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| STN | Prevádzkové charakteristiky optovláknových spájacích prvkov a pasívnych súčiastok Časť 101-03: Systémy ukladania vlákien kategórie OP Vonkajšie chránené prostredie | STN EN IEC 61753-101-03 35 9254 |
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Fibre optic interconnecting devices and passive components performance standard - Part 101-03: Fibre management systems for category OP - Outdoor protected environment

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/22

Obsahuje: EN IEC 61753-101-03:2021, IEC 61753-101-03:2021

Oznámením tejto normy sa od 01.11.2022 ruší
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EUROPEAN STANDARD

EN IEC 61753-101-03

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2021

ICS 33.180.20

Supersedes EN 61753-101-3:2008 and all of its amendments and corrigenda (if any)

English Version

**Fibre optic interconnecting devices and passive components
performance standard - Part 101-03: Fibre management
systems for category OP - Outdoor protected environment
(IEC 61753-101-03:2021)**

Norme de performance pour les dispositifs d'interconnexion
et composants passifs fibroniques - Partie 101-03:
Systèmes de gestion de fibres pour la catégorie OP -
Environnement extérieur protégé
(IEC 61753-101-03:2021)

Lichtwellenleiter - Verbindungselemente und passive
Bauteile - Betriebsverhalten - Teil 101-3:
Einzelfasermanagementsysteme für die Kategorie OP -
Geschützte Freiluftanwendungen
(IEC 61753-101-03:2021)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61753-101-03:2021 (E)**European foreword**

The text of document 86B/4497/FDIS, future edition 1 of IEC 61753-101-03, 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 IEC 61753-101-03:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-08-01 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2022-11-01 document have to be withdrawn

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Endorsement notice

The text of the International Standard IEC 61753-101-03:2021 was approved by CENELEC as a European Standard without any modification.

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

IEC 60068-1 NOTE Harmonized as EN 60068-1

IEC 60332 (series) NOTE Harmonized as EN IEC 60332 (series)

IEC 60794-2 NOTE Harmonized as EN 60794-2

IEC 60794-3 NOTE Harmonized as EN 60794-3

IEC 61300 (series) NOTE Harmonized as EN 61300 (series)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where 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> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|-------------------|-------------|
| IEC 60068-2-10 | - | Environmental testing - Part 2-10: Tests - Test J and guidance: Mould growth | -EN 60068-2-10 | - |
| IEC 60721-3-1 | - | Classification of environmental conditions - Part 3-1: Classification of groups of environmental parameters and their severities - Storage | -EN IEC 60721-3-1 | - |
| IEC 60721-3-2 | - | Classification of environmental conditions - Part 3-2: Classification of groups of environmental parameters and their severities – Transportation and handling | -EN IEC 60721-3-2 | - |
| IEC 60793-2-50 | - | Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres | EN IEC 60793-2-50 | - |
| IEC 61300-1 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance | EN 61300-1 | - |
| 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 61300-2-4 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre or cable retention | EN IEC 61300-2-4 | - |
| 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 61300-2-22 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature | | - |

EN IEC 61753-101-03:2021 (E)

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| IEC 61300-2-33 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-33: Tests - Assembly and disassembly of fibre optic mechanical splices, fibre management systems and closures | and EN 61300-2-33 | - |
| 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 | and EN 61300-2-42 | - |
| IEC 61300-2-46 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat, cyclic | and EN IEC 61300-2-46 | - |
| IEC 61300-3-1 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-1: Examinations and measurements - Visual examination | and EN 61300-3-1 | - |
| 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 | and EN 61300-3-3 | - |
| IEC 61300-3-28 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss | and EN 61300-3-28 | - |
| IEC 61753-1 | - | Fibre optic interconnecting devices and passive components - Performance standard - Part 1: General and guidance | and EN IEC 61753-1 | - |
| IEC 61756-1 | - | Fibre optic interconnecting devices and passive components - Interface standard for fibre management systems - Part 1: General and guidance | and EN IEC 61756-1 | - |
| ISO 4892-3 | - | Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps | and EN ISO 4892-3 | - |



IEC 61753-101-03

Edition 1.0 2021-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components performance standard –
Part 101-03: Fibre management systems for category OP – Outdoor protected environment**

**Norme de performance pour les dispositifs d'interconnexion et composants passifs fibroniques –
Partie 101-03: Systèmes de gestion de fibres pour la catégorie OP – Environnement extérieur protégé**



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IEC 61753-101-03

Edition 1.0 2021-09

INTERNATIONAL STANDARD

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Part 101-03: Fibre management systems for category OP – Outdoor protected environment**

**Norme de performance pour les dispositifs d'interconnexion et composants passifs fibroniques –
Partie 101-03: Systèmes de gestion de fibres pour la catégorie OP – Environnement extérieur protégé**

