SLOVENSKI STANDARD
SIST EN IEC 60794-3-70:2021

01-julij-2021

Nadomešča:

SIST EN 60794-3-70:2016

Optični kabli - 3-70. del: Zunanji kabli - Skupinska specifikacija za kable iz optičnih vlaken za zunanjo montažo za hitro/večkratno namestitev (IEC 60794-3-70:2021)

Optical fibre cables - Part 3-70: Outdoor cables - Family specification for outdoor optical fibre cables for rapid/multiple deployment (IEC 60794-3-70:2021)

Lichtwellenleiter - Teil 3-70: Außenkabel - Familienspezifikation für Lichtwellenleiter-Außenkabel für schnelle/mehrfache Verlegung (IEC 60794-3-70:2021)

Câbles à fibres optiques - Partie 3-70: Câbles extérieurs - Spécification de famille pour câbles à fibres optiques extérieurs pour déploiement rapide/multiple (IEC 60794-3-70:2021)

Ta slovenski standard je istoveten z: **EN IEC 60794-3-70:2021**

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33.180.10	(Optična) vlakna in kabli	Fibres and cables

SIST EN IEC 60794-3-70:2021 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 60794-3-70

May 2021

ICS 33.180.01; 33.180.10

Supersedes EN 60794-3-70:2016 and all of its amendments and corrigenda (if any)

English Version

Optical fibre cables - Part 3-70: Outdoor cables - Family specification for outdoor optical fibre cables for rapid/multiple deployment (IEC 60794-3-70:2021)

Câbles à fibres optiques - Partie 3-70: Câbles extérieurs - Spécification de famille pour câbles à fibres optiques extérieurs pour déploiement rapide/multiple (IEC 60794-3-70:2021)

Lichtwellenleiter - Teil 3-70: Außenkabel - Familienspezifikation für Lichtwellenleiter-Außenkabel für schnelle/mehrfache Verlegung (IEC 60794-3-70:2021)

This European Standard was approved by CENELEC on 2021-05-12. 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.

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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

European foreword

The text of document 86A/2086/FDIS, future edition 2 of IEC 60794-3-70, 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 60794-3-70:2021.

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) 2022-02-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-05-12

This document supersedes EN 60794-3-70:2016 and all of its amendments and corrigenda (if any).

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

Endorsement notice

The text of the International Standard IEC 60794-3-70:2021 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 60793-1-40 NOTE Harmonized as EN IEC 60793-1-40

IEC 60811-404 NOTE Harmonized as EN 60811-404

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.

Publication	Year	Title	EN/HD	Year
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 60794-1-2	-	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance	EN IEC 60794-1-2	-
IEC 60794-1-21	2015	Optical fibre cables - Part 1-21: Generic specification - Basic optical cable test procedures - Mechanical tests methods	EN 60794-1-21	2015
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
IEC 60794-1-23	2019	Optical fibre cables - Part 1-23: Generic specification - Basic optical cable test procedures - Cable element test methods	EN IEC 60794-1-23	2019
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	-	Optical fibre cables - Part 3: Outdoor cables - Sectional specification	EN 60794-3	-
ISO 4892-2	-	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps	EN ISO 4892-2	-

IEC 60794-3-70

Edition 2.0 2021-04

INTERNATIONAL STANDARD

Optical fibre cables – Part 3-70: Outdoor cables – Family specification for outdoor optical fibre cables for rapid/multiple deployment

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 33.180.01; 33.180.10

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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OPTICAL FIBRE CABLES –

Part 3-70: Outdoor cables – Family specification for outdoor optical fibre cables for rapid/multiple deployment

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 60794-3-70 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This second edition cancels and replaces the first edition published in 2016. It constitutes a technical revision.

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

a) incorporation of the new classification system for optical fibre categories, sub-categories in IEC 60793-2-10;
b) incorporation of the new classification system for optical fibre categories, sub-categories and models in IEC 60793-2-50;
c) updating of cabled fibre performance categories in alignment with ISO/IEC 11801-1;
d) updating of bibliographical references.

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

FDIS	Report on voting
86A/2086/FDIS	86A/2091/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

This International Standard is to be used in conjunction with IEC 60794-1-1, IEC 60794-1-2 and IEC 60794-3.

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 webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

OPTICAL FIBRE CABLES –

Part 3-70: Outdoor cables – Family specification for outdoor optical fibre cables for rapid/multiple deployment

1 Scope

This part of IEC 60794 is a family specification that covers outdoor optical fibre cables intended for rugged terrestrial rapid/multiple deployment. These cables, with enhanced mechanical, environmental and ingress performance can be used wherever a rapid or multiple deployment is relevant (e.g. mobile broadcast units, emergency rescue services, tactical ground-forces, outdoor motion-robotics, mining machinery, temporary repair cables for damaged links, etc.).

2 Normative references

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.

IEC 60793-2-10:2019, *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres*

IEC 60793-2-50:2019, *Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres*

IEC 60794-1-1, *Optical fibre cables – Part 1-1: Generic specification – General*

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

IEC 60794-1-21:2015, *Optical fibre cables – Part 1-21: Generic specification – Basic optical cable test procedures – Mechanical tests methods*
IEC 60794-1-21:2015/AMD1:2020

IEC 60794-1-22:2017, *Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental tests methods*

IEC 60794-1-23:2019, *Optical fibre cables – Part 1-23: Generic specification – Basic optical cable test procedures – Cable element test methods*

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*

IEC 60794-3, *Optical fibre cables – Part 3: Outdoor cables – Sectional specification*

ISO 4892-2, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps*

3 Terms and definitions

No terms and definitions are listed in this document.