ICS 33.120.10 SLOVENSKÁ TECHNICKÁ NORMA Júl 2016

STN	**Koaxiálne komunikačné káble. Časť 10: Rámcová špecifikácia polotuhých káblov s dielektrikom z polytetrafluóretylénu (PTFE).**	**STN EN 61196-10** 34 7721

Coaxial communication cables - Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/16

Obsahuje: EN 61196-10:2016, IEC 61196-10:2014

Oznámením tejto normy sa od 22.01.2019 ruší
STN EN 61196-2 (34 7721) z apríla 2004

122781

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61196-10

January 2016

ICS 33.120.10

Supersedes EN 61196-2:2003

English Version

Coaxial communication cables - Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric (IEC 61196-10:2014)

Câbles coaxiaux de communication - Partie 10: Spécification intermédiaire relative aux câbles semi-rigides avec diélectrique en polytétrafluoroéthylène (PTFE) (IEC 61196-10:2014)

Koaxiale Kommunikationskabel - Teil 10: Rahmenspezifikation für halb-starre Kabel mit Polytetrafluorethylen- (PTFE-)Isolation (IEC 61196-10:2014)

This European Standard was approved by CENELEC on 2015-10-05. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 61196-10:2016

European foreword

The text of document 46A/1213/FDIS, future edition 1 of IEC 61196-10, prepared by SC 46A "Coaxial cables" of IEC/TC 46 "Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61196-10:2016.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2016-07-22
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-01-22

This document supersedes EN 61196-2:2003.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61196-10:2014 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)
Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60068-1	1988	Environmental testing -- Part 1: General and guidance	EN 60068-1	1994
+ A1	1992		-	-
IEC 61169-4	-	Radio-frequency connectors -- Part 4: R.F. coaxial connectors with inner diameter of outer conductor 16 mm (0,63 in) with screw lock - Characteristic impedance 50 ohms (type 7-16)	-	-
IEC 61196-1	2005	Coaxial communication cables - Part 1: Generic specification - General, definitions and requirements	-	-
IEC 61196-1-1	-	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 DC resistance of cable	-	-
IEC 61196-1-102	-	Coaxial communication cables - Part 1-102: Electrical test methods - Test for insulation resistance of cable dielectric	-	-
IEC 61196-1-103	-	Coaxial communication cables - Part 1-103: Electrical test methods - Test for capacitance of cable	-	-
IEC 61196-1-105	-	Coaxial communication cables - Part 1-105: Electrical test methods - Test for withstand voltage of cable dielectric	-	-
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 61196-1-301	-	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 61196-1-313	-	Coaxial communication cables - Part 1-313: Mechanical test methods - Adhesion of dielectric and sheath	-	-
IEC 61196-1-314	-	Coaxial communication cables - Part 1-314: Mechanical test methods - Test for bending	-	-
IEC 61196-1-318	-	Coaxial communication cables - Part 1-318: Mechanical test methods - Heat performance tests	-	-
IEC 62037-4	2012	Passive RF and microwave devices, intermodulation level measurement -- Part 4: Measurement of passive intermodulation in coaxial cables	EN 62037-4	2012
IEC 62230	2006	Electric cables - Spark-test method	EN 62230	2007
ISO 2859-1	1999	Sampling procedures for inspection by attributes - Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection	-	-

IEC 61196-10

Edition 1.0 2014-09

INTERNATIONAL STANDARD

Coaxial communication cables – Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric

IEC 61196-10:2014-09(en)

IEC Central Office
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

About the IEC
The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications
The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

IEC Catalogue - webstore.iec.ch/catalogue
The stand-alone application for consulting the entire bibliographical information on IEC International Standards, Technical Specifications, Technical Reports and other documents. Available for PC, Mac OS, Android Tablets and iPad.

IEC publications search - www.iec.ch/searchpub
The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee,…). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished
Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and also once a month by email.

Electropedia - www.electropedia.org
The world's leading online dictionary of electronic and electrical terms containing more than 30 000 terms and definitions in English and French, with equivalent terms in 14 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

IEC Glossary - std.iec.ch/glossary
More than 55 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

IEC Customer Service Centre - webstore.iec.ch/csc
If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: csc@iec.ch.

IEC 61196-10

Edition 1.0 2014-09

INTERNATIONAL STANDARD

Coaxial communication cables – Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRICE CODE Q

ICS 33.120.10

ISBN 978-2-8322-1866-2

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

_____

COAXIAL COMMUNICATION CABLES –

Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric

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.
2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
6) All users should ensure that they have the latest edition of this publication.
7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
9) 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.

International Standard IEC 61196-10 has been prepared by subcommittee 46A: Coaxial cables, of IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

The text of this standard is based on the following documents:

FDIS	Report on voting
46A/1213/FDIS	46A/1232/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

This publication is to be read in conjunction with IEC 61196-1:2005.

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 publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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

COAXIAL COMMUNICATION CABLES –

Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric

1 Scope

This part of IEC 61196 applies to semi-rigid coaxial communication cables with polytetrafluoroethylene (PTFE) dielectric and tubular outer conductor. These cables are intended for use in microwave and wireless equipments or other signal transmission equipments or units at frequencies above 500 MHz. It is to be read in conjunction with IEC 61196-1:2005.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-1:1988, *Environmental testing – Part 1: General and guidance*
IEC 60068-1:1988/AMD 1:1992

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 61196-1-1, *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 61196-1-103, *Coaxial communication cables – Part 1-103: Electrical test methods – Test for capacitance of cable*

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

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 61196-1-301, *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 61196-1-313, *Coaxial communication cables – Part 1-313: Mechanical test methods – Adhesion of dielectric and sheath*

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

IEC 61196-1-318, *Coaxial communication cables – Part 1-318: Mechanical test methods – Heat performance tests*

IEC 62037-4:2012, *Passive RF and microwave devices, intermodulation level measurement – Part 4: Measurement of passive intermodulation in coaxial cables*

IEC 62230:2006, *Electric cables – Spark-test method*

ISO 2859-1:1999, *Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*