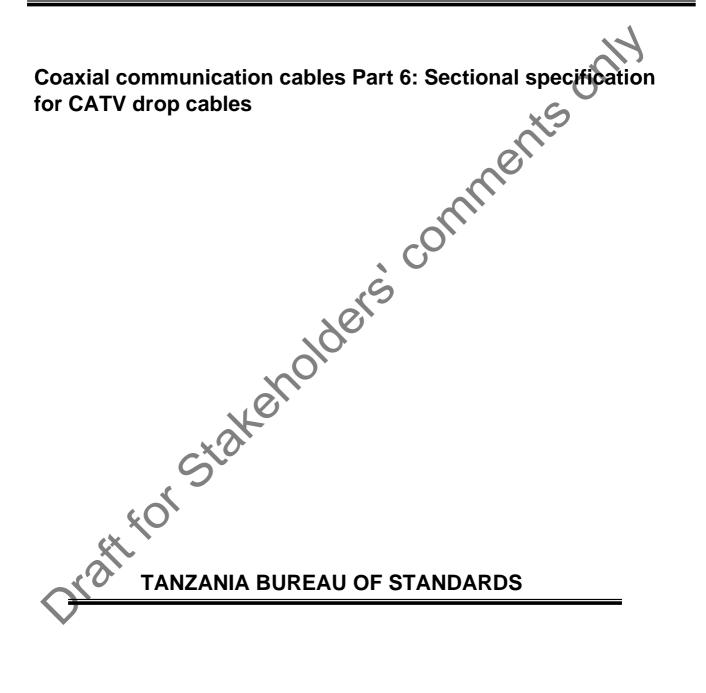


DRAFT TANZANIA STANDARD

(Draft for comments only)



1 National Foreword

This draft Tanzania Standard is being prepared by the Telecommunications and Information Technology Technical Committee, under the supervision of the Electrotechnical divisional standards committee (EDC)

This draft Tanzania Standard is an adoption of the International Standard **IEC 61196-6:2021** Coaxial communication cables – Part 6: Sectional specification for CATV drop cables, Which has been prepared by the International Electrotechnical Commission

2 Terminology and conventions

Some terminologies and certain conventions are not identical with those used in Tanzania standards; attention is drawn especially to the following: -

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use "full point" on the baseline as the decimal marker.
- 2) Where the words "International Standard(s)" appear, referring to this standard they should read "Tanzania Standard(s)".

IEC 61196-6

Edition 2.0 2021-08 **REDLINE VERSION**

INTERNATIONAL STANDARD

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Coaxial communication cables – Part 6: Sectional specification for CATV drop cables drop.c.

EPNATIONAL ELECTROTECHNICAL COMMISSION

ICS 33.120.10

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COAXIAL COMMUNICATION CABLES – Part 6: Sectional specification for

CATV drop cables FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 61196-6:2009. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

IEC 61196-6 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 2009. This edition constitutes a technical revision.

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

- a) extended scope,
- b) revised sheath marking and labelling.

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

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FDIS	Report on voting	
46A/1498/FDIS	46A/1514/RVD	0

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.

A list of all the parts in the IEC 61196 series, published under the general title Coaxial communication cables, can be found on the IEC website.

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.

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- reconfirmed.
- withdrawn.
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COAXIAL COMMUNICATION CABLES –

Part 6: Sectional specification for CATV drop cables

1 Scope

This part of IEC 61196 applies to coaxial communications cables. It specifies the requirements for CATV drop cables for analogue and digital one and two way signal transmission, e.g. for cable networks for television signals, sound signals, interactive services, surveillance & control systems, and satellite television receiving systems according to the requirements of IEC 60728-1, IEC 60728-101, IEC 60728-10, ISO/IEC 11801-1 and ISO/IEC 11801- 4. This also includes the transmission of BCT signals provided by a CATV, MATV or SMATV cable network.

The operating frequency is from 5 MHz to 1 000 MHz or from 5 MHz to 3 000 MHz.

Operating temperature is between -40 °C and +70 °C.

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 60068-1:19882013, Environmental testing – Part 1: General and guidance

IEC 60068-2-78, Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state

IEC 60096-0-1, Radio frequency cables – Part 0-1: Guidelines to the design of detail specifications – Coaxial cables

IEC 60811-605, Electric and optical fibre cables – Test methods for non-metallic materials – Part 605: Physical tests – Measurement of carbon black and/or mineral filler in polyethylene compounds

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

IEC 61196-1-1:2007, Coaxial communication cables – Part 1-1: Capability approval for coaxial cables

IEC 61196-1- 101, Coaxial communication cables – Part 1-101: Electrical test methods – Test for conductor d.c. resistance of cable

IEC 61196-1- 102, Coaxial communication cables – Part 1-102: Electrical test methods – Test for insulation resistance of cable dielectric

IEC 61196-1- 105, Coaxial communication cables – Part 1-105: Electrical test methods – Test for withstand voltage of cable dielectric

IEC 61196-1- 106, Coaxial communication cables – Part 1-106: Electrical test methods – Test for withstand voltage of cable sheath

