

<b>STN</b>	<b>Optické vlákna Časť 2-60: Špecifikácie výrobku Rámcová špecifikácia jednovidových vlákien pre vnútorné prepojenia kategórie C</b>	<b>STN EN IEC 60793-2-60</b>  35 9213
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Optical fibres - Part 2-60: Product specifications - Sectional specification for class C single-mode interconnection fibres

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. 02/26

Obsahuje: EN IEC 60793-2-60:2025, IEC 60793-2-60:2025

Oznámením tejto normy sa od 30.11.2028 ruší  
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EUROPEAN STANDARD

**EN IEC 60793-2-60**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

**Optical fibres - Part 2-60: Product specifications - Sectional specification for class C single-mode interconnection fibres (IEC 60793-2-60:2025)**

Fibres optiques - Partie 2-60: Spécifications de produits - Spécification intermédiaire pour les fibres d'interconnexion unimodales de classe C (IEC 60793-2-60:2025)

Lichtwellenleiter - Teil 2-60: Produktspezifikationen - Rahmenspezifikation für Einmoden-Verbindungsfasern der Kategorie C (IEC 60793-2-60:2025)

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

**EN IEC 60793-2-60:2025 (E)****European foreword**

The text of document 86A/2599/FDIS, future edition 2 of IEC 60793-2-60, prepared by SC 86A "Fibres and cables" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60793-2-60:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-11-30 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-11-30 document have to be withdrawn

This document supersedes EN 60793-2-60:2008 and all of its amendments and corrigenda (if any).

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**Endorsement notice**

The text of the International Standard IEC 60793-2-60:2025 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 standard indicated:

IEC 60793-1-34	NOTE	Approved as EN IEC 60793-1-34
IEC 60793-1-42	NOTE	Approved as EN 60793-1-42
IEC 60793-1-53	NOTE	Approved as EN 60793-1-53
IEC 60793-1-54	NOTE	Approved as EN IEC 60793-1-54

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-1-20	-	Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry	EN 60793-1-20	-
IEC 60793-1-21	-	Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry	EN 60793-1-21	-
IEC 60793-1-22	-	Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement	EN IEC 60793-1-22	-
IEC 60793-1-30	-	Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test	EN 60793-1-30	-
IEC 60793-1-31	-	Optical fibres - Part 1-31: Measurement methods and test procedures - Tensile strength	EN IEC 60793-1-31	-
IEC 60793-1-32	-	Optical fibres - Part 1-32: Measurement methods and test procedures - Coating strippability	EN IEC 60793-1-32	-
IEC 60793-1-33	-	Optical fibres - Part 1-33: Measurement methods and test procedures - Stress corrosion susceptibility	EN 60793-1-33	-
IEC 60793-1-40	-	Optical fibres - Part 1-40: Attenuation measurement methods	EN IEC 60793-1-40	-
IEC 60793-1-44	-	Optical fibres - Part 1-44: Measurement methods and test procedures - Cut-off wavelength	EN IEC 60793-1-44	-
IEC 60793-1-45	-	Optical fibres - Part 1-45: Measurement methods and test procedures - Mode field diameter	EN IEC 60793-1-45	-
IEC 60793-1-46	-	Optical fibres - Part 1-46: Measurement methods and test procedures - Monitoring of changes in attenuation	EN IEC 60793-1-46	-

**EN IEC 60793-2-60:2025 (E)**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-1-47	-	Optical fibres - Part 1-47: Measurement methods and test procedures - Macrobending loss	EN IEC 60793-1-47	-
IEC 60793-1-50	-	Optical fibres - Part 1-50: Measurement methods and test procedures - Damp heat (steady state) tests	EN 60793-1-50	-
IEC 60793-1-51	-	Optical fibres - Part 1-51: Measurement methods and test procedures - Dry heat (steady state) tests	EN 60793-1-51	-
IEC 60793-1-52	-	Optical fibres - Part 1-52: Measurement methods and test procedures - Change of temperature tests	EN 60793-1-52	-
IEC 60793-2	-	Optical fibres - Part 2: Product specifications - General	EN IEC 60793-2	-



