

**Optical fibre cables - Part 2-21: Indoor optical fibre
cables - Detailed specification for multi-fibre optical
distribution cables for use in premises cabling**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 60794-2-21:2012 sisaldab Euroopa standardi EN 60794-2-21:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 60794-2-21:2012 consists of the English text of the European standard EN 60794-2-21:2012.
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.
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ICS 33.180.10

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English version

**Optical fibre cables -
Part 2-21: Indoor optical fibre cables -
Detailed specification for multi-fibre optical distribution
cables for use in premises cabling
(IEC 60794-2-21:2012)**

Câbles à fibres optiques -
Partie 2-21: Câbles à fibres optiques
intérieurs -
Spécification particulière pour les câbles
optiques multi-fibres de distribution utilisés
dans le câblage de locaux
(CEI 60794-2-21:2012)

Lichtwellenleiterkabel -
Teil 2-21: LWL-Innenkabel -
Bauartspezifikation für
Mehrfaserverteilerkabel zur
Innenverlegung für anwendungsneutrale
Standortverkabelung
(IEC 60794-2-21:2012)

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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/1441/FDIS, future edition 2 of IEC 60794-2-21, 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 60794-2-21:2012.

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) 2013-03-19
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-06-19

This document supersedes EN 60794-2-21:2006.

EN 60794-2-21:2012 includes the following significant technical changes with respect to EN 60794-2-21:2006:

- 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 category as per EN 60793-2-50:2008.

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 60794-2-21:2012 was approved by CENELEC as a European Standard without any modification.

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-2-10	2007	Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN 60793-2-10 ¹⁾	2007
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 60794-1-1 + corr. January	2011 2012	Optical fibre cables - Part 1-1: Generic specification - General	EN 60794-1-1	2011
IEC 60794-1-2	2003	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures	EN 60794-1-2	2003
IEC 60794-2	2002	Optical fibre cables - Part 2: Indoor cables - Sectional specification	EN 60794-2	2003
IEC 60794-2-20	2008	Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical distribution cables	EN 60794-2-20	2010

¹⁾ EN 60793-2-10 is superseded by EN 60793-2-10:2011, which is based on IEC 60793-2-10:2011.

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OPTICAL FIBRE CABLES –

Part 2-21: Indoor optical fibre cables – Detailed specification for multi-fibre optical distribution cables for use in premises cabling

1 Scope

This International Standard presents the detailed requirements specific to this type of cable to ensure compatibility with ISO/IEC 11801, *Information technology – Generic cabling for customer premises*. The requirements of the Family Specification IEC 60794-2-20:2008 are applicable to cables covered by this standard.

Particular requirements detailed in clause 4 either define a specific option relative to the requirements of IEC 60794-2-20:2008 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.

They complete the normative references already listed in the generic specification (IEC 60794-1-1:2011 and IEC 60794-1-2:2003,) and in the sectional specification (IEC 60794-2:2002, Clause 2) or in the family specification (IEC 60794-2-20:2011, Clause 2).

IEC 60793-2-10:2007, *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 60794-1-1:2011, *Optical Fibre cables – Part 1-1: Generic specification – General*

IEC 60794-1-2:2003, *Optical fibre cables – Part 1-2: Generic specification – Basic optical cable test procedures*

IEC 60794-2:2002, *Optical fibre cables – Part 2: Indoor cables – Sectional specification*

IEC 60794-2-20:2008, *Optical fibre cables – Part 2-20: Indoor cables – Family specification for multi-fibre optical distribution cable*

3 General requirements

The cable shall comply with the family specification (IEC 60794-2-20:2008) 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: