

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**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**



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Withhold

INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

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

FOREWORD

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International Standard IEC 60794-2-31 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2005. It constitutes a technical revision.

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

- incorporation of the OM4 cabled fibre performance category;
- incorporation of the OS2 cabled fibre performance category;
- incorporation of the B6_a1 and B6_a2 fibre categories as per IEC 60793-2-50.

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

FDIS	Report on voting
86A/1468/FDIS	86A/1484/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the 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 publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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OPTICAL FIBRE CABLES –

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

1 Scope

This part of the IEC 60794 series presents the detailed requirements specific to indoor optical fibre ribbon cables to ensure compatibility with ISO/IEC 11801. The requirements of the family specification IEC 60794-2-30 are applicable to cables covered by this standard.

The particular requirements detailed in Clause 4 either define a specific option relative to the requirements of IEC 60794-2-30 or define additional requirements.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE They complete the normative references already listed in the generic specification (IEC 60794-1-1[1]¹ and IEC 60794-1-2) and in the sectional specification (IEC 60794-2 [2]) or in the family specification (IEC 60794-2-30).

IEC 60793-2-10:2011, *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres*

IEC 60793-2-50:2008, *Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres*

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

IEC 60794-2-30:2008, *Optical fibre cables – Part 2-30: Indoor cables – Family specification for ribbon cables*

ISO/IEC 11801, *Information technology – Generic cabling for customers premises*

3 General requirements

The cable shall comply with the family specification (IEC 60794-2-30) and meet the requirements that are defined in it.

The optical fibre contained in the cables which are covered by this standard shall comply with one of the following standards and meet the normative requirements defined within them as applicable:

- IEC 60793-2-50:2008, Annex A (Single-mode B1.1 fibre)

¹ Numbers in square brackets refer to the Bibliography