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Standards

Irish Standard  
I.S. EN 60794-5:2016

# Optical fibre cables - Part 5: Sectional specification - Microduct cabling for installation by blowing

**I.S. EN 60794-5:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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*This document is based on:*

EN 60794-5:2016

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NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN 60794-5:2016 is the adopted Irish version of the European Document EN 60794-5:2016, Optical fibre cables - Part 5: Sectional specification - Microduct cabling for installation by blowing

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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EUROPEAN STANDARD

**EN 60794-5**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2016

ICS 33.180.10

Supersedes EN 60794-5:2007

English Version

**Optical fibre cables - Part 5: Sectional specification - Microduct  
cabling for installation by blowing  
(IEC 60794-5:2014)**

Câbles à fibres optiques - Partie 5: Spécification  
intermédiaire - Câblage en micro-conduits pour installation  
par soufflage  
(IEC 60794-5:2014)

Lichtwellenleiterkabel - Teil 5: Rahmenspezifikation -  
Mikrorohr-Verkabelung zur Installation durch Einblasen  
(IEC 60794-5:2014)

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

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

**EN 60794-5:2016**

**European foreword**

The text of document 86A/1588/CDV, future edition 2 of IEC 60794-5, 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 60794-5:2016.

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) 2017-06-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-12-09

This document supersedes EN 60794-5:2007.

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## 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 1 When 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-HD 402 S2 frequency cables and wires		-
IEC 60793-1-40	-	Optical fibres -- Part 1-40: Measurement methods and test procedures - Attenuation	EN 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 60793-2	-
IEC 60794-1-1	-	Optical fibre cables - Part 1-1: Generic specification - General	EN 60794-1-1	-
IEC 60794-3	-	Optical fibre cables - Part 3: Outdoor cables - Sectional specification	EN 60794-3	-

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**IEC 60794-5**

Edition 2.0 2014-10

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Optical fibre cables –  
Part 5: Sectional specification – Microduct cabling for installation by blowing**

**Câbles à fibres optiques –  
Partie 5: Spécification intermédiaire – Câblage en micro-conduits pour  
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# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Optical fibre cables –  
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**Câbles à fibres optiques –  
Partie 5: Spécification intermédiaire – Câblage en micro-conduits pour  
installation par soufflage**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### OPTICAL FIBRE CABLES –

#### **Part 5: Sectional specification – Microduct cabling for installation by blowing**

#### 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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International Standard IEC 60794-5 has been prepared by subcommittee 86A Fibres and cables, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition, published in 2006, and constitutes a technical revision.

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

- the addition of constructional requirements, including a reference to IEC 60794-3 for microduct optical fibre cables;
- the specification has been streamlined by cross-referencing IEC 60794-1-1.

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

CDV	Report on voting
86A/1588/CDV	86A/1620/RVC

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

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

## OPTICAL FIBRE CABLES –

### Part 5: Sectional specification – Microduct cabling for installation by blowing

#### 1 Scope

This part of IEC 60794, which is a sectional specification, specifies the requirements of microduct optical fibre cables, microduct fibre units, microducts and protected microducts for installation by blowing for outdoor and/or indoor use.

The microduct optical fibre cables and microduct fibre units utilize the structure of the microduct or protected microducts to support installation and to provide protection over the design lifetime.

These products may be used for applications such as communication and transmission networks, transmission, telephone and data processing equipment, control and monitoring applications.

The cabling structures described in this sectional specification are uniquely designed to facilitate and take advantage of installation by blowing into microducts.

IEC TR 62839-1 gives rules to build an environmental declaration, if needed.

#### 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.

IEC 60304, *Standard colours for insulation for low-frequency cables and wires*

IEC 60793-1-40, *Optical fibres – Part 1-40: Measurement methods and test procedures – Attenuation*

IEC 60793-1-44, *Optical fibres – Part 1-44: Measurement methods and test procedures – Cut-off wavelength*

IEC 60793-2, *Optical fibres – Part 2: Product specifications – General*

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

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

#### 3 Terms, definitions, symbols and abbreviations

For the purposes of this document, the terms, definitions, symbols and abbreviations are given in IEC 60794-1-1.

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