

INTERNATIONAL STANDARD

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**Optical fibre cables –
Part 3-20: Outdoor cables – Family specification for self-supporting aerial
telecommunication cables**

**Câbles à fibres optiques –
Partie 3-20: Câbles extérieurs – Spécification de famille pour les câbles de
télécommunication aériens autoporteurs**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 3-20: Outdoor cables – Family specification
for self-supporting aerial telecommunication cables**

FOREWORD

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International Standard IEC 60794-3-20 has been prepared by Subcommittee 86A: Fibres and cables, of IEC Technical Committee 86: Fibre optics.

This third edition cancels and replaces the second edition published in 2009. It constitutes a technical revision.

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

- a) the specification has been streamlined by cross-referencing IEC 60794-1-1, IEC 60794-1-2 and the IEC 60794-3 series;
- b) an annex containing the MICE table has been deleted;
- c) an annex on examples has been added.

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

FDIS	Report on voting
86A/1733/FDIS	86A/1760/RVD

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 60794-3 series, published under the general title *Optical fibre cables – Part 3: Outdoor 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

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OPTICAL FIBRE CABLES –

Part 3-20: Outdoor cables – Family specification for self-supporting aerial telecommunication cables

1 Scope

This part of IEC 60794, which is a family specification, covers optical self-supporting aerial telecommunication cables. Requirements of the sectional specification IEC 60794-3 for duct, buried and aerial cables are applicable to cables covered by this standard.

Self-supporting aerial telecommunication cable in this context means a cable construction with sufficient strength members designed to be suspended on poles and similar devices without the aid of another supporting wire or conductor. ADSS cables installed on power lines which require special sheath material for tracking and erosion resistance and other constructions intended for high-voltage applications are not covered by this standard.

Detail specifications may be prepared based on this family specification.

NOTE IEC TR 62839-1 gives rules to build an environmental declaration in standard.

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

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 tests methods*

IEC 60794-1-22:2012, *Optical fibre cables – Part 1-22: Generic specification – Basic optical cable test procedures – Environmental tests methods*

IEC 60794-3-20:2014, *Optical fibre cables – Part 3: Outdoor cables – Sectional specification*

IEC 60811-203, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 203: General tests – Measurement of overall dimensions*

IEC 60811-302, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 302: Electrical tests – Measurement of the d.c. resistivity at 23 °C and 100 °C of filling compounds*

3 Terms and definitions

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