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

IEC 60794-2-31:2019-04/AMD1:2020-11(en)

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OPTICAL FIBRE CABLES –

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AMENDMENT 1

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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/.

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- 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- withdrawn,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 1 038 MHz·km at 953 nm. For OM4, the guidance is 1 459 MHz·km at 953 nm.

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