
Optični kabli - 6-20. del: Notranji ali zunanji kabli - Skupinska specifikacija za zunanje kable, ki zavirajo gorenje (IEC 60794-6-20:2020)

Optical fibre cables - Part 6-20: Indoor-outdoor cables - Family specification for flame retardant outdoor cables (IEC 60794-6-20:2020)

Lichtwellenleiterkabel Teil 6-20: Innen-/Außenkabel - Familienspezifikation für flammhemmende Außenkabel (IEC 60794-6-20:2020)

Câbles à fibres optiques - Partie 6-20: Câbles intérieurs/extérieurs - Spécification de famille pour les câbles extérieurs retardateurs de flamme (IEC 60794-6-20:2020)

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Ta slovenski standard je istoveten z: EN IEC 60794-6-20:2020

ICS:

33.180.10 (Optična) vlakna in kabli Fibres and cables

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EUROPEAN STANDARD

EN IEC 60794-6-20

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2020

ICS 33.180.10

English Version

Optical fibre cables - Part 6-20: Indoor-outdoor cables - Family
specification for flame retardant outdoor cables
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Familienspezifikation für flammhemmende Außenkabel
(IEC 60794-6-20:2020)

This European Standard was approved by CENELEC on 2020-11-03. 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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60794-6-20:2020 (E)**European foreword**

The text of document 86A/2037/FDIS, future edition 1 of IEC 60794-6-20, 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 IEC 60794-6-20:2020.

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) 2021-08-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-11-03

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The text of the International Standard IEC 60794-6-20:2020 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:

SIST EN IEC 60794-6-20:2021

IEC 60794-1-2 NOTE Harmonized as EN 60794-1-2
<https://standards.itec.org/catalog/standards/sist-en-iec-60794-6-20-2021>
 46c00457cfbe/sist-en-iec-60794-6-20-2021

IEC 60794-1-219 NOTE Harmonized as EN IEC 60794-1-219¹

¹ To be published. Stage at the time of publication: prEN IEC 60794-1-219:2020.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|-------------------|-------------|
| IEC 60332-1 | series | Tests on electric and optical fibre cables under fire conditions - Part 1: Test for vertical flame propagation for a single insulated wire or cable | EN 60332-1 | series |
| IEC 60332-3 | series | Tests on electric and optical fibre cables under fire conditions - Part 3: Test for vertical flame spread of vertically-mounted bunched wires or cables | EN IEC 60332-3 | series |
| IEC 60754-2 | - | Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity | EN 60754-2 | - |
| IEC 60793-2-10 | 2019 | Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres | EN IEC 60793-2-10 | 2019 |
| IEC 60793-2-50 | 2018 | Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres | EN IEC 60793-2-50 | 2019 |
| IEC 60794-1-1 | - | Optical fibre cables - Part 1-1: Generic specification - General | EN 60794-1-1 | - |
| IEC 60794-1-21 | - | Optical fibre cables - Part 1-21: Generic specification - Basic optical cable test procedures - Mechanical tests methods | EN 60794-1-21 | - |
| IEC 60794-1-22 | 2017 | Optical fibre cables - Part 1-22: Generic specification - Basic optical cable test procedures - Environmental test methods | EN IEC 60794-1-22 | 2018 |

EN IEC 60794-6-20:2020 (E)

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|--------------------|-------------|
| IEC 60794-1-23 | - | Optical fibre cables - Part 1-23: Generic specification - Basic optical cable test procedures - Cable element test methods | EN IEC 60794-1-23 | - |
| IEC 60794-1-24 | - | Optical fibre cables - Part 1-24: Generic specification - Basic optical cable test procedures - Electrical test methods | EN 60794-1-24 | - |
| IEC 60794-1-31 | 2018 | Optical fibre cables - Part 1-31: Generic specification - Optical cable elements - Optical fibre ribbon | EN IEC 60794-1-31 | 2018 |
| IEC 60794-1-215 | - | Optical fibre cables - Part 1-215: Generic specification - Basic optical cable test procedures - Environmental test methods - Cable external freezing test, Method F15 | EN IEC 60794-1-215 | - |
| IEC 60794-3 | 2014 | Optical fibre cables - Part 3: Outdoor cables - Sectional specification | EN 60794-3 | 2015 |
| IEC 60794-3-10 | 2015 | Optical fibre cables - Part 3-10: Outdoor cables - Family specification for duct, directly buried and lashed aerial optical telecommunication cables | EN 60794-3-10 | 2015 |
| IEC 60794-4 | 2018 | Optical fibre cables - Part 4: Sectional specification - Aerial optical cables along electrical power lines | EN IEC 60794-4 | 2018 |
| IEC 60794-5 | 2014 | Optical fibre cables - Part 5: Sectional specification - Microduct cabling for installation by blowing | EN 60794-5 | 2016 |
| 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 60811-406 | - | Electric and optical fibre cables - Test methods for non-metallic materials - Part 406: Miscellaneous tests - Resistance to stress cracking of polyethylene and polypropylene compounds | EN 60811-406 | - |
| IEC 61034 | series | Measurement of smoke density of cables burning under defined conditions | EN 61034 | series |
| ISO 4892-2 | 2013 | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps | EN ISO 4892-2 | 2013 |



IEC 60794-6-20

Edition 1.0 2020-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Optical fibre cables –
Part 6-20: Indoor-outdoor cables – Family specification for flame retardant outdoor cables

Câbles à fibres optiques –
Partie 6-20: Câbles intérieurs/extérieurs – Specification de famille pour les câbles extérieurs retardateurs de flamme

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ICS 33.180.10

ISBN 978-2-8322-8908-2

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 6-20: Indoor-outdoor cables –
Family specification for flame retardant outdoor cables**

FOREWORD

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International Standard IEC 60794-6-20 has been prepared by subcommittee SC 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

The text of this International Standard is based on the following documents:

| | |
|---------------|------------------|
| FDIS | Report on voting |
| 86A/2037/FDIS | 86A/2051/RVD |

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

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

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

- reconfirmed,
- withdrawn,
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