

STN	Optické káble Časť 1-1: Kmeňová špecifikácia Všeobecne	STN EN IEC 60794-1-1 35 9223
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Optical fibre cables - Part 1-1: Generic specification - General

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. 09/23

Obsahuje: EN IEC 60794-1-1:2023, IEC 60794-1-1:2023

Oznámením tejto normy sa od 26.06.2026 ruší
STN EN 60794-1-1 (35 9223) zo septembra 2016

137426

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60794-1-1

July 2023

ICS 33.180.10

Supersedes EN 60794-1-1:2016

English Version

**Optical fibre cables - Part 1-1: Generic specification - General
(IEC 60794-1-1:2023)**

Câbles à fibres optiques - Partie 1-1: Spécification
générique - Généralités
(IEC 60794-1-1:2023)

Lichtwellenleiterkabel - Teil 1-1: Fachgrundspezifikation -
Allgemeines
(IEC 60794-1-1:2023)

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EN IEC 60794-1-1:2023 (E)**European foreword**

The text of document 86A/2286/FDIS, future edition 5 of IEC 60794-1-1, 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 60794-1-1:2023.

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) 2024-03-26
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-06-26

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The text of the International Standard IEC 60794-1-1:2023 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 60793-2-50	NOTE Approved as EN IEC 60793-2-50
IEC 60794-1-1	NOTE Approved as EN 60794-1-1
IEC 60794-1-2	NOTE Approved as EN IEC 60794-1-2
IEC 60794-1-3	NOTE Approved as EN 60794-1-3
IEC 60794-1-23	NOTE Approved as EN IEC 60794-1-23
IEC 60794-1-24	NOTE Approved as EN 60794-1-24
IEC 60794-1-401	NOTE Approved as EN IEC 60794-1-401
IEC 60794-1-402	NOTE Approved as EN IEC 60794-1-402
IEC 60794-2 (series)	NOTE Approved as EN IEC 60794-2 (series)
IEC 60794-2-10	NOTE Approved as EN IEC 60794-2-10
IEC 60794-2-11	NOTE Approved as EN IEC 60794-2-11
IEC 60794-2-20	NOTE Approved as EN 60794-2-20
IEC 60794-2-21	NOTE Approved as EN IEC 60794-2-21

EN IEC 60794-1-1:2023 (E)

IEC 60794-2-22	NOTE Approved as EN IEC 60794-2-22
IEC 60794-2-30	NOTE Approved as EN IEC 60794-2-30
IEC 60794-2-31	NOTE Approved as EN IEC 60794-2-31
IEC 60794-2-40	NOTE Approved as EN 60794-2-40
IEC 60794-2-41	NOTE Approved as EN 60794-2-41
IEC 60794-2-42	NOTE Approved as EN 60794-2-42
IEC 60794-2-50	NOTE Approved as EN IEC 60794-2-50
IEC 60794-3 (series)	NOTE Approved as EN IEC 60794-3 (series)
IEC 60794-3-10	NOTE Approved as EN 60794-3-10
IEC 60794-3-11	NOTE Approved as EN 60794-3-11
IEC 60794-3-12	NOTE Approved as EN IEC 60794-3-12
IEC 60794-3-20	NOTE Approved as EN 60794-3-20
IEC 60794-3-21	NOTE Approved as EN 60794-3-21
IEC 60794-3-30	NOTE Approved as EN 60794-3-30
IEC 60794-3-40	NOTE Approved as EN IEC 60794-3-40
IEC 60794-3-70	NOTE Approved as EN IEC 60794-3-70
IEC 60794-4 (series)	NOTE Approved as EN IEC 60794-4 (series)
IEC 60794-4-10	NOTE Approved as EN 60794-4-10
IEC 60794-4-20:2018	NOTE Approved as EN IEC 60794-4-20:2018 (not modified)
IEC 60794-4-30	NOTE Approved as EN IEC 60794-4-30
IEC 60794-5 (series)	NOTE Approved as EN 60794-5 (series)
IEC 60794-5-10	NOTE Approved as EN 60794-5-10
IEC 60794-5-20	NOTE Approved as EN 60794-5-20
IEC 60794-6 (series)	NOTE Approved as EN IEC 60794-6 (series)
IEC 60794-6-10	NOTE Approved as EN IEC 60794-6-10
IEC 60794-6-20	NOTE Approved as EN IEC 60794-6-20
IEC 60794-6-30	NOTE Approved as EN IEC 60794-6-30
IEC 61753-1	NOTE Approved as EN IEC 61753-1
ISO 14001	NOTE Approved as EN ISO 14001
ISO 14064-1	NOTE Approved as EN ISO 14064-1

EN IEC 60794-1-1:2023 (E)**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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60189-1	-	Low-frequency cables and wires with PVC insulation and PVC sheath - Part 1: General test and measuring methods	-	-
IEC 60304	-	Standard colours for insulation for low-frequency cables and wires	HD 402 S2	-
IEC 60793-1-21	-	Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry	EN 60793-1-21	-
IEC 60793-1-22	-	Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement	EN 60793-1-22	-
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 60793-1-46	-	Optical fibres - Part 1-46: Measurement methods and test procedures - Monitoring of changes in optical transmittance	EN 60793-1-46	-
IEC 60793-1-48	-	Optical fibres - Part 1-48: Measurement methods and test procedures - Polarization mode dispersion	EN 60793-1-48	-
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 60793-2-40	2021	Optical fibres - Part 2-40: Product specifications - Sectional specification for category A4 multimode fibres	EN IEC 60793-2-40	2021

EN IEC 60794-1-1:2023 (E)

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	-
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 60811-202	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 202: General tests - Measurement of thickness of non-metallic sheath	EN 60811-202	-
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 60794-1-1

