

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Hybrid telecommunication cables –  
Part 1: Generic specification**

**Câbles de télécommunication hybrides –  
Partie 1: Spécification générique**





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International Standard IEC 62807-1 has been prepared by subcommittee 46C: Wires and symmetric cables, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

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

FDIS	Report on voting
46C/1078/FDIS	46C/1081/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 62807 series, published under the general title *Hybrid telecommunication 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

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- withdrawn,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

## HYBRID TELECOMMUNICATION CABLES –

### Part 1: Generic specification

#### 1 Scope

This part of IEC 62807 is applicable to hybrid cables intended to contain any combination of optical fibres, twisted pair/quad, coaxial and current-carrying electrical conductor elements as required under a common outer sheath.

This hybrid cable design is convenient for networks and customer premises wiring that transmit data, telecommunication and signalling services over optical fibre, metallic twisted pairs, and/or broadband data over coaxial units, and retains the option of supplying electrical current to remote equipment.

The cable element (e.g. coaxial, balanced and optical fibre) performance requirements and supported applications are as specified in the following standards series: IEC 61196, IEC 61156, and IEC 60794 respectively.

The various combinations of strength members, sheath materials, fibre arrangements, twisted pair/quad structure, cable shielding, and current carrying conductors will be specified in the following specifications:

- IEC 62807-2<sup>1</sup>;
- IEC 62807-3<sup>2</sup>.

In IEC 62807 (all parts), the current carrying conductors are not intended to be used as power mains supply. The specific use and safety regulation requirements are defined in the detailed and sectional cable specification.

#### 2 Normative references

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.

IEC 60050-461, *International Electrotechnical Vocabulary – Part 461: Electric cables*

IEC 60050-731, *International Electrotechnical Vocabulary – Part 731: Optical fibre communication*

IEC 60794 (all parts), *Optical fibre cables*

IEC 60794-1 (all parts), *Optical fibre cables – Part 1: Generic specifications*

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

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<sup>1</sup> Under preparation.

<sup>2</sup> Under preparation.