

<b>STN</b>	<b>Optické káble</b> <b>Časť 2-10: Vnútorne optické káble</b> <b>Skupinová špecifikácia simplex a duplex káblov</b>	<b>STN</b> <b>EN IEC 60794-2-10</b>  35 9223
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Optical fibre cables - Part 2-10: Indoor optical fibre cables - Family specification for simplex and duplex cables

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. 06/23

Obsahuje: EN IEC 60794-2-10:2023, IEC 60794-2-10:2023

Oznámením tejto normy sa od 14.04.2026 ruší  
STN EN 60794-2-10 (35 9223) z februára 2012

**137023**





EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60794-2-10**

April 2023

ICS 33.180.10

Supersedes EN 60794-2-10:2011

English Version

**Optical fibre cables - Part 2-10: Indoor optical fibre cables -  
Family specification for simplex and duplex cables  
(IEC 60794-2-10:2023)**

Câbles à fibres optiques - Partie 2-10: Câbles intérieurs à  
fibres optiques - Spécification de famille pour les câbles  
simplex et duplex  
(IEC 60794-2-10:2023)

Lichtwellenleiterkabel - Teil 2-10: LWL-Innenkabel -  
Familienspezifikation für Simplex- und Duplexkabel  
(IEC 60794-2-10:2023)

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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 60794-2-10:2023 (E)****European foreword**

The text of document 86A/2277/FDIS, future edition 3 of IEC 60794-2-10, 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 60794-2-10:2023.

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) 2024-01-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-04-14

This document supersedes EN 60794-2-10:2011 and all of its amendments and corrigenda (if any).

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.

This document is read in conjunction with EN IEC 60794-1-1:—<sup>1</sup>, EN IEC 60794-1-2:2021, EN 60794-1-21:2015 and EN 60794-1-21:2015/A1:2020, EN IEC 60794-1-22:2018, EN IEC 60794-1-23:2019 and EN 60794-2:2017.

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**Endorsement notice**

The text of the International Standard IEC 60794-2-10:2023 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 60654-4 NOTE Approved as EN 60654-4
- IEC 60721-1 NOTE Approved as EN 60721-1
- IEC 60721-3-3 NOTE Approved as EN IEC 60721-3-3
- IEC 60811-202 NOTE Approved as EN 60811-202
- IEC 60811-501 NOTE Approved as EN 60811-501
- IEC 61000-6-2 NOTE Approved as EN IEC 61000-6-2
- IEC 61918 NOTE Approved as EN IEC 61918

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<sup>1</sup> To be published. Stage at time of publication: FprEN IEC 60794-1-1:2023.

## 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 60304	-	Standard colours for insulation for low-frequency cables and wires	HD 402 S2	-
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 60793-1-40	-	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 60793-1-44	-
IEC 60793-2	-	Optical fibres - Part 2: Product specifications - General	EN IEC 60793-2	-
IEC 60793-2-10	-	Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN IEC 60793-2-10	-
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN IEC 60793-2-50	-
IEC 60794-1-1	2022	Optical fibre cables - Part 1-1: Generic specification - General	EN 60794-1-1	— <sup>1</sup>
IEC 60794-1-2	-	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance	EN IEC 60794-1-2	-
IEC 60794-1-21	-	Optical fibre cables - Part 1-21: Generic specification - Basic optical cable test procedures - Mechanical tests methods	EN 60794-1-21	-
IEC 60794-1-22	-	Optical fibre cables - Part 1-22: Generic specification - Basic optical cable test procedures - Environmental test methods	EN IEC 60794-1-22	-

**EN IEC 60794-2-10:2023 (E)**

IEC 60794-1-23	-	Optical fibre cables - Part 1-23: Generic specification - Basic optical cable test procedures - Cable element test methods	EN IEC 60794-1-23 -	
IEC 60794-2	2017	Optical fibre cables - Part 2: Indoor cables - Sectional specification	EN 60794-2	2017
IEC 60811-201	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 201: General tests - Measurement of insulation thickness	EN 60811-201	-
IEC 60811-203	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 203: General tests - Measurement of overall dimensions	EN 60811-203	-





IEC 60794-2-10

Edition 3.0 2023-03

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Optical fibre cables –  
Part 2-10: Indoor optical fibre cables – Family specification for simplex and  
duplex cables**

**Câbles à fibres optiques –  
Partie 2-10: Câbles intérieurs à fibres optiques – Spécification de famille pour  
les câbles simplex et duplex**





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IEC 60794-2-10

Edition 3.0 2023-03

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Optical fibre cables –  
Part 2-10: Indoor optical fibre cables – Family specification for simplex and  
duplex cables**

**Câbles à fibres optiques –  
Partie 2-10: Câbles intérieurs à fibres optiques – Spécification de famille pour  
les câbles simplex et duplex**

INTERNATIONAL  
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ICS 33.180.10

ISBN 978-2-8322-6534-5

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## OPTICAL FIBRE CABLES –

### Part 2-10: Indoor optical fibre cables – Family specification for simplex and duplex cables

#### FOREWORD

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IEC 60794-2-10 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This third edition cancels and replaces the second edition published in 2011. This edition constitutes a technical revision.

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

- a) updating of normative references;
- b) updating of all relevant A1 and B1 fibre category and sub-category designations.

This International Standard is to be used in conjunction with IEC 60794-1-1:2022, IEC 60794-1-2:2021, IEC 60794-1-21:2015 and IEC 60794-1-21:2015/AMD1:2020, IEC 60794-1-22:2017, IEC 60794-1-23:2019 and IEC 60794-2:2017.

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

Draft	Report on voting
86A/2277/FDIS	86A/2311/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 of IEC 60794 series, published under the general title *Optical fibre cables*, can be found on the IEC website.

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## OPTICAL FIBRE CABLES –

### Part 2-10: Indoor optical fibre cables – Family specification for simplex and duplex cables

#### 1 Scope

This part of IEC 60794 is a family specification that covers simplex and duplex optical fibre cables for indoor use. The requirements of IEC 60794-2 are applicable to cables covered by this document.

For cables intended for installation in industrial applications specified in ISO/IEC 11801-1, MICE specifications can be additionally required (see Clause B.2).

#### 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 60304, *Standard colours for insulation for low-frequency cables and wires*

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 60793-1-40, *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 60793-2, *Optical fibres – Part 2: Product specifications – General*

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

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

IEC 60794-1-1:2022, *Optical fibre cables – Part 1-1: Generic specification – General*

IEC 60794-1-2, *Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures – General guidance*

IEC 60794-1-21, *Optical fibre cables – Part 1-21: Generic specification – Basic optical cable test procedures – Mechanical tests methods*

IEC 60794-1-22, *Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental test methods*

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IEC 60794-1-23, *Optical fibre cables – Part 1-23: Generic specification – Basic optical cable test procedures – Cable element test methods*

IEC 60794-2:2017, *Optical fibre cables – Part 2: Indoor cables – Sectional specification*

IEC 60811-201, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 201: General tests – Measurement of insulation thickness*

IEC 60811-203, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 203: General tests – Measurement of overall dimensions*

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