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Coaxial communication cables – Part 8-1: Blank detail specification for semi-flexible cables with fluoropolymer dielectric

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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COAXIAL COMMUNICATION CABLES –

Part 8-1: Blank detail specification for semi-flexible cables with fluoropolymer dielectric

FOREWORD

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IEC 61196-8-1 has been prepared by subcommittee 46A: Coaxial cables, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

This second edition cancels and replaces the first edition published in 2012. This edition constitutes a technical revision.

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

a) title changed to "Coaxial communication cables – Part 8: Blank detail specification for semi-flexible cables with fluoropolymer dielectric";

b) new requirements added in Clause 7;

c) "mean characteristic impedance" (see IEC 61196-8:2012, 7.1.5) changed to "Characteristic impedance";

d) Subclause 7.1.6 (see IEC 61196-8:2012) deleted.

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

Draft	Report on voting
46A/1640/FDIS	46A/1646/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.

This document is to be read in conjunction with IEC 61196-1:2005 and IEC 61196-8:2023.

A list of all parts in the IEC 61196 series, published under the general title *Coaxial communication 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- withdrawn,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.

COAXIAL COMMUNICATION CABLES –

Part 8-1: Blank detail specification for semi-flexible cables with fluoropolymer dielectric

1 Scope

This part of IEC 61196 applies to coaxial communication cables described in IEC 61196-8. It specifies the requirements of semi-flexible coaxial communication cables with fluoropolymer dielectric and tin soaked copper wire braid outer conductor. These cables are intended for use in mobile communication base station antenna systems, terrestrial microwave communication, radar systems and wireless equipment or other signal transmission equipment or units.

This document determines the layout and style for detail specifications. Detail specifications (DS) can be prepared by a national organization, a manufacturer or a user by entering the details in the blank detail 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 61169-4, *Radio-frequency connectors − Part 4: RF coaxial connectors with inner diameter of outer conductor 16 mm (0,63 in) with screw lock − Characteristic impedance 50 Ω (type 7-16)*

IEC 61196-1:2005, *Coaxial communication cables − Part 1: Generic specification − General, definitions and requirements*

IEC 61196-8:2023, *Coaxial communication cables − Part 8: Sectional specification for semi-flexible cables with fluoropolymer dielectric*

IEC 61196-10:2022, *Coaxial communication cables − Part 10: Sectional specification for semi-rigid cables with fluoropolymer dielectric*