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Standards

Irish Standard  
I.S. EN 61196-10:2016&AC:2016-02

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

**I.S. EN 61196-10:2016&AC:2016-02**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

EN 61196-10:2016/AC:2016-02

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*This document is based on:*

EN 61196-10:2016

*Published:*

2016-01-22

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2016-03-16

ICS number:

33.120.10

NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN 61196-10:2016&AC:2016-02 is the adopted Irish version of the European Document EN 61196-10:2016, Coaxial communication cables - Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61196-10:2016/AC:2016-02**

February 2016

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ICS 33.120.10

English Version

**Coaxial communication cables - Part 10: Sectional specification  
for semi-rigid cables with polytetrafluoroethylene (PTFE)  
dielectric  
(IEC 61196-10:2014/COR1:2016)**

Câbles coaxiaux de communication - Partie 10:  
Spécification intermédiaire relative aux câbles semi-rigides  
avec diélectrique en polytétrafluoroéthylène (PTFE)  
(IEC 61196-10:2014/COR1:2016)

Koaxiale Kommunikationskabel - Teil 10:  
Rahmenspezifikation für halb-starre Kabel mit  
Polytetrafluorethylen- (PTFE-)Isolation  
(IEC 61196-10:2014/COR1:2016)

This corrigendum becomes effective on 19 February 2016 for incorporation in the English language version of the EN.



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**

### **Endorsement notice**

The text of the corrigendum IEC 61196-10:2014/COR1:2016 was approved by CENELEC as EN 61196-10:2016/AC:2016-02 without any modification.

IEC 61196-10:2014/COR1:2016  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**IEC 61196-10**  
Edition 1.0 2014-09

### COAXIAL COMMUNICATION CABLES –

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

## CORRIGENDUM 1

### **A.2.1.2 Maintenance of qualification approval**

*Replace the existing text by the following new text:*

This shall consist of three consecutive lots passing test groups A specified in A.2.3.1.6 and B specified in A.2.3.1.7 and followed by selection of specimens from the lots as appropriate. These specimens shall successfully pass the periodic inspection (test groups C) specified in A.2.4.

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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)  
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Câbles coaxiaux de communication - Partie 10:  
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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.

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

This document supersedes EN 61196-2:2003.

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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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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	-	-

## EN 61196-10:2016

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**

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



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**IEC 61196-10**

Edition 1.0 2014-09

# INTERNATIONAL STANDARD

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

INTERNATIONAL  
ELECTROTECHNICAL  
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**Q**

ICS 33.120.10

ISBN 978-2-8322-1866-2

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### COAXIAL COMMUNICATION CABLES –

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

#### FOREWORD

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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,
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- 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  $\Omega$ ; (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)*

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