IEC 61196-11-1

Edition 2.0 2022-03

INTERNATIONAL STANDARD

Coaxial communication cables – Part 11-1: Blank detail specification for semi-rigid cables with polyethylene (PE) dielectric

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 33.120.10

ISBN 978-2-8322-1087-0

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COAXIAL COMMUNICATION CABLES –

Part 11-1: Blank detail specification for semi-rigid cables with polyethylene (PE) dielectric

FOREWORD

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IEC 61196-11-1 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 2016. This edition constitutes a technical revision.

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

a) Item [8], engineering information: Maximum tensile force and average power introduced,
b) Item [9], electrical, environmental and mechanical characteristics more detailed,
c) Item [9], requirements for “Content of toxic and harmful substances” introduced.

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

Draft	Report on voting
46A/1552/FDIS	46A/1560/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/standardsdev/publications.

A list of all parts of the IEC 61196 series, 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- withdrawn,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 11-1: Blank detail specification for semi-rigid cables with polyethylene (PE) dielectric

1 Scope

This part of IEC 61196 applies to coaxial communication cables described in IEC 61196-11. It specifies the layout and style for detail specifications for semi-rigid coaxial communication cables with polyethylene (PE) dielectric. Semi-rigid coaxial communication cables with polyethylene (PE) dielectric are widely used in the interconnection between wireless communication equipment and antenna, as well as RF and microwave electronic equipment, broadcast television, microwave relay, navigation, etc.

This part of IEC 61196 is used in conjunction with IEC 61196-1 and IEC 61196-11, which determines the layout and style for detail specifications, based on the blank detail specification. It is prepared by a national organization, a manufacturer, or a user.

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

IEC 61196-11:2022, *Coaxial communication cables – Part 2: Sectional specification for semi-rigid cables with polyethylene (PE) dielectric*

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)*