IEC 60793-2-60

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# INTERNATIONAL STANDARD

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**Optical fibres -  
Part 2-60: Product specifications - Sectional specification for class C single-  
mode interconnection fibres**



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## CONTENTS

FOREWORD .....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms, definitions, symbols, and abbreviated terms .....	6
3.1 Terms and definitions .....	6
3.2 Symbols and abbreviated terms .....	6
4 Specifications .....	6
4.1 General .....	6
4.2 Dimensional requirements .....	7
4.3 Mechanical requirements .....	8
4.4 Transmission requirements .....	8
4.5 Environmental requirements .....	9
4.5.1 General .....	9
4.5.2 Transmission requirements .....	10
4.5.3 Mechanical requirements .....	10
Annex A (normative) Family specification for C1 single-mode fibres .....	12
A.1 General .....	12
A.2 Dimensional requirements .....	12
A.3 Mechanical requirements .....	12
A.4 Transmission requirements .....	13
A.5 Environmental requirements .....	13
A.5.1 General .....	13
A.5.2 Transmission requirements .....	13
A.5.3 Mechanical requirements – Coating strip force .....	14
Annex B (normative) Family specification for C2 single-mode fibres .....	15
B.1 General .....	15
B.2 Dimensional requirements .....	15
B.3 Mechanical requirements .....	15
B.4 Transmission requirements .....	15
B.5 Environmental requirements .....	16
B.5.1 General .....	16
B.5.2 Transmission requirements .....	16
B.5.3 Mechanical requirements – Coating strip force .....	16
Annex C (normative) Family specification for C3 single-mode fibres .....	17
C.1 General .....	17
C.2 Dimensional requirements .....	17
C.3 Mechanical requirements .....	17
C.4 Transmission requirements .....	18
C.5 Environmental requirements .....	18
C.5.1 General .....	18
C.5.2 Transmission requirements .....	18
C.5.3 Mechanical requirements – Coating strip force .....	18
Annex D (normative) Family specification for C4 single-mode fibres .....	19
D.1 General .....	19
D.2 Dimensional requirements .....	19
D.3 Mechanical requirements .....	19

## IEC 60793-2-60:2025 © IEC 2025

D.4	Transmission requirements .....	20
D.5	Environmental requirements .....	20
D.5.1	General .....	20
D.5.2	Transmission requirements.....	20
D.5.3	Mechanical requirements – Coating strip force .....	20
	Bibliography.....	21
	Table 1 – List of families and main differences.....	7
	Table 2 – Dimensional attributes and measurement methods .....	7
	Table 3 – Requirements common to class C fibres.....	8
	Table 4 – Mechanical attributes and measurement methods .....	8
	Table 5 – Mechanical requirements common to class C fibres .....	8
	Table 6 – Transmission attributes and measurement methods .....	9
	Table 7 – Transmission requirements common to class C fibres .....	9
	Table 8 – Transmission attributes required in family specifications .....	9
	Table 9 – Environmental attributes and test methods .....	9
	Table 10 – Environment-dependent mechanical or transmission attributes and test methods.....	10
	Table 11 – Tensile strength requirements common to class C fibres .....	10
	Table 12 – Stress corrosion susceptibility requirements common to class C fibres .....	11
	Table A.1 – Dimensional requirements for C1 fibres.....	12
	Table A.2 – Mechanical requirements for C1 fibres .....	12
	Table A.3 – Transmission requirements for C1 fibres .....	13
	Table A.4 – Environment-dependent transmission requirements for C1 fibres .....	13
	Table A.5 – Environment-dependent mechanical requirements for C1 fibres .....	14
	Table B.1 – Dimensional requirements for C2 fibres.....	15
	Table B.2 – Mechanical requirements for C2 fibres .....	15
	Table B.3 – Transmission requirements for C2 fibres .....	16
	Table B.4 – Environment-dependent transmission requirements for C2 fibres .....	16
	Table B.5 – Environment-dependent mechanical requirements for C2 fibres .....	16
	Table C.1 – Dimensional requirements for C3 fibres .....	17
	Table C.2 – Mechanical requirements for C3 fibres .....	17
	Table C.3 – Transmission requirements for C3 fibres.....	18
	Table C.4 – Environment-dependent transmission requirements for C3 fibres .....	18
	Table C.5 – Environment-dependent mechanical requirements for C3 fibres .....	18
	Table D.1 – Dimensional requirements for C4 fibres .....	19
	Table D.2 – Mechanical requirements for C4 fibres .....	19
	Table D.3 – Transmission requirements for C4 fibres.....	20
	Table D.4 – Environment-dependent transmission requirements for C4 fibres .....	20

