

INTERNATIONAL STANDARD

**Hybrid communication cables –
Part 3: Outdoor hybrid cables – Sectional specification**





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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms, definitions, symbols and abbreviated terms.....	7
4 Design and construction	8
5 Rated values and characteristics	8
6 Performance requirements and test methods	8
6.1 General.....	8
6.2 Optical requirements for cabled optical fibre	9
6.3 Electrical and transmission requirements for cabled electrical element	9
6.3.1 Coaxial element.....	9
6.3.2 Pair/quad element	10
6.3.3 Current carrying element	10
6.3.4 Crosstalk between elements	11
6.4 Mechanical requirements of hybrid cable	11
6.4.1 Tensile	11
6.4.2 Crush	11
6.4.3 Impact	12
6.4.4 Repeated bending	12
6.4.5 Cold bend.....	12
6.4.6 Torsion	12
6.4.7 Bend.....	13
6.4.8 Abrasion resistance of cable sheaths.....	13
6.4.9 Abrasion resistance of cable markings.....	13
6.4.10 Tensile strength, and elongation at break of sheath	13
6.4.11 Other mechanical requirements	13
6.5 Environmental requirements of hybrid cable.....	13
6.5.1 Temperature cycling	13
6.5.2 Water penetration.....	14
6.5.3 Compound fibre	14
6.5.4 UV resistance test	14
7 Packaging	14
8 Quality assurance.....	14
Table 1 – Requirements of optical element	9
Table 2 – Requirements of coaxial element.....	9
Table 3 – Requirements of pair/quad element.....	10
Table 4 – Requirements of current carrying element	11

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HYBRID COMMUNICATION CABLES –

Part 3: Outdoor hybrid cables – Sectional specification

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IEC 62807-3 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. It is an International Standard.

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

Draft	Report on voting
46C/1243/FDIS	46C/1250/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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 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 COMMUNICATION CABLES –

Part 3: Outdoor hybrid cables – Sectional specification

1 Scope

This part of IEC 62807 is a sectional specification for outdoor hybrid communication cables intended to be used externally in various applications. It specifies terms, definitions, symbols and abbreviated terms, the design and construction, rated values and characteristics, performance requirements and test methods, packaging and quality assurance.

Hybrid cables are designed for networks and customer premises cabling that transmit data, telecommunication, instrumentation, control and signalling services over optical fibres and/or broadband data over coaxial element, wire/pair/quad element and can have the option of supplying electrical current to a remote equipment.

In the IEC 62807 series, the current carrying elements are used only to supply power to the equipment within the communication network. They are not used for electricity distribution or transmission, nor for power supply to domestic appliances. The specific uses are defined in the relevant specification.

The relationship between each of the MICE classification in ISO/IEC 11801-1, performance requirements and test methods of hybrid cables being proposed in a specific application are fully considered and aligned.

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 (IEV) – Part 461: Electric cables*

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

IEC 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*

IEC 60227-1, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements*

IEC 60228, *Conductors of insulated cables*

IEC 60502-1, *Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m = 1,2$ kV) up to 30 kV ($U_m = 36$ kV) – Part 1: Cables for rated voltages of 1 kV ($U_m = 1,2$ kV) and 3 kV ($U_m = 3,6$ kV)*

IEC 60793-1-40, *Optical fibres – Part 1-40: Attenuation measurement methods*

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