



IEC 60793-2-60

Edition 2.0 2025-09

INTERNATIONAL STANDARD

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



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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_80 fibres;

- 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. 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 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 in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

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*

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*