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Irish Standard
I.S. EN 60794-5-10:2014

Optical fibre cables -- Part 5–10: Family specification - Outdoor microduct optical fibre cables, microducts and protected microducts for installation by blowing

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NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60794-5-10

April 2014

ICS 33.180.01; 33.180.10

English version

Optical fibre cables - Part 5–10: Family specification - Outdoor microduct optical fibre cables, microducts and protected microducts for installation by blowing

(IEC 60794-5-10:2014)

Câbles à fibres optiques -
Partie 5–10: Spécification de famille -
Câbles extérieurs à fibres optiques en micro-conduit, micro-conduits et micro-conduits protégés pour installation par soufflage
(CEI 60794-5-10:2014)

Lichtwellenleiterkabel -
Teil 5-10: Familienspezifikation für Mikrorohr-Lichtwellenleiterkabel, Mikrorohre und geschützte Mikrorohre zur Installation durch Einblasen für die Anwendung im Freien
(IEC 60794-5-10:2014)

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Foreword

The text of document 86A/1496/CDV, future edition 1 of IEC 60794-5-10, 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 60794-5-10:2014.

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)	2014-12-12
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IEC 60794-1-21	NOTE	Harmonized as EN 60794-1-21.
IEC 60811-501	NOTE	Harmonized in EN 60811-501.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60304	-	Standard colours for insulation for low-frequency cables and wires	HD 402 S2	-
IEC 60793-1-40 (mod)	-	Optical fibres - Part 1-40: Measurement methods and test procedures - Attenuation	EN 60793-1-40	-
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	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	-
IEC 60794-1	-	Optical fibre cables - Part 1: Generic specification	-	-
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 - Cross reference table for optical cable test procedures	EN 60794-1-2	-
IEC 60794-1-22	2012	Optical fibre cables - Part 1-22: Generic specification - Basic optical cable test procedures - Environmental test methods	EN 60794-1-22	2012
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 60794-1-24	-	Optical fibre cables - Part 1-24: Generic specification - Basic optical cable test procedures - Electrical test methods	EN 60794-1-24	-
IEC 60794-2	-	Optical fibre cables - Part 2: Indoor cables - Sectional specification	EN 60794-2	-
IEC 60794-3	-	Optical fibre cables - Part 3: Sectional specification - Outdoor cables	EN 60794-3	
IEC 60794-4	-	Optical fibre cables - Part 4: Sectional specification - Aerial optical cables along electrical power lines	EN 60794-4	-
IEC 60794-5	-	Optical fibre cables - Part 5: Sectional specification - Microduct cabling for installation by blowing	EN 60794-5	-

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IEC 60794-5-20	-	Optical fibre cables - Part 5-20: Family specification for outdoor microduct fibre units, microducts and protected microducts for installation by blowing	EN 60794-5-20	-
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 60811-601	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 601: Physical tests - Measurement of the drop point of filling compounds	EN 60811-601	-
IEC 60811-602	-	Electric and optical fibre cables - Test methods for non-metallic materials - Part 602: Physical tests - Separation of oil in filling compounds	EN 60811-602	-
IEC 60811-604	-	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	-
ISO/IEC 11801	-	Information technology - Generic cabling for customer premises	EN ISO/IEC 11801	-

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Edition 1.0 2014-02

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Optical fibre cables –
Part 5–10: Family specification – Outdoor microduct optical fibre cables, microducts and protected microducts for installation by blowing

Câbles à fibres optiques –
Partie 5–10: Spécification de famille – Câbles extérieurs à fibres optiques en micro-conduit, micro-conduits et micro-conduits protégés pour installation par soufflage

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Part 5–10: Family specification – Outdoor microduct optical fibre cables, microducts and protected microducts for installation by blowing

Câbles à fibres optiques –
Partie 5–10: Spécification de famille – Câbles extérieurs à fibres optiques en micro-conduit, micro-conduits et micro-conduits protégés pour installation par soufflage

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OPTICAL FIBRE CABLES –

Part 5–10: Family specification – Outdoor microduct optical fibre cables, microducts and protected microducts for installation by blowing

FOREWORD

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International Standard IEC 60794-5-10 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

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

CDV	Report on voting
86A/1496/CDV	86A/1542/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.

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OPTICAL FIBRE CABLES –

Part 5-10: Family specification – Outdoor microduct optical fibre cables, microducts and protected microducts for installation by blowing

1 Scope

This part of IEC 60794 is a family specification that covers outdoor microduct optical fibre cables for installation by blowing and the associated microducts, which together make up a microduct optical fibre cable system. Although primarily designed for use with outdoor microduct applications, the cable products specified herein may be used individually for short lengths in other applications as agreed upon between supplier and customer. These may include short runs inside a building or in other outdoor applications, such as a transition between separate (unconnected) microduct systems, or from a microduct system to some other protective structure such as a cable conduit or tray.

Systems built with components covered by this standard are subject to the requirements of IEC 60794-5 where applicable.

Annex A shows examples of microduct optical fibre cables and microducts. Annex B describes a blank detail specification for outdoor microduct optical fibre cables and the associated microducts, and incorporates some minimum requirements. Detail product specifications may be prepared on the basis of this family specification using Annex B as a guide. Annex C provides normative requirements for microduct optical fibre cables.

The parameters specified in this standard may be affected by measurement uncertainty arising either from measurement errors or calibration errors due to lack of suitable standards. Acceptance criteria should be interpreted with respect to this consideration.

The number of fibres and microducts tested shall be representative of the microduct optical fibre cable design and should be agreed between customer and supplier.

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

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

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