN/HD	<u>Year</u>
IEC 60793-2-50	2008	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	2008
IEC 61300-2-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1	-
IEC 61300-2-2	iT	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability	EN 61300-2-2	-
IEC 61300-2-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	-
IEC 61300-2-6	https://sta	Pibre optic interconnecting devices and c-445 passive components a Basic test and 13 measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism	<sup>0</sup> -ÊÑ 61300-2-6	-
IEC 61300-2-12 + corr. June	2009 2011	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests - Impact	EN 61300-2-12	2009
IEC 61300-2-17	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests - Cold	EN 61300-2-17	-
IEC 61300-2-18	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance	EN 61300-2-18 e	-
IEC 61300-2-22	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature	EN 61300-2-22	-
IEC 61300-2-42	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for connectors	EN 61300-2-42	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 61300-2-44	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices	EN 61300-2-44 f	-
IEC 61300-3-3	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss	EN 61300-3-3	-
IEC 61300-3-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	-
IEC 61300-3-6	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	-
IEC 61300-3-28	iT	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss	EN 61300-3-28	-
IEC 61300-3-34	- https://sta	Fibre optic interconnecting devices and passive components. Basic test and measurement procedures st/f/7aea50-ba5e-4450 Part 3-349 Examinations and measurements - Attenuation of random mated connectors		-
IEC 61753-1	2007	Fibre optic interconnecting devices and passive components performance standard - Part 1: General and guidance for performance standards	EN 61753-1 e	2007
IEC 61754	Series	Fibre optic connector interfaces	EN 61754	Series
IEC 61755	Series	Fibre optic connector optical interfaces	EN 61755	Series



## IEC 61753-021-3

Edition 1.0 2012-12

# INTERNATIONAL STANDARD

Fibre optic interconnecting devices and passive components – Performance standard – (standards.iteh.ai)
Part 021-3: Single-mode fibre optic connectors for category U – Uncontrolled environment SIST EN 61753-021-32013

https://standards.iteh.ai/catalog/standards/sist/f77aea50-ba5e-4450-976c-3b6da07dafb5/sist-en-61753-021-3-2013

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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## CONTENTS

FOI	REW	ORD	3
1	Scop	oe	5
2	Normative references		
3	Terms and definitions		
4	Tests		
5	Test report		
6	Reference components		
7			
	7.1	Dimensions	7
	7.2	Sample size	7
	7.3	Connector set sample test configuration	7
	7.4	Cord sample test configuration	8
	7.5	Optical Interface requirements	8
	7.6	Performance criteria	8
	7.7	Performance details	10
Anr	iex A	(normative) Sample size	17
Bib	liogra	iTeh STANDARD PREVIEW	18
Fig	ure 1	- Pigtail assembly(standards.iteh.ai)	8
Fig	ure 2	- Cord assembly	8
		SIST EN 61753-021-3:2013	
Tab	le 1 -	https://standards.iteh.ai/catalog/standards/sist/f77aea50-ba5e-4450-976c- - Requirements for different performance levels 1-3-2013	8
		- Performance details	
Tah	۸ ما	1 Sample size	17

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

# Part 021-3: Single-mode fibre optic connectors for category U – Uncontrolled environment

#### **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 61753-021-3 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86B/3495/FDIS	86B/3542/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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– 4 –

A list of all parts of the IEC 61753 series, published under the general title *Fibre optic interconnecting devices and passive components – Performance standard,* can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability 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.

A bilingual version of this publication may be issued at a later date.

# iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 61753-021-3:2013</u> https://standards.iteh.ai/catalog/standards/sist/f77aea50-ba5e-4450-976c-3b6da07dafb5/sist-en-61753-021-3-2013

# FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

# Part 021-3: Single-mode fibre optic connectors for category U – Uncontrolled environment

## 1 Scope

This part of IEC 61753 defines minimum initial test and measurement requirements and severities which a single-mode connector, either part of a pigtail, or part of a cord, must satisfy in order to be categorized as meeting the IEC standard category U (uncontrolled environment).

#### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

iTeh STANDARD PREVIEW

IEC 60793-2-50:2008, Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres rds.iteh.al)

IEC 61300-2-1, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures and Parti 2-1/2 Tests and Vibration (sinusoidal) 450-976c-

3b6da07dafb5/sist-en-61753-021-3-2013

IEC 61300-2-2, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-2: Tests – Mating durability

IEC 61300-2-4, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre/cable retention

IEC 61300-2-6, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-6: Tests – Tensile strength of coupling mechanism

IEC 61300-2-12:2009, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-12: Tests – Impact

IEC 61300-2-17, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-17: Tests – Cold

IEC 61300-2-18, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-18: Tests – Dry heat – High temperature endurance

IEC 61300-2-22, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-22: Tests – Change of temperature

IEC 61300-2-42, Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-42: Tests – Static side load for connectors