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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 1
2 Normative references 6
3 Terms, definitions, symbols, and abbreviated terms 7
3.1 Terms and definitions 7
3.2 Symbols and abbreviated terms 7
4 Specifications 7
4.1 General 7
4.2 Dimensional requirements 8
4.3 Mechanical requirements 9
4.4 Transmission requirements 9
4.5 Environmental requirements 10
4.5.1 General 10
4.5.2 Transmission requirements 11
4.5.3 Mechanical requirements 11
Annex A (normative) Family specification for C1 single-mode fibres 13
A.1 ~~Introduction~~General 13
A.2 Dimensional requirements 13
A.3 Mechanical requirements 13
A.4 Transmission requirements 14
A.5 Environmental requirements 14
A.5.1 General 14
A.5.2 Transmission requirements 14
A.5.3 Mechanical requirements – Coating strip force 15
Annex B (normative) Family specification for C2 single-mode fibres 16
B.1 ~~Introduction~~General 16
B.2 Dimensional requirements 16
B.3 Mechanical requirements 16
B.4 Transmission requirements 17
B.5 Environmental requirements 17
B.5.1 General 17
B.5.2 Transmission requirements 17
B.5.3 Mechanical requirements – Coating strip force 17
Annex C (normative) Family specification for C3 single-mode fibres 18
C.1 ~~Introduction~~General 18
C.2 Dimensional requirements 18
C.3 Mechanical requirements 18
C.4 Transmission requirements 19
C.5 Environmental requirements 19
C.5.1 General 19
C.5.2 Transmission requirements 19
C.5.3 Mechanical requirements – Coating strip force 19
Annex D (normative) Family specification for C4 single-mode fibres 20
D.1 ~~Introduction~~General 20
D.2 Dimensional requirements 20
D.3 Mechanical requirements 20

D.4 Transmission requirements 21
D.5 Environmental requirements 21
D.5.1 General 21
D.5.2 Transmission requirements 21
D.5.3 Mechanical requirements – Coating strip force 21
Bibliography 22

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

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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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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 60793-2-60:2008. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

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 ~~intraconnections~~ interconnections within or between optical components ~~or photonic~~ systems ~~or subsystems~~ and are optimized to support dense optical connectivity. ~~While the fibres are sold in lengths on the scale of kilometres, they are normally cut into short lengths for use in these intraconnections.~~ While the fibres ~~could~~ can be overcoated or buffered for the purpose of making protected pigtails, they ~~may~~ can be used without overcoating. They ~~may~~ 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 ~~and test procedures – Attenuation~~*

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 ~~optical transmittance~~ 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*

~~IEC/TR 61931, *Fibre optic – Terminology*~~

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

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

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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

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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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.

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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*

SOMMAIRE

AVANT-PROPOS 4
1 Domaine d'application 6
2 Références normatives 6
3 Termes, définitions, symboles et abréviations 7
3.1 Termes et définitions 7
3.2 Symboles et abréviations 7
4 Spécifications 7
4.1 Généralités 7
4.2 Exigences dimensionnelles 8
4.3 Exigences mécaniques 9
4.4 Exigences de transmission 10
4.5 Exigences d'environnement 10
4.5.1 Généralités 10
4.5.2 Exigences de transmission 11
4.5.3 Exigences mécaniques 11
Annexe A (normative) Spécification de famille pour les fibres unimodales de type C1 13
A.1 Généralités 13
A.2 Exigences dimensionnelles 13
A.3 Exigences mécaniques 13
A.4 Exigences de transmission 14
A.5 Exigences d'environnement 14
A.5.1 Généralités 14
A.5.2 Exigences de transmission 14
A.5.3 Exigences mécaniques – Force de dénudage 15
Annexe B (normative) Spécification de famille pour les fibres unimodales de type C2 16
B.1 Généralités 16
B.2 Exigences dimensionnelles 16
B.3 Exigences mécaniques 16
B.4 Exigences de transmission 17
B.5 Exigences d'environnement 17
B.5.1 Généralités 17
B.5.2 Exigences de transmission 17
B.5.3 Exigences mécaniques – Force de dénudage 17
Annexe C (normative) Spécification de famille pour les fibres unimodales de type C3 18
C.1 Généralités 18
C.2 Exigences dimensionnelles 18
C.3 Exigences mécaniques 18
C.4 Exigences de transmission 19
C.5 Exigences d'environnement 19
C.5.1 Généralités 19
C.5.2 Exigences de transmission 19
C.5.3 Exigences mécaniques – Force de dénudage 20
Annexe D (normative) Spécification de famille pour les fibres unimodales de type C4 21
D.1 Généralités 21
D.2 Exigences dimensionnelles 21
D.3 Exigences mécaniques 22

D.4 Exigences de transmission 22
D.5 Exigences d'environnement 22
D.5.1 Généralités 22
D.5.2 Exigences de transmission 23
D.5.3 Exigences mécaniques – Force de dénudage 23
Bibliographie 24

Tableau 1 – Liste des familles et principales différences 8
Tableau 2 – Attributs dimensionnels et méthodes de mesure 8
Tableau 3 – Exigences communes aux fibres de classe C 9
Tableau 4 – Attributs mécaniques et méthodes de mesure 9
Tableau 5 – Exigences mécaniques communes aux fibres de classe C 9
Tableau 6 – Attributs de transmission et méthodes de mesure 10
Tableau 7 – Exigences de transmission communes aux fibres de classe C 10
Tableau 8 – Attributs de transmission exigés dans les spécifications de famille 10
Tableau 9 – Attributs d'environnement et méthodes d'essai 11
Tableau 10 – Attributs mécaniques ou de transmission dépendant de l'environnement et méthodes d'essai 11
Tableau 11 – Exigences relatives à la résistance à la traction communes aux fibres de classe C 11
Tableau 12 – – Exigences de résistance à la corrosion sous contrainte communes aux fibres de classe C 12
Tableau A.1 – Exigences dimensionnelles pour les fibres de type C1 13
Tableau A.2 – Exigences mécaniques pour les fibres de type C1 14
Tableau A.3 – Exigences de transmission pour les fibres de type C1 14
Tableau A.4 – Exigences de transmission dépendant de l'environnement pour les fibres de type C1 15
Tableau A.5 – Exigences mécaniques dépendant de l'environnement pour les fibres de type C1 15
Tableau B.1 – Exigences dimensionnelles pour les fibres de type C2 16
Tableau B.2 – Exigences mécaniques pour les fibres de type C2 16
Tableau B.3 – Exigences de transmission pour les fibres de type C2 17
Tableau B.4 – Exigences de transmission dépendant de l'environnement pour les fibres de type C2 17
Tableau B.5 – Exigences mécaniques dépendant de l'environnement pour les fibres de type C2 17
Tableau C.1 – Exigences dimensionnelles pour les fibres de type C3 18
Tableau C.2 – Exigences mécaniques pour les fibres de type C3 18
Tableau C.3 – Exigences de transmission pour les fibres de type C3 19
Tableau C.4 – Exigences de transmission dépendant de l'environnement pour les fibres de type C3 19
Tableau C.5 – Exigences mécaniques dépendant de l'environnement pour les fibres de type C3 20
Tableau D.1 – Exigences dimensionnelles pour les fibres de type C4 21
Tableau D.2 – Exigences mécaniques pour les fibres de type C4 22
Tableau D.3 – Exigences de transmission pour les fibres de type C4 22

Tableau D.4 – Exigences de transmission dépendant de l’environnement pour les fibres de type C4 23