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**Optical fibres -  
Part 2-60: Product specifications - Sectional specification  
for class C single-mode interconnection fibres**

## FOREWORD

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IEC 60793-2-60 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This second edition cancels and replaces the first edition published in 2008. This edition constitutes a technical revision.

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

- a) replacement of "intraconnection" with "interconnection" and addition of the definition of "interconnection fibres";
- b) modification of the nominal MFD limit of C1 fibres;
- c) addition of "Primary coating diameter-coloured" limits for class C fibres and change of "Primary coating diameter-uncoloured" limits for class C<sub>80</sub> fibres;

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- d) change of coating strip force limits for class C1, class C2, and class C3 fibres;
- e) replacement of "Fibre cut-off wavelength" with "Cable cut-off wavelength" and revision of "Note b" in Table 6;
- f) replacement of "Fibre cut-off wavelength" with "Cable cut-off wavelength" and deletion of the "Note" in Table 8;
- g) addition of 200 µm coating diameter requirements for C1\_125 fibres and change of coating diameters limits for C1\_80 fibres in Table A.1;
- h) addition of 200 µm coating diameter requirements for C1\_125 fibres and change of coating strip force limits in Table A.2 and in Table A.5;
- i) replacement of "Fibre cut-off wavelength" with "Cable cut-off wavelength", modification of the "Cable cut-off wavelength" limit and addition of a new "Note" in Table A.3;
- j) addition of a transmission requirements at 1 625 nm and deletion of 1 310 nm for C1 fibres in Table A.4;
- k) modification of "Fibre cut-off wavelength" limits of C3 fibres in Table C.3;
- l) replacement of "Fibre cut-off wavelength" with "Cable cut-off wavelength" for C4 fibres in Table D.3.

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

Draft	Report on voting
86A/2599/FDIS	86A/2617/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 60793 series, published under the general title *Optical fibres* 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](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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## 1 Scope

This part of IEC 60793 is applicable to optical fibre types C1, C2, C3, and C4, as described in Table 1. These fibres are used for the interconnections within or between optical components systems and are optimized to support dense optical connectivity. While the fibres can be overcoated or buffered for the purpose of making protected pigtails, they can be used without overcoating. They can, however, be colour coded.

## 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 60793-1-20, *Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry*

IEC 60793-1-21, *Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry*

IEC 60793-1-22, *Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement*

IEC 60793-1-30, *Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test*

IEC 60793-1-31, *Optical fibres - Part 1-31: Measurement methods and test procedures - Tensile strength*

IEC 60793-1-32, *Optical fibres - Part 1-32: Measurement methods and test procedures - Coating strippability*

IEC 60793-1-33, *Optical fibres - Part 1-33: Measurement methods and test procedures - Stress corrosion susceptibility*

IEC 60793-1-40, *Optical fibres - Part 1-40: Attenuation measurement methods*

IEC 60793-1-44, *Optical fibres - Part 1-44: Measurement methods and test procedures - Cut-off wavelength*

IEC 60793-1-45, *Optical fibres - Part 1-45: Measurement methods and test procedures - Mode field diameter*

IEC 60793-1-46, *Optical fibres - Part 1-46: Measurement methods and test procedures – Monitoring of changes in attenuation*

IEC 60793-1-47, *Optical fibres - Part 1-47: Measurement methods and test procedures - Macrobending loss*

IEC 60793-1-50, *Optical fibres - Part 1-50: Measurement methods and test procedures - Damp heat (steady state) tests*

IEC 60793-1-51, *Optical fibres - Part 1-51: Measurement methods and test procedures - Dry heat (steady state) tests*

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IEC 60793-1-52, *Optical fibres - Part 1-52: Measurement methods and test procedures - Change of temperature tests*

IEC 60793-2, *Optical fibres - Part 2: Product specifications - General*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**