



NSAI
Standards

Irish Standard
I.S. EN 60794-2-31:2013

Optical fibre cables -- Part 2-31: Indoor cables - Detailed specification for optical fibre ribbon cables for use in premises cabling (IEC 60794-2-31:2012 (EQV))

I.S. EN 60794-2-31:2013

Incorporating amendments/corrigenda issued since publication:

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i> EN 60794-2-31:2006	<i>This document is based on:</i> EN 60794-2-31:2013 EN 60794-2-31:2006	<i>Published:</i> 25 January, 2013 20 January, 2006
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English version

**Optical fibre cables -
Part 2-31: Indoor cables -
Detailed specification for optical fibre ribbon cables for use in premises
cabling
(IEC 60794-2-31:2012)**

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
(CEI 60794-2-31:2012)

Lichtwellenleiterkabel -
Teil 2-31: LWL-Innenkabel -
Bauartspezifikation für LWL-Bandkabel
zur Innenverlegung für
anwendungsneutrale Standortverkabelung
(IEC 60794-2-31:2012)

This European Standard was approved by CENELEC on 2012-12-12. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 European Standard 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 86A/1468/FDIS, future edition 2 of IEC 60794-2-31, 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 60794-2-31:2013.

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) 2013-09-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-12-12

This document supersedes EN 60794-2-31:2006.

EN 60794-2-31:2013 includes the following significant technical changes with respect to EN 60794-2-31:2006:

- 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 EN 60793-2-50.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 60794-2-31:2012 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 standards indicated:

- | | | |
|---------------|------|-----------------------------|
| IEC 60794-1-1 | NOTE | Harmonized as EN 60794-1-1. |
| IEC 60794-2 | NOTE | Harmonized as EN 60794-2. |

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

To be used together with the Annexes ZA of EN 60794-1-1, EN 60794-1-2, EN 60794-2 and EN 60794-2-30.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-2-10	2011	Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN 60793-2-10	2011
IEC 60793-2-50	2008	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	2008
IEC 60794-1-2	-	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures	EN 60794-1-2	-
IEC 60794-2-30	2008	Optical fibre cables - Part 2-30: Indoor cables - Family specification for ribbon cables	EN 60794-2-30	2008
ISO/IEC 11801	-	Information technology - Generic cabling for customer premises	-	-

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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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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

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