

**SLOVENSKI STANDARD**  
**SIST EN IEC 61753-061-2:2020****01-september-2020****Nadomešča:****SIST EN 61753-061-2:2013**

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**Optični spojni elementi in pasivne komponente - Tehnični standard - 061-2. del: Enorodovni optični izolatorji z repki, neodvisni od polarizacije, za kategorijo C - Nadzorovana okolja (IEC 61753-061-2:2020)**

Fibre optic interconnecting devices and passive components - Performance standard - Part 061-2: Single-mode fibre optic pigtailed style polarization independent isolators for category C - Controlled environments (IEC 61753-061-2:2020)

**ITeH STANDARD PREVIEW**

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Betriebsverhalten - Teil 061-2: Einmoden-Lichtwellenleiter-Isolatoren mit Pigtails für Kategorie C - Kontrollierte Umgebung (IEC 61753-061-2:2020)

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Dispositifs d'interconnexion et composants passifs à fibres optiques - Norme de performance - Partie 061-2: Isolateurs à fibres optiques unimodales munis de fibres amorces non connectées pour la catégorie C - Environnements contrôlés (IEC 61753-061-2:2020)

**Ta slovenski standard je istoveten z: EN IEC 61753-061-2:2020**

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**ICS:**

|           |                                       |                                     |
|-----------|---------------------------------------|-------------------------------------|
| 33.180.20 | Povezovalne naprave za optična vlakna | Fibre optic interconnecting devices |
|-----------|---------------------------------------|-------------------------------------|

**SIST EN IEC 61753-061-2:2020****en**

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EUROPEAN STANDARD

**EN IEC 61753-061-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2020

ICS 33.180.10

Supersedes EN 61753-061-2:2012 and all of its  
amendments and corrigenda (if any)

English Version

**Fibre optic interconnecting devices and passive components -  
Performance standard - Part 061-2: Single-mode fibre optic  
pigtailed style polarization independent isolators for category C -  
Controlled environments  
(IEC 61753-061-2:2020)**

Dispositifs d'interconnexion et composants passifs  
fibroniques - Norme de performance - Partie 061-2:  
Isolateurs fibroniques à fibres unimodales munis de fibres  
amorces non connectées pour la catégorie C -  
Environnements contrôlés  
(IEC 61753-061-2:2020)

Lichtwellenleiter - Verbindungselemente und passive  
Bauteile - Betriebsverhalten - Teil 061-2:  
Polarisationsunabhängige-Einmoden-Lichtwellenleiter-  
Isolatoren mit Pigtailed für Kategorie C - Kontrollierte  
Umgebung  
(IEC 61753-061-2:2020)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

**EN IEC 61753-061-2:2020 (E)****European foreword**

The text of document 86B/4270/FDIS, future edition 2 of IEC 61753-061-2, 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 61753-061-2:2020.

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 (dop) 2021-02-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-05-14

This document supersedes EN 61753-061-2:2012 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 61753-061-2:2020 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 61300-3-38 | NOTE | Harmonized as EN 61300-3-38  |
| IEC 61753-1    | NOTE | Harmonized as EN IEC 61753-1 |

## 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](http://www.cenelec.eu).

| <u>Publication</u> | <u>Year</u> | <u>Title</u>  | <u>EN/HD</u>      | <u>Year</u> |
|--------------------|-------------|---|-------------------|-------------|
| 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 60794-2-50     | -           | Optical fibre cables - Part 2-50: Indoor optical fibre cables - Family specification for simplex and duplex cables for use in terminated cable assemblies | EN IEC 60794-2-50 | -           |
| IEC 61202-1        | -           | Fibre optic interconnecting devices and passive components - Fibre optic isolators - Part 1: Generic specification  | EN 61202-1        | -           |
| 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 61300-2-5      | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion                            | 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      | -           |

## EN IEC 61753-061-2:2020 (E)

| <u>Publication</u> | <u>Year</u> | <u>Title</u>  | <u>EN/HD</u>  | <u>Year</u> |
|--------------------|-------------|---|---------------|-------------|
| IEC 61300-2-14     | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-14: Tests - High optical power  | -             | -           |
| 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 | -           |
| 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 | -           |
| 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 relief of fibre optic devices   | EN 61300-2-44 | -           |
| IEC 61300-3-2      | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-2: Examination and measurements - Polarization dependent loss in a single-mode fibre optic device                 | EN 61300-3-2  | -           |
| 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 61300-3-7      | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-7: Examinations and measurements - Wavelength dependence of attenuation and return loss of single mode components | -             | -           |

| <u>Publication</u> | <u>Year</u> | <u>Title</u>  | <u>EN/HD</u>  | <u>Year</u> |
|--------------------|-------------|---|---------------|-------------|
| 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 61300-3-32     | -           | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-32: Examinations and measurements - Polarization mode dispersion measurement for passive optical components | EN 61300-3-32 | -           |
| IEC/TS 62627-09    | -           | Fibre optic interconnecting devices and passive components - Vocabulary for passive optical devices   | -             | -           |

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IEC 61753-061-2

Edition 2.0 2020-04

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Performance standard –**

**Part 061-2: Single-mode fibre optic pigtailed style polarization independent isolators for category C – Controlled environments**

<https://standards.iteh.ai/catalog/standards/sist/9e610ca3-5e02-40ab-a3fe-311415601551/sist-en-iec-61753-061-2-2020>

**Dispositifs d'interconnexion et composants passifs fibroniques – Norme de performance –**

**Partie 061-2: Isolateurs fibroniques à fibres unimodales munis de fibres amorces non connectées pour la catégorie C – Environnements contrôlés**

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ICS 33.180.10

ISBN 978-2-8322-8108-6

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**FIBRE OPTIC INTERCONNECTING DEVICES AND  
PASSIVE COMPONENTS – PERFORMANCE STANDARD –**
**Part 061-2: Single-mode fibre optic pigtailed style  
polarization independent isolators for category C –  
Controlled environments**

## FOREWORD

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International Standard IEC 61753-061-2 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2012 and constitutes a technical revision.

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

- a) addition of the detail high optical power test procedures and the condition in Annex B;
- b) change of test conditions harmonizing with IEC 61753-1:2018;
- c) addition of category C<sup>HD</sup>;
- d) addition of the detailed measurements conditions in Annex C;
- e) change of clause structure accordance with the latest ISO/IEC Directives, Part 2.