Edition 5.0 2023-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

**Câbles à fibres optiques –
Partie 1-1: Spécification générique – Généralités**





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IEC 60794-1-1

Edition 5.0 2023-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

**Câbles à fibres optiques –
Partie 1-1: Spécification générique – Généralités**

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INTERNATIONALE

ICS 33.180.10

ISBN 978-2-8322-6709-7

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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	7
4 Graphical symbols and abbreviated terms	12
5 Optical fibre cables – IEC 60794 structure.....	13
5.1 General.....	13
5.2 IEC 60794-1 series	13
5.3 IEC 60794-2 series	14
5.4 IEC 60794-3 series	14
5.5 IEC 60794-4 series	15
5.6 IEC 60794-5 series	15
5.7 IEC 60794-6 series	15
5.8 IEC 60794-7 series	16
6 Cable materials	16
6.1 Indoor cable materials.....	16
6.2 Outdoor cable materials	16
6.3 Indoor/outdoor cable materials.....	17
6.4 Environmental requirements for cable materials.....	17
7 Cable construction.....	17
7.1 General.....	17
7.2 Colour coding	17
7.2.1 Overview	17
7.2.2 Fibre colour coding	18
7.2.3 Unit colour coding.....	18
7.2.4 Sheath colour coding	18
7.3 Fibre.....	18
7.3.1 General	18
7.3.2 Attenuation coefficient	18
7.3.3 Attenuation uniformity – Attenuation discontinuities	18
7.3.4 Cable cut-off wavelength	18
7.3.5 Polarization mode dispersion (PMD).....	19
7.4 Buffer tubes	19
7.5 Tensile strength elements	19
7.6 Crush protection elements	19
7.7 Water blocking elements.....	19
7.8 Sheath removal elements.....	19
7.9 Cable sheath	20
8 Measuring and test methods.....	20
8.1 General.....	20
8.2 Measuring methods for transmission and optical characteristics.....	20
8.3 Measuring methods for dimensions	20
8.4 Test methods for mechanical characteristics.....	21
8.5 Test methods for environmental characteristics.....	21
8.6 Test methods for cable element characterization	21
8.7 Measuring and test methods for electrical characteristics.....	21

Annex A (informative) Guidelines for specific optical fibre and cabled fibre performance	23
A.1 General.....	23
A.2 Cabled fibre attenuation requirements.....	23
A.3 Cabled fibre bandwidth requirements	24
A.4 Type testing at 1 625 nm.....	25
Annex B (informative) Guidelines for qualification sampling	26
B.1 General.....	26
B.2 Fibre selection for cable testing	26
B.3 Pass/fail criteria	27
Annex C (informative) Preferred temperatures	28
Bibliography.....	29
Table 1 – IEC 60794 structure	13
Table 2 – IEC 60794-1 series.....	14
Table 3 – IEC 60794-2 series.....	14
Table 4 – IEC 60794-3 series.....	15
Table 5 – IEC 60794-4 series.....	15
Table 6 – IEC 60794-5 series.....	15
Table 7 – IEC 60794-6 series.....	16
Table 8 – Indoor cables materials (examples).....	16
Table 9 – Outdoor cable materials (examples)	17
Table 10 – Measuring methods for transmission and optical characteristics	20
Table 11 – Measuring methods for dimensions	21
Table 12 – Measuring methods for electrical characteristics.....	22
Table A.1 – Maximum single-mode cabled fibre attenuation coefficient (dB/km), as given by ITU-T	23
Table A.2 – Category A1- multimode fibre maximum cable attenuation coefficient (dB/km).....	24
Table A.3 – Single-mode maximum cable attenuation coefficient (dB/km)	24
Table A.4 – Category A1 multimode cabled fibre bandwidth (MHz·km).....	25
Table A.5 – Guidance values for 1 625 nm type test acceptance criteria	25
Table B.1 – Recommended minimum number of tested fibres in a cable	26
Table C.1 – Preferred low and high temperature	28

INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

Part 1-1: Generic specification – General

FOREWORD

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IEC 60794-1-1 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2015. This edition constitutes a technical revision.

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

- a) reorganization of the document to a more logical flow making it easier for the reader;
- b) expansion of the tables to include names and definitions of all documents in the IEC 60794-x series;
- c) expansion of the definitions, graphical symbols, terminology and abbreviations content, with the aim of making this document the default and reference for all others in the IEC 60794-x series;

- d) inclusion of updated, reorganized and expanded optical fibre, attenuation and bandwidth subclauses, with the aim of making this document the default and reference for all others in the IEC 60794-x series.

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

Draft	Report on voting
86A/2286/FDIS	86A/2313/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 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 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 1-1: Generic specification – General

1 Scope

This part of IEC 60794 applies to optical fibre cables for use with communication equipment and devices employing similar techniques. Electrical properties are specified for optical ground wire (OPGW) and optical phase conductor (OPPC) cables. Hybrid communication cables are specified in the IEC 62807 series.

The object of this document is to establish uniform generic requirements for the geometrical, transmission, material, mechanical, ageing (environmental exposure), climatic and electrical properties of optical fibre cables and cable elements, where appropriate.

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 60189-1, *Low-frequency cables and wires with PVC insulation and PVC sheath – Part 1: General test and measuring methods*

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

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 60793-1-40, *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 60793-1-48, *Optical fibres – Part 1-48: Measurement methods and test procedures – Polarization mode dispersion*

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 60793-2-40:2021, *Optical fibres – Part 2-40: Product specifications – Sectional specification for category A4 multimode fibres*

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– 7 –

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

IEC 60794-1-22¹, *Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental tests methods*

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

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*

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