

SLOVENSKI STANDARD SIST EN 61753-031-6:2014

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Tehnični standard za optične spojne elemente in pasivne komponente - 031-6. del: Enorodni 1xN in 2xN ne-valovnodolžinsko selektivni optični sklopniki brez konektorjev za kategorijo O - Nenadzorovano okolje (IEC 61753-031-6:2014)

Fibre optic interconnecting devices and passive components performance standard -- Part 031-6: Non-connectorised single mode 1xN and 2xN non-wavelength-selective branching devices (NWBD) for Category O - Uncontrolled environment

iTeh STANDARD PREVIEW

Lichtwellenleiter-Verbindungselemente und passive Bauteile - Betriebsverhalten - Teil 031-6: Nicht steckbare wellenlängenunabhängige Einmoden-1xN- und 2xN-Verzweiger für die Kategorie O - Freiluftanlagen

<u>SIST EN 61753-031-62014</u> https://standards.iteh.ai/catalog/standards/sist/7f7c82f8-6e44-4e30-9a00-efa27f970dc3/sist-en-61753-031-6-2014

Ta slovenski standard je istoveten z: EN 61753-031-6:2014

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devices

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<u>SIST EN 61753-031-6:2014</u> https://standards.iteh.ai/catalog/standards/sist/7f7c82f8-6e44-4e30-9a00-efa27f970dc3/sist-en-61753-031-6-2014 EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM EN 61753-031-6

October 2014

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English Version

Fibre optic interconnecting devices and passive components Performance standard - Part 031-6: Non-connectorized singlemode 1xN and 2xN non-wavelengthselective branching devices
for Category O - Uncontrolled environment

(IEC 61753-031-6:2014)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Norme de performance Partie 031-6 : Dispositifs de couplage indépendants de la longueur d'onde 1×N et 2×N en unimodal nonconnectorisés pour la catégorie O - Environnement non contrôlé

(CEI 61753-031-6:2014)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Betriebsverhalten -Teil 031-6: Nicht steckbare wellenlängenunabhängige Einmoden-1×N- und -2×N-Verzweiger für die Kategorie O -Unkontrollierte Umgebung (IEC 61753-031-6:2014)

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Foreword

The text of document 86B/3763/FDIS, future edition 2 of IEC 61753-031-6, 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 61753-031-6:2014.

The following dates are fixed:

 latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement

 latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-10-08

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

IEC 60875-1 NOTE SHarmonized as EN 60875-121

IEC 61753-1 NOTE Harmonized as EN 61753-1.

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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 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60793-2-50	2012	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single- mode fibres	EN 60793-2-50	2013
IEC 61300-2-1	- iT	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1	-
IEC 61300-2-4	-	Fibre optic interconnecting devices and passive components Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	-
IEC 61300-2-5	https://sta	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion	⁴⁻³⁰ EN 61300-2-5	-
IEC 61300-2-9	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests - Shock	EN 61300-2-9	-
IEC 61300-2-14	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-14: Tests - High optical power	EN 61300-2-14	-
IEC 61300-2-19	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state)	EN 61300-2-19	-
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	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 61300-2-42	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for strain relief	EN 61300-2-42	-
IEC 61300-2-44	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relie of fibre optic devices	EN 61300-2-44 ef	-
IEC 61300-2-48	2009	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-48: Tests - Temperature-humidity cycling	EN 61300-2-48	2009
IEC 61300-3-2	2009	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-2: Examinations and measurements - Polarization dependent loss in a single-mode fibre optic device	EN 61300-3-2 s	2009
IEC 61300-3-3	11	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-3: Examinations and measurement - Active monitoring of changes in attenuation and return loss -6.2014		2009
IEC 61300-3-6	2008	andards.iteh.ai/catalog/standards/sist/7f7c82f8-6e44- Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurement - Return loss	EN 61300-3-6	2009
IEC 61300-3-7 (mod)	2009	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-7: Examinations and measurement - Wavelength dependence of attenuation and return loss of single mode component		2012
IEC 61300-3-20	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-20: Examinations and measurements - Directivity of fibre optic branching devices	EN 61300-3-20	-
IEC 61300-3-28	-	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 61753-031-6

Edition 2.0 2014-09

INTERNATIONAL STANDARD

Fibre optic interconnecting devices and passive components – Performance standard –

Part 031-6: Non-connectorized single-mode 1xN and 2xN non-wavelength-selective branching devices for Category Q = Uncontrolled environment

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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- 2 - IEC 61753-031-6:2014 © IEC 2014

CONTENTS

FOREWORD	3			
NOTICE	5			
1 Scope	6			
2 Normative references	6			
3 Test	7			
4 Test report	8			
5 Performance requirements	8			
5.1 Dimensions	8			
5.2 Sample size, sequencing and grouping	8			
5.3 Test details and requirements				
Annex A (normative) A and U requirements of 1 \times N and 2 \times N NWBDs	16			
A.1 Attenuation and uniformity requirements of 1×N and 2×N NWBDs calculated by the equations of Tests No.1 and 2	16			
A.2 Minimum requirements at room temperature of attenuation values for balanced bidirectional 1 \times N and 2 \times N NWBD	17			
Annex B (normative) Sequencing and grouping of tests	19			
iTeh STANDARD PREVIEW	20			
Table 1 – Test details and requirements (12016) s.iteh.ai.	9			
Table A.1 – Attenuation and uniformity requirements of balanced bidirectional NWBD having the most common port configurations for Class A,14with the underlying formulas as specified in the Tests flarands 2 to fa Table of Standards / Sist / 1,768 2 f8 - 664 4 - 4630 - 9200	16			
Table A.2 – Attenuation and uniformity requirements of balanced bidirectional NWBD having the most common port configurations for Class B, with the underlying formulas as specified in the Test 1s and 2 of Table 1	17			
Table A.3 – Attenuation requirements of 1×2 and 2×2 unbalanced NWBD having the most common port configurations, with the underlying formula as specified in the Test 1 of Table 1	17			
Table A.4 – Minimum requirements at room temperature of attenuation values for Class A balanced bidirectional NWBD	18			
Table A.5 – Minimum requirements at room temperature of attenuation values for Class A balanced bidirectional NWBD				
Table B.1 – Sample size for each test	19			

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

Part 031-6: Non-connectorized single-mode 1×N and 2×N non-wavelength-selective branching devices for Category O – Uncontrolled environment

FOREWORD

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International Standard IEC 61753-031-6 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition of IEC 61753-031-6 cancels and replaces the first edition published in 2008 and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) deletion of the Introduction;

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b) an updated and extended scope to reflect an introduction of two attenuation and uniformity performance classes for balanced NWBD instead of branching device technologies on the market:

– 4 –

- c) an updated list of normative references;
- d) a more simplified introduction to the two types of spectral bands;
- e) Clause 5, Performance requirements, has been updated and extended to reflect the introduction of two attenuation and uniformity performance classes for balanced NWBD;
- f) simplified test items to exclude tests for damp heat (steady state) and impact for performance requirements;
- g) Annex A has been changed to introduce the calculated and minimum requirements for attenuation and uniformity.

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

FDIS	Report on voting	
86B/3763/FDIS	86B/3825/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.

IEC 61753 consists of the following parts, under the general title Fibre optic interconnecting devices and passive components—Performance standard:

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.

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- 5 -

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