
Optični spojni elementi in pasivne komponente - Tehnični standard - 082-02. del: Naprave WWDM (širokopasovni multipleks) s svitkastim enorodovnim optičnim vlaknom 1,31/1,55 μm za kategorijo C - Notranje nadzorovano okolje (IEC 61753-082-02:2024)

Fibre optic interconnecting devices and passive components - Performance standard - Part 082-02: Pigtailed single-mode fibre optic 1,31/1,55 μm WWDM devices for category C - Indoor controlled environment (IEC 61753-082-02:2024)

Lichtwellenleiter - Verbindungselemente und passive Bauelemente - Betriebsverhalten - Teil 082-02: Pigtailed-Einmoden-Lichtwellenleiter 1,31/1,55 μm WWDM-Geräte für die Kategorie C - Kontrollierte Innenraumumgebung (IEC 61753-082-02:2024)

Dispositifs d'interconnexion et composants passifs fibroniques - Norme de performance - Partie 082-02: Dispositifs WWDM 1,31 μm /1,55 μm fibroniques équipées d'une fibre amorce pour la catégorie C - Environnement intérieur contrôlé (IEC 61753-082-02:2024)

Ta slovenski standard je istoveten z: EN IEC 61753-082-02:2024

ICS:

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

SIST EN IEC 61753-082-02:2024 **en**

EUROPEAN STANDARD

EN IEC 61753-082-02

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2024

ICS 33.180.10

English Version

Fibre optic interconnecting devices and passive components -
Performance standard - Part 082-02: Pigtailed single-mode fibre
optic 1,31/1,55 μm WWDM devices for category C - Indoor
controlled environment
(IEC 61753-082-02:2024)

Dispositifs d'interconnexion et composants passifs
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Dispositifs WWDM 1,31 μm /1,55 μm fibroniques équipées
d'une fibre amorce pour la catégorie C - Environnement
intérieur contrôlé
(IEC 61753-082-02:2024)

Lichtwellenleiter - Verbindungselemente und passive
Bauelemente - Betriebsverhalten - Teil 082-02: Pigtailed-
Einmoden-Lichtwellenleiter 1,31/1,55 μm WWDM-Geräte
für die Kategorie C - Kontrollierte Innenraumumgebung
(IEC 61753-082-02:2024)

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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 61753-082-02:2024 (E)**European foreword**

The text of document 86B/4867/FDIS, future edition 1 of IEC 61753-082-02, 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 61753-082-02:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-02-22 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-05-22 document have to be withdrawn

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61300 series NOTE Approved as EN 61300 series

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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.cencenelec.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 cables - Family specification for simplex and duplex cables for use in terminated cable assemblies | EN IEC 60794-2-50 | - |
| IEC 61300-1 | 2022 | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance | EN IEC 61300-1 | 2022 |
| + AMD1 | 2024 | | + A1 | 2024 |
| IEC 61300-2-1 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal) | EN IEC 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 IEC 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 IEC 61300-2-14 | - |
| 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 | - |

EN IEC 61753-082-02:2024 (E)

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|-----------------|------|---|-------------------|---------|
| IEC 61300-2-18 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat | EN IEC 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 and components | EN IEC 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 61300-3-6 | - | 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 61300-3-7 | - | 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 | EN IEC 61300-3-7 | - |
| IEC 61300-3-29 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-29: Examinations and measurements - Spectral transfer characteristics of DWDM devices | EN 61300-3-29 | - |
| IEC 61753-1 | 2018 | Fibre optic interconnecting devices and passive components - Performance standard - Part 1: General and guidance | EN IEC 61753-1 | 2018 |
| - | - | | + AC | 2019-06 |
| + AMD1 | 2020 | | + A1 | 2020 |
| IEC 62074-1 | - | Fibre optic interconnecting devices and passive components - Fibre optic WDM devices - Part 1: Generic specification | EN 62074-1 | - |
| IEC/TS 62627-09 | - | Fibre optic interconnecting devices and passive components - Vocabulary for passive optical devices | - | - |



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NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Performance standard –
Part 082-02: Pigtailed single-mode fibre optic 1,31/1,55 μm WWDM devices for category C – Indoor controlled environment**

**Dispositifs d'interconnexion et composants passifs fibroniques – Norme de performance –
Partie 082-02: Dispositifs WWDM 1,31 μm /1,55 μm fibroniques équipées d'une fibre amorce pour la catégorie C – Environnement intérieur contrôlé**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES AND
PASSIVE COMPONENTS – PERFORMANCE STANDARD –****Part 082-02: Pigtailed single-mode fibre optic 1,31/1,55 µm WWDM
devices for category C – Indoor controlled environment**

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IEC 61753-082-02 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 the first edition of IEC 61753-082-2 published in 2008. This edition constitutes a technical revision.

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

- a) change of test conditions harmonizing with IEC 61753-1.

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

| Draft | Report on voting |
|---------------|------------------|
| 86B/4867/FDIS | 86B/4902/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/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

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- withdrawn, or
- revised.

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