



**SLOVENSKI STANDARD  
SIST EN IEC 60794-3:2022**

**01-junij-2022**

**Nadomešča:  
SIST EN 60794-3:2015**

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**Optični kabli - 3. del: Zunanji kabli - Področna specifikacija (IEC 60794-3:2022)**

Optical fibre cables - Part 3: Outdoor cables - Sectional specification (IEC 60794-3:2022)

Lichtwellenleiterkabel – Teil 3: LWL-Außenkabel - Rahmenspezifikation (IEC 60794-3:2022)

Câbles à fibres optiques - Partie 3: Câbles extérieurs - Spécification intermédiaire (IEC 60794-3:2022)

**Ta slovenski standard je istoveten z: EN IEC 60794-3:2022**

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33.180.10 (Optična) vlakna in kabli Fibres and cables

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60794-3**

April 2022

ICS 33.180.10

Supersedes EN 60794-3:2015 and all of its amendments  
and corrigenda (if any)

English Version

**Optical fibre cables - Part 3: Outdoor cables - Sectional  
specification  
(IEC 60794-3:2022)**

Câbles à fibres optiques - Partie 3: Câbles extérieurs -  
Spécification intermédiaire  
(IEC 60794-3:2022)

Lichtwellenleiterkabel - Teil 3: Rahmenspezifikation -  
Außenkabel  
(IEC 60794-3:2022)

This European Standard was approved by CENELEC on 2022-03-24. 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 60794-3:2022 (E)****European foreword**

The text of document 86A/2155/FDIS, future edition 5 of IEC 60794-3, 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 60794-3:2022.

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) 2022-12-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-03-24

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60794-1-2:2021 NOTE Harmonized as EN IEC 60794-1-2:2021 (not modified)

IEC 60794-1-24 NOTE Harmonized as EN 60794-1-24

IEC 60794-1-3 NOTE Harmonized as EN 60794-1-3

IEC 60794-1-31 NOTE Harmonized as EN IEC 60794-1-31

## 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60304	-	Standard colours for insulation for low-frequency cables and wires	HD 402 S2	-
IEC 60708	-	Low-frequency cables with polyolefin insulation and moisture barrier polyolefin sheath	EN 60708	-
IEC 60793-1-21	-	Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry	EN 60793-1-21	-
IEC 60793-1-32	-	Optical fibres - Part 1-32: Measurement methods and test procedures - Coating strippability	EN IEC 60793-1-32	-
IEC 60793-1-40	-	Optical fibres - Part 1-40: Attenuation measurement methods	EN IEC 60793-1-40	-
IEC 60793-1-44	-	Optical fibres - Part 1-44: Measurement methods and test procedures - Cut-off wavelength	EN 60793-1-44	-
IEC 60793-2	-	Optical fibres - Part 2: Product specifications - General	EN IEC 60793-2	-
IEC 60794-1-1	-	Optical fibre cables - Part 1-1: Generic specification - General	EN 60794-1-1	-
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	-	Optical fibre cables - Part 1-22: Generic specification - Basic optical cable test procedures - Environmental test methods	EN IEC 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 IEC 60794-1-23	-

## EN IEC 60794-3:2022 (E)

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 60811-401	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 401: Miscellaneous tests - Thermal ageing methods - Ageing in an air oven	EN 60811-401	-
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 60811-501	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds	EN 60811-501	-
IEC 60811-604	2012	Electric and optical fibre cables - Test methods for non-metallic materials - Part 604: Physical tests - Measurement of absence of corrosive components in filling compounds	EN 60811-604	2012
IEC 60811-607	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 607: Physical tests - Test for the assessment of carbon black dispersion in polyethylene and polypropylene	EN 60811-607	-

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Edition 5.0 2022-02

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**iTeh STANDARD****Optical fibre cables –****Part 3: Outdoor cables – Sectional specification****(standards.iteh.ai)****Câbles à fibres optiques –****Partie 3: Câbles extérieurs – Spécification intermédiaire****SIST EN IEC 60794-3:2022**

<https://standards.iteh.ai/catalog/standards/sist/fb980cc8-974b-47ea-aeb7-e75383f6a095/sist-en-iec-60794-3-2022>

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPTICAL FIBRE CABLES –

## Part 3: Outdoor cables – Sectional specification

## FOREWORD

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IEC 60794-3 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2014. This edition constitutes a technical revision.

This edition includes the following significant technical change with respect to the previous edition: the ribbon specification has been removed, because it is covered in IEC 60794-1-31.

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

Draft	Report on voting
86A/2155/FDIS	86A/2184/RVD

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

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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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

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](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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- replaced by a revised edition, or
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## INTRODUCTION

IEC 60794-1-21, IEC 60794-1-22, IEC 60794-1-23, and IEC 60794-1-24 have been (or will be) divided into multiple standards which defines one test method each. IEC 60794-1-2:2021 gives cross references between old standards and new standards.

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