



NSAI
Standards

Irish Standard
I.S. EN IEC 60794-2-21:2019

Optical fibre cables - Part 2-21: Indoor cables - Detailed specification for multi-fibre optical distribution cables for use in premises cabling

I.S. EN IEC 60794-2-21:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN IEC 60794-2-21:2019 is the adopted Irish version of the European Document EN IEC 60794-2-21:2019, Optical fibre cables - Part 2-21: Indoor cables - Detailed specification for multi-fibre optical distribution cables for use in premises cabling

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EUROPEAN STANDARD

EN IEC 60794-2-21

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 33.180.10

Supersedes EN 60794-2-21:2012

English Version

**Optical fibre cables - Part 2-21: Indoor cables - Detailed
specification for multi-fibre optical distribution cables for use in
premises cabling
(IEC 60794-2-21:2019)**

Câbles à fibres optiques - Partie 2-21: Câbles intérieurs -
Spécification particulière pour les câbles optiques
multifibres de distribution utilisés dans le câblage de locaux
(IEC 60794-2-21:2019)

Lichtwellenleiterkabel - Teil 2-21: LWL-Innenkabel -
Bauartspezifikation für Mehrfaserverteilerkabel für
anwendungsneutrale Standortverkabelung
(IEC 60794-2-21:2019)

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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 60794-2-21:2019 (E)

European foreword

The text of document 86A/1925/FDIS, future edition 3 of IEC 60794-2-21, 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 60794-2-21:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-02-17
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-05-17

This document supersedes EN 60794-2-21:2012.

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Endorsement notice

The text of the International Standard IEC 60794-2-21:2019 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 standards indicated:

IEC 60794-1-21	NOTE	Harmonized as EN 60794-1-21
IEC 60794-1-22	NOTE	Harmonized as EN IEC 60794-1-22
IEC 60794-1-23	NOTE	Harmonized as EN 60794-1-23
IEC 60794-2	NOTE	Harmonized as EN 60794-2
IEC 60794-2-10:2011	NOTE	Harmonized as EN 60794-2-10:2011 (not modified)

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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-2-10	— ¹	Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN IEC 60793-2-10	— ²
IEC 60793-2-50	2018	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN IEC 60793-2-50	2019
IEC 60794-1-1	2015	Optical fibre cables - Part 1-1: Generic specification - General	EN 60794-1-1	2016
IEC 60794-2-20	2013	Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables	EN 60794-2-20	2014

¹ Under preparation. Stage at the time of publication: IEC DECFDIS 60793-2-10:2019.

² Under preparation. Stage at the time of publication: FprEN IEC 60793-2-10:2019.

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IEC 60794-2-21

Edition 3.0 2019-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Optical fibre cables –
Part 2-21: Indoor cables – Detailed specification for multi-fibre optical
distribution cables for use in premises cabling**

**Câbles à fibres optiques –
Partie 2-21: Câbles intérieurs – Spécification particulière pour les câbles
optiques multifibres de distribution utilisés dans le câblage de locaux**





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IEC 60794-2-21

Edition 3.0 2019-04

INTERNATIONAL STANDARD

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

Part 2-21: Indoor cables – Detailed specification for multi-fibre optical distribution cables for use in premises cabling

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60794-2-21 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This third edition cancels and replaces the second edition published in 2012. It constitutes a technical revision.

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

- a) incorporation of the OM5 cabled fibre performance category;
- b) incorporation of the OS1a cabled fibre performance category;
- c) cabled fibre performance categories OM1, OM2 and OS1 are no longer normative, and are retained for information.

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

FDIS	Report on voting
86A/1925/FDIS	86A/1935RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 60794 series, published under the general title *Optical fibre cables*, 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 "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

OPTICAL FIBRE CABLES –

Part 2-21: Indoor cables – Detailed specification for multi-fibre optical distribution cables for use in premises cabling

1 Scope

This part of IEC 60794 presents the detailed requirements specific to this type of cable to ensure compatibility with the series of International Standards ISO/IEC 11801, *Information technology – Generic cabling for customer premises* (Parts 1 to 6).

The requirements of family specification IEC 60794-2-20 are applicable to cables covered by this document.

Particular requirements detailed in Clause 4 define either a specific option in relation to the requirements of IEC 60794-2-20 or additional requirements.

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 60793-2-10:—, *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres*¹

IEC 60793-2-50:2018, *Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres*

IEC 60794-1-1:2015, *Optical Fibre cables – Part 1-1: Generic specification – General*

IEC 60794-2-20:2013, *Optical fibre cables – Part 2-20: Indoor cables – Family specification for multi-fibre optical cables*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
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¹ Edition 7 under preparation. Stage at the time of publication: IEC DECFDIS 60793-2-10:2019.

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