
Komunikacijski koaksialni kabli– 4. del: Področne specifikacije za sevalne kable (IEC 61196-4:2004)*

Coaxial communication cables - Part 4: Sectional specification for radiating cables (IEC 61196-4:2004)

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EUROPEAN STANDARD

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NORME EUROPÉENNE

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Coaxial communication cables
Part 4: Sectional specification for radiating cables
(IEC 61196-4:2004)

Câbles coaxiaux de communication
Partie 4: Spécification intermédiaire
pour câbles rayonnants
(CEI 61196-4:2004)

Koaxiale Kommunikationskabel
Teil 4: Rahmenspezifikation
für abstrahlende Kabel
(IEC 61196-4:2004)

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This European Standard was approved by CENELEC on 2004-03-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 46A/582/FDIS, future edition 2 of IEC 61196-4, 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 was approved by CENELEC as EN 61196-4 on 2004-03-01.

This standard is to be used in conjunction with EN 61196-1.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2004-12-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-03-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61196-4:2004 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

The following referenced documents are indispensable for the application 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.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068	Series	Environmental testing	EN 60068	Series
IEC 60332	Series	Tests on electric cables under fire conditions	- ¹⁾	-
IEC 60754	Series	Test on gases evolved during combustion of materials from cables	- ²⁾	-
IEC 61034	Series	Measurement of smoke density of cables burning under defined conditions	- ³⁾	-
IEC 61196-1	1995	Radio-frequency cables Part 1: Generic specification - General, definitions, requirements and test methods	-	-
A1	1999	SIST EN 61196-4:2004 https://standards.iteh.ai/catalog/standards/sist/8d9b7be9-25d4-4ace-b164-d05c2393ea58/sist-en-61196-4-2004	-	-

¹⁾ The series EN 50266, which is related to the series IEC 60332, applies.
²⁾ The series EN 50267, which is related to the series IEC 60754, applies.
³⁾ The series EN 50268, which is related to the series IEC 61034, applies.

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NORME
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CEI
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61196-4

Deuxième édition
Second edition
2004-01

Câbles coaxiaux de communication –

**Partie 4:
Spécification intermédiaire
pour câbles rayonnants**

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Coaxial communication cables –

Part 4: [SIST EN 61196-4:2004](https://standards.iteh.ai/catalog/standards/sist/8d9b7be9-25d4-4ace-b164-d05c2395ca58/sist-en-61196-4-2004)

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**Sectional specification
for radiating cables**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COAXIAL COMMUNICATION CABLES –

Part 4: Sectional specification for radiating 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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International Standard IEC 61196-4 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.

This second edition cancels and replaces the first edition published in 1995. This edition constitutes a technical revision.

The main changes with respect to the previous edition are as follows:

- a) Frequency limitation removed from the scope;
- b) New requirement for performance in fire;
- c) Changes to the procedure, measurement and evaluation of the attenuation constant (Annex A);
- d) Changes to the procedure, measurement evaluation and requirement of the coupling loss (Annex B)

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

FDIS	Report on voting
46A/582/FDIS	46A/611/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 standard is to be used in conjunction with IEC 61196-1.

The future edition of IEC 61196-1 will have the new title *Coaxial communication cables* which is already used in this standard.

The committee has decided that the contents of this publication will remain unchanged until 2008. At this date, the publication will be

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

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COAXIAL COMMUNICATION CABLES –

Part 4: Sectional specification for radiating cables

1 Scope

This part of IEC 61196 covers the requirements for flexible and semi-flexible radiating coaxial communication cables. It specifies preferred ratings and characteristics for radiating cables and enables selection of the appropriate tests and performance levels from the generic specification for inclusion in the detail specification.

NOTE The coupling intensity between cable and mobile equipment depends on

- construction of the cable;
- orientation of antenna;
- distance of the mobile antenna from the cable;
- type of antenna;
- nature of ambient atmosphere;
- operating frequency range;
- manner of installation of the cable;
- shape, material and size of surrounding buildings.

2 Normative references

[SIST EN 61196-4:2004](https://standards.iteh.ai/catalog/standards/sist/849b7be9-25d4-4a9e-b164-d95e2393ea58/sist-en-61196-4-2004)

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IEC 60332 (all parts), *Tests on electric cables under fire conditions*

IEC 60754 (all parts), *Test on gases evolved during combustion of materials from cables*

IEC 61034 (all parts), *Measurement of smoke density of electric cables burning under defined conditions*

IEC 61196-1:1995, *Radio-frequency cables – Part 1: Generic specification – General, definitions, requirements and test methods*
Amendment 1 (1999)