

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)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 60794-2-31:2013 sisaldab Euroopa standardi EN 60794-2-31:2013 ingliskeelset teksti.	This Estonian standard EVS-EN 60794-2-31:2013 consists of the English text of the European standard EN 60794-2-31:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 25.01.2013.	Date of Availability of the European standard is 25.01.2013.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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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.

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CENELEC

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

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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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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