IEC 61196-1-108, Coaxial communication cables – Part 1 -108: Electrical test methods – Test for characteristic impedance, phase and group delay, electrical length and propagation velocity

IEC 61196-1-112, Coaxial communication cables – Part 1-112: Electrical test methods – Test for return loss (uniformity of impedance)

IEC 61196-1-113, Coaxial communication cables – Part 1-113: Electrical test methods – Test for attenuation constant

IEC 61196-1- 115, Coaxial communication cables – Part 1-115: Electrical test methods – Test for regularity of impedance (pulse/step function return loss

IEC 61196-1 -201, Coaxial communication cables Part 1-201: Environmental test methods – Test for cold bend performance of cable

IEC 61196-1-203, Coaxial communication cables – Part 1-203: Environmental test methods – Test for water penetration of cable

IEC 61196-1-206, Coaxial communication cables – Part 1-206: Environmental test methods – Climatic sequence

IEC 61196-1-209, Coaxial communication cables – Part 1-209: Environmental test methods – Thermal cycling

IEC 61196-1-212, Coaxial communication cables – Part 1-212: Environmental test methods – UV stability

IEC 611961-301, Coaxial communication cables – Part 1-301: Mechanical test methods – Test for ovality

IEC 61196-1-302, Coaxial communication cables – Part 1-302: Mechanical test methods – Test for eccentricity

IEC 61196-1-308, Coaxial communication cables – Part 1-308: Mechanical test methods – Test for tensile strength and elongation for copper-clad metals

IEC 61196-1-310, Coaxial communication cables – Part 1-310: Mechanical test methods – Test for torsion characteristics of copper-clad metals

IEC 61196-1-313, Coaxial communication cables – Part 1-313: Mechanical test methods – Adhesion of dielectric and sheath

IEC 61196-1-314:2015, Coaxial communication cables – Part 1-314: Mechanical test methods – Test for bending

IEC 61196-1-316, Coaxial communication cables – Part 1-316: Mechanical test methods – Test of maximum pulling force of cable

IEC 61196-1-317, Coaxial communication cables – Part 1-317: Mechanical test methods – Test for crush resistance of cable

IEC 61196-1-324, Coaxial communication cables – Part 1-324: Mechanical test methods – Test for abrasion resistance of cable

IEC 62153-1-1, Metallic communication cables test methods – Part 1 -1, Electrical – Measurement of the pulse/step return loss in the frequency domain using the Inverse Discrete Fourier (IDFT)

IEC 62153-4 -3, Metallic communication cable test methods Part 4-3: Electromagnetic compatibility (EMC) – Surface transfer impedance – Triaxial method

IEC 62153-4 -4, Metallic communication cable test methods – Part 4-4: Electromagnetic compatibility (EMC) – Test method for measuring of the screening attenuation as up to and above 3 GHz, triaxial method

IEC 62230, Electric cables – Spark-test method

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61196-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

4 Materials and cable construction

4.1 Cable construction

The cable construction shall be in accordance with 4.2 to 4.6 of this document and the requirements stated in the relevant detail specification.

4.2 Inner conductor

4.2.1 Conductor material

IEC 61196-1:2005, Subclause 4.4.1 applies. The conductor material shall be stated in the relevant detail specification.

IEC 61196-6

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INTERNATIONAL STANDARD

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Coaxial communication cables – Part 6: Sectional specification for CATV drop cables





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COAXIAL COMMUNICATION CABLES – Part 6:

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IEC 61196-1- 106, Coaxial communication cables – Part 1-106: Electrical test methods – Test for withstand voltage of cable sheath

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IEC 61196-1-203, Coaxial communication cables – Part 1-203: Environmental test methods – Test for water penetration of cable

IEC 61196-1-206, Coaxial communication cables – Part 1-206: Environmental test methods – Climatic sequence

IEC 61196-1-209, Coaxial communication cables – Part 1-209: Environmental test methods – Thermal cycling

IEC 61196-1-212, Coaxial communication cables – Part 1-212: Environmental test methods – UV stability

IEC 61196-1-301, Coaxial communication cables – Part 1-301: Mechanical test methods – Test for ovality

IEC 61196-1-302, Coaxial communication cables – Part 1-302: Mechanical test methods – Test for eccentricity

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IEC 62230, Electric cables - Spark-test method

3 Terms and definitions

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- ISO Online browsing platform: available at http://www.iso.org/obp

4 Materials and cable construction

4.1 Cable construction

The cable construction shall be in accordance with 4.2 to 4.6 of this document and the requirements stated in the relevant detail specification.

4.2 Inner conductor

4.2.1 Conductor material

IEC 61196-1: 2005, Subclause 4.4.1 applies. The conductor material shall be stated in the relevant detail specification.

4.2.2 Conductor construction

The conductor shall consist of a single wire or tube.

IEC 61196-1:2005, Subclause 4.4 applies.

The nominal diameter of the inner conductor and tolerance shall be stated in the relevant detail specification.

The maximum allowable tolerance is \pm 0,03 mm.

4.3 Dielectric

IEC 61196-1:2005, Subclause 4.5 applies.