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INTERNATIONAL STANDARD

Coaxial communication cables -NDARD PREVIEW Part 6-4: Detail specification for 75-7 type CATV drop cables

> <u>IEC 61196-6-4:2018</u> https://standards.iteh.ai/catalog/standards/sist/86c96a60-d2ad-411d-a696-0e11b5dbc888/iec-61196-6-4-2018





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IEC Central Office 3, rue de Varembé CH-1211 Geneva 20 Switzerland Tel.: +41 22 919 02 11 info@iec.ch www.iec.ch

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COAXIAL COMMUNICATION CABLES -

Part 6-4: Detail specification for 75-7 type CATV drop cables

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International Standard IEC 61196-6-4 has been prepared by subcommittee 46A: Coaxial cables, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components.

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

FDIS	Report on voting
46A/1354/FDIS	46A/1360/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.

This International Standard is to be used in conjunction with IEC 61196-1:2005 and IEC 61196-6:2009.

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 "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- withdrawn,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.

A bilingual version of this publication may be issued at a later date.

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COAXIAL COMMUNICATION CABLES -

Part 6-4: Detail specification for 75-7 type CATV drop cables

1 Scope

This part of IEC 61196 applies to coaxial communication cables described in IEC 61196-6. It specifies the requirements for 75-7 type CATV drop cables. These cables are used in CATV distribution systems, surveillance and control systems, satellite television receiving systems and as bidirectional hybrid fibre coax (HFC). The operating frequency is from 5 MHz to 3 000 MHz.

This part of IEC 61196 is to be used in conjunction with IEC 61196-1:2005 and IEC 61196-6:2009. It determines the layout and style with respect to the model and type.

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.

(standards.iteh.ai)

NOTE Documents which are needed to achieve the tests according to Clause 4, item [8] or item [9], respectively, are listed in IEC 61196-6.

IEC 61196-6-4:2018

IEC 61196-1:2005, hCoaxial communication: cables is: 88 art all - Generic specification – General, definitions and requirements 0e11b5dbc888/iec-61196-6-4-2018

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

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

IEC 61196-6:2009, Coaxial communication cables – Part 6: Sectional specification for CATV drop cables

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

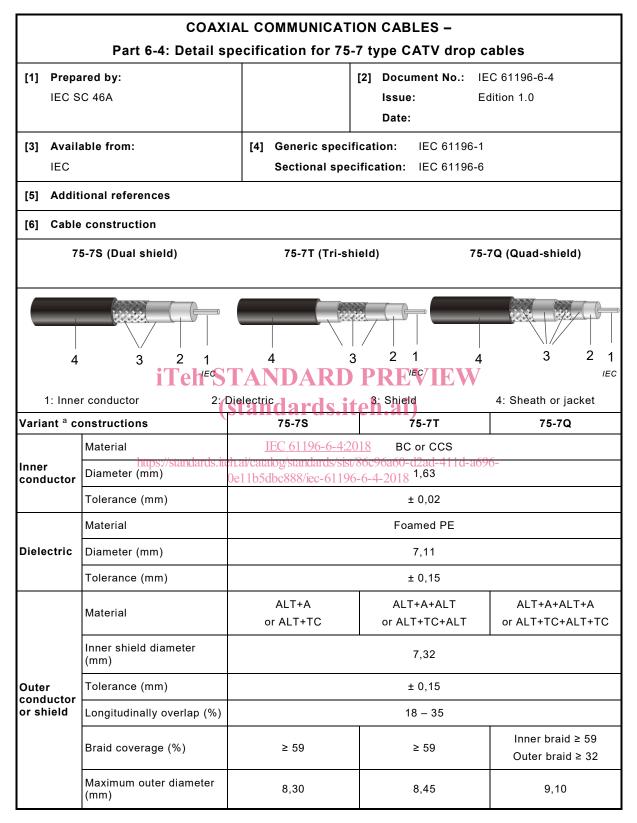
3 Terms and definitions

No terms and definitions are listed in this document.

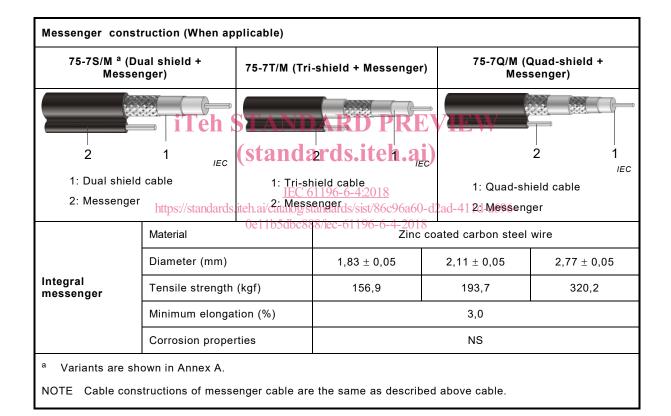
ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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

Detail specification 4



	Material	PVC or PE or LSZH			
Sheath or jacket	Minimum thickness (mm)	0,80	0,73	0,51	
	Diameter (mm)	10,16	10,16	10,34	
	Tolerance (mm)	± 0,25			
^a Variants	are shown in Annex A.				
NOTE:					
CCS — Cop	copper wire oper clad steel wire ninium-polymeric laminated tap	be			
A — Alumir	nium alloy wire				
TC — Tinne	ed copper wire				
PE – Polye	ethylene				
PVC - Pol	yvinylchloride				
LSZH — Lo	w smoke zero halogen polyole	fin			



[7] Engineering information (reference only)				
Operating temperature range	-40 °C to 70 °C (PE Sheath)			
	−20 °C to 70 °C (PVC Sheath)			
	−15 °C to 70 °C (LSZH Sheath)			
Operating frequency range	5 MHz to 3 000 MHz			
Nominal characteristic impedance	75 Ω			
Minimum bending radius	10D (D is the nominal cable outer diameter)			
Relative propagation velocity	85 % (nominal)			
Maximum current carrying capacity	13 A (20 °C); 10 A (40 °C)			
Cable identification and marking	See Annex A.			