BS EN IEC 60794-2-11:2019+A1:2021

BSI Standards Publication

Optical fibre cables

Part 2-11: Indoor cables — Detailed specification for simplex and duplex cables for use in premises cabling

bsi.

National foreword

This British Standard is the UK implementation of EN IEC 60794-2-11:2019+A1:2021. It is identical to IEC 60794-2-11:2019, incorporating amendment 1:2020. It supersedes BS EN IEC 60794-2-11:2019, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GEL/86/1, Optical fibres and cables.

A list of organizations represented on this committee can be obtained on request to its committee manager.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 June 2019.

Amendments/corrigenda issued since publication

Date	Text affected
31 January 2021	Implementation of IEC amendment 1:2020 with CENELEC endorsement A1:2021: replacement of Table 3

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 60794-2-11:2019+A1

January 2021

ICS 33.180.10

English Version

Optical fibre cables - Part 2-11: Indoor cables - Detailed specification for simplex and duplex cables for use in premises cabling (IEC 60794-2-11:2019)

Câbles à fibres optiques - Partie 2-11: Câbles intérieurs - Spécification particulière pour les câbles simplex et duplex utilisés dans le câblage de locaux (IEC 60794-2-11:2019)

Lichtwellenleiterkabel - Teil 2-11: LWL-Innenkabel - Bauartspezifikation für Simplex- und Duplexkabel für anwendungsneutrale Standortverkabelung (IEC 60794-2-11:2019)

This European Standard was approved by CENELEC on 2019-05-17. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

European foreword

The text of document 86A/1924/FDIS, future edition 3 of IEC 60794-2-11, 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 60794-2-11:2019.

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 60794-2-11:2012.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60794-2-11:2019 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

Foreword to amendment A1

The text of document 86A/2011/CDV, future IEC 60794-2-11/A1, 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 60794-2-11:2019/A1:2021.

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) 2021-09-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-12-23

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Endorsement notice

The text of the International Standard IEC 60794-2-11:2019/A1:2020 was approved by CENELEC as a European Standard without any modification.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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International Standard IEC 60794-2-11 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/1924/FDIS	86A/1934/RVD

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.

IEC 60794-2-11:2019+A1:2020

INTRODUCTION to Amendment

This amendment adds an important update considered during the development of the base publication IEC 60794-2-11:2019.

As regards minimum multimode fibre bandwidth requirements (Table 3), this amendment provides new guidance as concerns effective modal bandwidth in the 840 nm to 953 nm wavelength range which was not considered mature enough during the development of IEC 60794-2-11:2019.

It is expected that the content of this amendment will be incorporated into the future edition 4 of IEC 60794-2-11.

IEC 60794-2-11:2019+A1:2020

OPTICAL FIBRE CABLES –

Part 2-11: Indoor cables – Detailed specification for simplex and duplex 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 60794-2-10 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 60794-2-10 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 60794-2-10:2011, *Optical fibre cables – Part 2-10: Indoor optical fibre cables – Family specification for simplex and duplex 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/
- ISO Online browsing platform: available at http://www.iso.org/obp

[1] Edition 7 under preparation. Stage at the time of publication: IEC DECFDIS 60793-2-10:2019.