
Optični spojni elementi in pasivne komponente - Tehnični standard - 086-02. del: Elementi WWDM brez konektorjev z enorodnimi vlakni velikosti 1490/1550 nm za prenos navzdol (dolvodni) in 1310 nm za prenos navzgor (gorvodni), za kategorijo C - Notranje nadzorovano okolje

Fibre optic interconnecting devices and passive components - Performance standard - Part 086-02: Non-connectorized single-mode bidirectional 1490 / 1550 nm downstream 1310 nm upstream WWDM devices for category c - Indoor controlled environment

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Document Delivery
Dispositifs d'interconnexion et composants passifs fibroniques - Norme de performance - Partie 086-02: Dispositifs WWDM unimodaux non connectés bidirectionnels 1 490 nm/1 550 nm en voie descendante et 1 310 nm en voie montante pour la catégorie c - Environnement intérieur contrôlé

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ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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IEC SC 86B : FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS	
SECRETARIAT: Japan	SECRETARY: Mr Shigeru Tomita
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input type="checkbox"/> SAFETY	
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TITLE:

Fibre optic interconnecting devices and passive components - Performance standard - Part 086-02: Non-connectorized single-mode bidirectional 1490 / 1550 nm downstream 1310 nm upstream WWDM devices for category C - Indoor controlled environment

PROPOSED STABILITY DATE: 2031

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FOREWORD

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26 International Standard IEC 61753-086-02 has been prepared by subcommittee 86B: Fibre optic
27 interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

28 This first edition cancels and replaces the first edition of IEC 61753-086-2 published in 2009
29 and constitutes a technical revision. The specific technical changes from the previous edition
30 are as follows:

31

- 32 a) Change of test conditions harmonizing with IEC 61753-1: 2018.

33

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35 The text of this document is based on the following documents:

FDIS	Report on voting
86B/XX/FDIS	86B/XX/RVD

36

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

39 This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

40 The committee has decided that the contents of this publication will remain unchanged until
41 _____. At this date, the publication will be

- 42 • reconfirmed;
- 43 • withdrawn;
- 44 • replaced by a revised edition, or
- 45 • amended.

46

47

48 FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS 49 PERFORMANCE STANDARD

50

51 Part 086-02: Non-connectorized single-mode bidirectional 1 490 / 1 550 nm 52 downstream and 1 310 nm upstream WWDM devices for categorie C – 53 Indoor controlled environment

54 1 Scope

55 This part of IEC 61753 contains the minimum initial performance, test and measurement
56 requirements and severities which a fibre optic pigtailed 1 490 / 1 550 nm downstream and
57 1 310 nm upstream wide wavelength division multiplexing (WWDM) passive optical network
58 (PON) device must satisfy in order to be categorized as meeting the requirements of category
59 C (Indoor controlled environment), as defined in Annex A of IEC 61753-1: 2018. WWDM is
60 defined in IEC 62074-1. Annex B give general information for these PON WWDM devices.

61 2 Normative references

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

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

68 IEC 60794-2-50, *Optical fibre cables Part 2-50: Indoor cables – Family specification for simplex*
69 *and duplex cables for use in terminated cable assemblies*

70 IEC 61300 (all parts), *Fibre optic interconnecting devices and passive components – Basic*
71 *test and measurement procedures*

72 IEC 61300-1, *Fibre optic interconnecting devices and passive components – Basic test and*
73 *measurement procedures – Part 1: General and guidance* -02:2024

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

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

78 IEC 61300-2-5, *Fibre optic interconnecting devices and passive components – Basic test and*
79 *measurement procedures – Part 2-5: Tests – Torsion*

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

82 IEC 61300-2-14, *Fibre optic interconnecting devices and passive components – Basic test*
83 *and measurement procedures – Part 2-14: Tests – High optical power*

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

86 IEC 61300-2-18, *Fibre optic interconnecting devices and passive components – Basic test*
87 *and measurement procedures – Part 2-18: Tests – Dry heat*

88 IEC 61300-2-19, *Fibre optic interconnecting devices and passive components – Basic test and*
89 *measurement procedures – Part 2-19: Tests – Damp heat (steady state)*