

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Optical fibre cables –
Part 6-10: Indoor-outdoor cables – Family specification for universal
indoor-outdoor cables**

**Câbles à fibres optiques –
Partie 6-10: Câbles intérieurs/extérieurs – Spécification de famille pour
les câbles intérieurs/extérieurs universels**



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OPTICAL FIBRE CABLES –

**Part 6-10: Indoor-outdoor cables –
Family specification for universal indoor-outdoor cables**

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International Standard IEC 60794-6-10 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/2036/FDIS	86A/2050/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

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OPTICAL FIBRE CABLES –

Part 6-10: Indoor-outdoor cables – Family specification for universal indoor-outdoor cables

1 Scope

This part of IEC 60794 is a family specification covering features of optical fibre cables applicable to outdoor as well as indoor environments, called "universal indoor-outdoor cables". These cables generally possess the characteristics associated with outdoor cable designs (according to IEC 60794-3, however typically less stringent, and typically "not armored") having the thermal and mechanical robustness that makes them suitable for use in the outside plant, while simultaneously being flexible enough, compact and lightweight and exhibiting the fire performance required in indoor premises. A typical application is for example the centralized cabling in central office and the premises or local area network where the same cable design is used for the entire length of the cabling link including both the indoor as well as the outdoor portions.

2 Normative references

The following documents are referred to in the text in such 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 60332-1 (all parts), *Tests on electric and optical fibre cables under fire conditions – Part 1: Test for vertical flame propagation for a single insulated wire or cable*

IEC 60332-3 (all parts), *Tests on electric and optical fibre cables under fire conditions – Part 3: Test for vertical flame spread of vertically-mounted bunched wires or cables*

IEC 60754-2:2011, *Test on gases evolved during combustion of materials from cables – Part 2: Determination of acidity (by pH measurement) and conductivity*

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

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: Product specifications – Sectional specification for class B single-mode fibres*

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

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

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

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