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CONTENTS

| | |
|--|----|
| FOREWORD | 3 |
| 1 Scope | 5 |
| 2 Normative references | 5 |
| 3 Terms and definitions | 6 |
| 4 Abbreviated terms | 8 |
| 5 General requirements | 8 |
| 5.1 General | 8 |
| 5.2 Storage, transportation and packaging | 9 |
| 5.3 Installation and intervention | 9 |
| 5.4 Marking and identification | 9 |
| 5.5 Materials | 9 |
| 5.6 Safety | 10 |
| 6 Test | 10 |
| 6.1 General | 10 |
| 6.2 Test sample preparation | 11 |
| 6.3 Test and measurement methods | 11 |
| 6.4 Sample size | 11 |
| 6.5 Pass/fail criteria | 11 |
| 6.6 Test report | 11 |
| 7 Performance requirements | 12 |
| 7.1 Pass/fail criteria | 12 |
| 7.2 Performance requirements | 13 |
| Annex A (normative) Sample construction | 16 |
| A.1 Fibre type for test sample | 16 |
| A.2 FMS test sample configuration | 17 |
| A.2.1 FMS test sample configuration with splices only | 17 |
| A.2.2 FMS test sample with splices and connectors | 19 |
| Annex B (normative) Installation test | 21 |
| Annex C (informative) Access and reconfiguration tests | 22 |
| Bibliography | 23 |
| | |
| Figure A.1 – Sample configuration with splices only for climatic tests | 17 |
| Figure A.2 – Sample configuration with splices only for mechanical tests | 18 |
| Figure A.3 – Sample configuration with splices and connectors for climatic tests | 19 |
| Figure A.4 – Sample configuration with splices and connectors for mechanical tests | 20 |
| Figure B.1 – Test sample configuration for the installation test | 21 |
| | |
| Table 1 – Pass/fail requirements | 12 |
| Table 2 – Performance requirements | 13 |
| Table A.1 – Fibre references for IEC 60793-2-50, subcategory B-652.D | 16 |
| Table A.2 – Fibre references for IEC 60793-2-50, subcategory B-657.A1 | 16 |
| Table A.3 – Fibre references for IEC 60793-2-50, subcategory B-657.A2 | 17 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES AND
PASSIVE COMPONENTS PERFORMANCE STANDARD –****Part 101-03: Fibre management systems for category OP –
Outdoor protected 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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IEC 61753-101-03 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This first edition cancels and replaces IEC 61753-101-3 the first edition published in 2006. This edition constitutes a technical revision.

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

- a) the terms and definitions have been updated according to IEC 61753-1:2018 and IEC 61756-1:2019;
- b) the test severities have been updated according to IEC 61753-1:2018;
- c) detailed material tests for mould growth (IEC 60068-2-10) and UV light exposure (ISO 4892-3) have been added;

- d) the detailed transport performance requirements have been removed;
- e) IEC 60793-2-50 subcategory B-657 fibres for test samples in Annex A has been added.

The text of this International Standard is based on the following documents:

| Draft | Report on voting |
|---------------|------------------|
| 86B/4497/FDIS | 86B/4522/RVD |

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

A list of all parts in 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 document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS PERFORMANCE STANDARD –

Part 101-03: Fibre management systems for category OP – Outdoor protected environment

1 Scope

This part of IEC 61753 contains the minimum tests, test severities and measurement requirements which a fibre management system need to meet in order to be categorised as meeting the IEC standard, category OP – Outdoor Protected environment, as defined in IEC 61753-1.

This performance standard for fibre management systems defines the requirements for standard optical performance under a set of specified conditions. It contains a series or a set of tests and measurements with clearly stated conditions, severities and pass/fail criteria. The series of tests, commonly referred to as an operating service environment or performance category, is intended to be a basis to prove the product's ability to satisfy the requirements of a specific application, market sector or user group.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-2-10, *Environmental testing – Part 2-10: Tests – Test J and guidance: Mould growth*

IEC 60721-3-1, *Classification of environmental conditions – Part 3-1: Classification of groups of environmental parameters and their severities – Storage*

IEC 60721-3-2, *Classification of environmental conditions – Part 3-2: Classification of groups of environmental parameters and their severities – Transportation and handling*

IEC 60793-2-50, *Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres*

IEC 61300-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance*

IEC 61300-2-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-1: Tests – Vibration (sinusoidal)*

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

IEC 61300-2-9, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-9: Tests – Shock*

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

IEC 61300-2-33, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-33: Tests – Assembly and disassembly of fibre optic mechanical splices, fibre management systems and closures*

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*

IEC 61300-2-46, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-46: Tests – Damp heat, cyclic*

IEC 61300-3-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-1: Examinations and measurements – Visual examination*

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*

IEC 61300-3-28, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-28: Examinations and measurements – Transient loss*

IEC 61753-1, *Fibre optic interconnecting devices and passive components – Performance standard – Part 1: General and guidance*

IEC 61756-1, *Fibre optic interconnecting devices and passive components – Interface standard for fibre management systems – Part 1: General and guidance*

ISO 4892-3, *Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN