



SLOVENSKI STANDARD SIST EN 60794-2-20:2014

01-september-2014

Optični kabli - 2-20. del: Optični kabli za notranjo uporabo - Rodovna specifikacija za distribucijske kable z več optičnimi vlakni

Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables

Lichtwellenleiterkabel - Teil 2-20: LWL-Innenkabel - Familienspezifikation für Mehrfaser-Lichtwellenleiterkabel

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Optical fibre cables -- Part 2-20: Indoor cables - Family specification for multi-fibre optical cables

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ICS:

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EUROPEAN STANDARD

EN 60794-2-20

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2014

ICS 33.180.01

Supersedes EN 60794-2-20:2010

English Version

**Optical fibre cables - Part 2-20: Indoor cables - Family
specification for multi-fibre optical cables
(IEC 60794-2-20:2013)**

Optical fibre cables - Part 2-20: Indoor cables - Family
specification for multi-fibre optical cables
(CEI 60794-2-20:2013)

Lichtwellenleiterkabel - Teil 2-20: LWL-Innenkabel -
Familienspezifikation für Mehrfaser-Lichtwellenleiterkabel
(IEC 60794-2-20:2013)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of document 86A/1513/FDIS, future edition 3 of IEC 60794-2-20, 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 60794-2-20:2014.

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) 2014-11-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-12-10

This document supersedes EN 60794-2-20:2010.

EN 60794-2-20:2014 includes the following significant technical changes with respect to EN 60794-2-20:2010:

- removal of Annex C;
- reference to the most recent fibre standards;
- reference to the new series EN 60794-1-2X.

This standard is to be used in conjunction with IEC 60794-1-1, IEC 60794-1-2 and IEC 60794-2.

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Endorsement notice

The text of the International Standard IEC 60794-2-20:2013 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 60654 (Series) | NOTE | Harmonized as EN 60654 (Series) (not modified). |
| IEC 60721-1 | NOTE | Harmonized as EN 60721-1 (not modified). |
| IEC 60721-3-3 | NOTE | Harmonized as EN 60721-3-3 (not modified). |
| IEC 61000-6-2 | NOTE | Harmonized as EN 61000-6-2 (not modified). |
| IEC 61326 (Series) | NOTE | Harmonized as EN 61326 (Series) (not modified). |
| IEC 61918 | NOTE | Harmonized as EN 61918 (modified). |

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 and EN 60794-1-2.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|-----------------------------------|-------------|--|------------------|-------------|
| IEC 60189-1 | | Low-frequency cables and wires with PVC insulation and PVC sheath - Part 1: General test and measuring methods | - | - |
| IEC 60304 | | Standard colours for insulation for low-frequency cables and wires | HD 402 S2 | |
| IEC 60793-1-20 | | Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry | EN 60793-1-20 | |
| IEC 60793-1-21 | | Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry | EN 60793-1-21 | |
| IEC 60793-2-10 | | Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres | EN 60793-2-10 | |
| IEC 60793-2-50 + corr. January | | Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres | EN 60793-2-50 | |
| IEC 60794-1-1 + corr. January | | Optical fibre cables - Part 1-1: Generic specification - General | EN 60794-1-1 | |
| IEC 60794-1-2 | | Optical fibre cables - Part 1-2: Generic specification - Cross reference table for optical cable test procedures | EN 60794-1-2 | |
| IEC 60794-1-20 | | Optical fibre cables - Part 1-20: Generic specification - Basic optical cable test procedures - General and Definitions | FprEN 60794-1-20 | |
| IEC 60794-1-22 | | Optical fibre cables - Part 1-22: Generic specification - Basic optical cable test procedures - Environmental test methods | EN 60794-1-22 | |
| IEC 60794-1-23 | | Optical fibre cables - Part 1-23: Generic specification - Basic optical cable test procedures - Cable element test methods | EN 60794-1-23 | |
| IEC 60794-2 | 2002 | Optical fibre cables - Part 2: Indoor cables - Sectional specification | EN 60794-2 | 2003 |
| IEC 60794-3 | 2001 | Optical fibre cables - Part 3: Sectional specification - Outdoor cables | EN 60794-3 | 2002 |

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| IEC 60811-202 | Electric and optical fibre cables - Test methods for non-metallic materials - Part 202: General tests - Measurement of thickness of non-metallic sheath | EN 60811-202 |
| IEC 60811-203 | Electric and optical fibre cables - Test methods for non-metallic materials - Part 203: General tests - Measurement of overall dimensions | EN 60811-203 |
| IEC 60811-504 | Electric and optical fibre cables - Test methods for non-metallic materials - Part 504: Mechanical tests - Bending tests at low temperature for insulation and sheaths | EN 60811-504 |
| IEC/TR 62222 | Fire performance of communication cables installed in buildings | - - |

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Edition 3.0 2013-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Optical fibre cables –
Part 2-20: Indoor cables – Family specification for multi-fibre optical cables

Câbles à fibres optiques –
Partie 2-20: Câbles intérieurs – Spécification de famille pour les câbles optiques multifibres

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 2-20: Indoor cables –
Family specification for multi-fibre optical cables**

FOREWORD

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International Standard IEC 60794-2-20 has been prepared by sub-committee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

This third edition cancels and replaces the second edition published in 2008 and constitutes a technical revision.

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

- removal of Annex C;
- reference to the most recent fibre standards;
- reference to the new series IEC 60794-1-2X.

This standard is to be used in conjunction with IEC 60794-1-1, IEC 60794-1-2 and IEC 60794-2.

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

| | |
|---------------|------------------|
| FDIS | Report on voting |
| 86A/1513/FDIS | 86A/1549/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 parts of 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

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- withdrawn,
- replaced by a revised edition, or
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