SLOVENSKI STANDARD
SIST EN IEC 60794-2-31:2019/A1:2021

01-marec-2021

Optični kabli - 2-31. del: Notranji optični kabli - Podrobna specifikacija za optične tračne kable za okablenje prostorov - Dopolnilo A1 (IEC 60794-2-31:2019/A1:2020)

Optical fibre cables - Part 2-31: Indoor cables - Detailed specification for optical fibre ribbon cables for use in premises cabling (IEC 60794-2-31:2019/A1:2020)

Lichtwellenleiterkabel - Teil 2-31: LWL-Innenkabel - Bauartspezifikation für LWL-Bandkabel für anwendungsneutrale Standortverkabelung (IEC 60794-2-31:2019/A1:2020)

Câbles à fibres optiques - Partie 2-31: Câbles intérieurs - Spécification particulière pour les câbles à fibres optiques en ruban utilisés dans le câblage de locaux (IEC 60794-2-31:2019/A1:2020)

Ta slovenski standard je istoveten z: **EN IEC 60794-2-31:2019/A1:2021**

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33.180.10 (Optična) vlakna in kabli Fibres and cables

SIST EN IEC 60794-2-31:2019/A1:2021 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 60794-2-31:2019/A1

January 2021

ICS 33.180.10

English Version

Optical fibre cables - Part 2-31: Indoor cables - Detailed specification for optical fibre ribbon cables for use in premises cabling (IEC 60794-2-31:2019/A1:2020)

Câbles à fibres optiques - Partie 2-31: Câbles intérieurs - Spécification particulière pour les câbles à fibres optiques en ruban utilisés dans le câblage de locaux (IEC 60794-2-31:2019/A1:2020)

Lichtwellenleiterkabel - Teil 2-31: LWL-Innenkabel - Bauartspezifikation für LWL-Bandkabel für anwendungsneutrale Standortverkabelung (IEC 60794-2-31:2019/A1:2020)

This amendment A1 modifies the European Standard EN IEC 60794-2-31:2019; it was approved by CENELEC on 2020-12-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment 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.

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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/2013/CDV, future IEC 60794-2-31/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 60794-2-31:2019/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

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 60794-2-31:2019/A1:2020 was approved by CENELEC as a European Standard without any modification.

IEC 60794-2-31

Edition 3.0 2020-11

INTERNATIONAL STANDARD

AMENDMENT 1

Optical fibre cables –
Part 2-31: Indoor cables – Detailed specification for optical fibre ribbon cables for use in premises cabling

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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OPTICAL FIBRE CABLES –

Part 2-31: Indoor cables – Detailed specification for optical fibre ribbon cables for use in premises cabling

AMENDMENT 1

FOREWORD

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This amendment has been prepared by subcommittee SC 86A: Fibres and cables, of IEC technical committee TC 86: Fibre optics.

The text of this amendment is based on the following documents:

Draft	Report on voting
86A/2013/CDV	86A/2056/RVC

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 Amendment 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/standardsdev/publications/.

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.

INTRODUCTION to Amendment

This amendment adds an important update considered during development of the base publication, IEC 60794-2-31:2019.

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 60794-2-31:2019.

It is expected that the content of this amendment will be incorporated into the future edition 4 of IEC 60794-2-31.

Table 3 – Minimum multimode fibre bandwidth (MHz·km)

Replace the existing table with the following new table:

Fibre	**Nominal core diameter** (µm)	**Overfilled launch bandwidth at 850 nm**	**Overfilled launch bandwidth at 953 nm**	**Overfilled launch bandwidth at 1 300 nm**	**Effective modal bandwidth at 850 nm**	**Effective modal bandwidth at 953 nm**	**Performance codes**
IEC 60793-2-10, A1-OM3	50	1 500	Not specified	500	2 000	Not specified	OM3
IEC 60793-2-10, A1-OM4	50	3 500	Not specified	500	4 700	Not specified	OM4
IEC 60793-2-10, A1-OM5	50	3 500	1 850	500	4 700	2 470	OM5

NOTE Effective modal bandwidth guidance is provided at all wavelengths in the 840 nm to 953 nm range in IEC 60793-2-10. For OM3, the guidance is 1 033 MHz·km at 953 nm. For OM4, the guidance is 1 459 MHz·km at 953 nm.