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Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables

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<p>See Eesti standard EVS-EN IEC 60794-2-20:2025 sisaldab Euroopa standardi EN IEC 60794-2-20:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 31.01.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN IEC 60794-2-20:2025 consists of the English text of the European standard EN IEC 60794-2-20:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 31.01.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 33.180.01

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EUROPEAN STANDARD

**EN IEC 60794-2-20**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2025

ICS 33.180.01

Supersedes EN 60794-2-20:2014

English Version

**Optical fibre cables - Part 2-20: Indoor cables - Family  
specification for multi-fibre optical cables  
(IEC 60794-2-20:2024)**

Câbles à fibres optiques - Partie 2-20 : Câbles intérieurs -  
Spécification de famille pour les câbles optiques multifibres  
(IEC 60794-2-20:2024)

Lichtwellenleiterkabel - Teil 2-20: LWL-Innenkabel -  
Familienspezifikation für Mehrfaser-Lichtwellenleiterkabel  
(IEC 60794-2-20:2024)

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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**

## European foreword

The text of document 86A/2431/FDIS, future edition 4 of IEC 60794-2-20, 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 60794-2-20:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-01-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-01-31 document have to be withdrawn

This document supersedes EN 60794-2-20:2014 and all of its amendments and corrigenda (if any).

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This document is read in conjunction with EN IEC 60794-1-1:2023, EN IEC 60794-1-2:2021, EN 60794-1-21:2015<sup>1</sup>, EN IEC 60794-1-22:2018, EN IEC 60794-1-23:2019, and EN 60794-2:2017.

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IEC 60654 series	NOTE	Approved as EN 60654 series
IEC 60721-1	NOTE	Approved as EN 60721-1
IEC 60721-3-3	NOTE	Approved as EN IEC 60721-3-3
IEC 60794-1-3	NOTE	Approved as EN 60794-1-3
IEC 60794-1-21	NOTE	Approved as EN 60794-1-21
IEC 61000-6-2	NOTE	Approved as EN IEC 61000-6-2
IEC 61753-1	NOTE	Approved as EN IEC 61753-1
IEC 61918	NOTE	Approved as EN IEC 61918
IEC 60794-2 series	NOTE	Approved as EN IEC 60794-2 series

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<sup>1</sup> As impacted by EN 60794-1-21:2015/A1:2020.

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



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

**Câbles à fibres optiques –  
Partie 2-20: Câbles intérieurs – Spécification de famille pour les câbles optiques  
multifibres**



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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



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

**Câbles à fibres optiques –  
Partie 2-20: Câbles intérieurs – Spécification de famille pour les câbles optiques  
multifibres**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPTICAL FIBRE CABLES –

**Part 2-20: Indoor cables –  
Family specification for multi-fibre optical cables**

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IEC 60794-2-20 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2013. This edition constitutes a technical revision.

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

- a) update of the normative references;
- b) review update of parameters and requirements for mechanical tests and environmental tests, maintaining alignment with additional relevant standards in the IEC 60794-2 series;
- c) addition of cabled fibre attenuation requirements;

d) addition of cable design examples.

This document is to be used in conjunction with IEC 60794-1-1:2023, IEC 60794-1-2:2021, IEC 60794-1-21:2015 and IEC 60794-1-21:2015/AMD: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/2431/FDIS	86A/2520/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 2-20: Indoor cables – Family specification for multi-fibre optical cables

#### 1 Scope

This part of IEC 60794 is a family specification covering multi-fibre optical cables for indoor use. The requirements of the sectional specification IEC 60794-2 are applicable to cables covered by this document. Annex B contains a blank detail specification and general guidance in case the cables are intended to be used in installations governed by the MICE table of ISO/IEC 11801-1.

#### 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 60793-1-46, *Optical fibres – Part 1-46: Measurement methods and test procedures – Monitoring of changes in optical transmittance*

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 60794-1-1:2023, *Optical fibre cables – Part 1-1: Generic specification – General*

IEC 60794-1-2:2021, *Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures – General guidance*

IEC 60794-1-21:2015, *Optical fibre cables – Part 1-21: Generic specification – Basic optical cable test procedures – Mechanical test methods*

IEC 60794-1-21:2015/AMD1:2020

IEC 60794-1-22:2017, *Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental test methods*

IEC 60794-1-23:2019, *Optical fibre cables – Part 1-23: Generic specification – Basic optical cable test procedures – Cable element test methods*

IEC 60794-1-31, *Optical fibre cables – Part 1-31: Generic specification – Optical cable elements – Optical fibre ribbon*

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

IEC 60811-202, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 202: General tests – Measurement of thickness of non-metallic sheath*

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

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60794-1-1 apply.

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

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

### 4 Construction

#### 4.1 General

In addition to the constructional requirements in IEC 60794-2, the following considerations apply to multi-fibre indoor cables.

The cable shall be designed and manufactured for an expected operating lifetime of at least 15 years. In this context, the attenuation at the operational wavelength(s) of the optical fibres contained in the installed cable shall not exceed values specified in 5.5. The materials in the cable shall not present a health or environmental hazard within its intended use.

Optical elements may comprise any of the cable elements described in 4.3 to 4.8 or in IEC 60794-1-3.

There shall be no fibre splice in a delivery length unless otherwise agreed by customer and supplier.

It shall be possible to identify each individual fibre throughout the length of the cable.

#### 4.2 Optical fibres

Multimode or single-mode optical fibres meeting the requirements of IEC 60793-2-10 sub-categories A1-OM1 to A1-OM5 or IEC 60793-2-50 categories B-652 and B-657 shall be used. The linear coefficient of optical fibre attenuation and attenuation point discontinuity may be affected by the cable manufacturing process. Maximum values for these optical characteristics shall be as specified in 5.5.