

**SLOVENSKI STANDARD**  
**SIST EN 60966-3-1:2009****01-julij-2009****BUXca Yý U**  
**SIST EN 60966-3-1:2004**

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**Radijska frekvenca in sestavi koaksialnih kablov - 3-1. del: Okvirna podrobna specifikacija za sestave polzvijavih (polfleksibilnih) koaksialnih kablov (IEC 60966-3-1:2009)**

Radio frequency and coaxial cable assemblies - Part 3-1: Blank detail specification for semi-flexible coaxial cable assemblies (IEC 60966-3-1:2009 )

**iTeh STANDARD PREVIEW**

Konfektionierte Koaxial- und Hochfrequenzkabel - Teil 3-1: Vordruck für Bauartspezifikation für halbflexible Koaxialkabel (IEC 60966-3-1:2009 )

[SIST EN 60966-3-1:2009](#)

Ensembles de cordons coaxiaux et de cordons pour fréquences radioélectriques - Partie 3-1: Spécification particulière cadre pour cordons coaxiaux semi-flexibles (CEI 60966-3-1:2009 )

**Ta slovenski standard je istoveten z: EN 60966-3-1:2009**

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**ICS:**

33.120.10 Koaksialni kabli. Valovodi Coaxial cables. Waveguides

**SIST EN 60966-3-1:2009 en**

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SIST EN 60966-3-1:2009

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60966-3-1**

April 2009

ICS 33.120.10

Supersedes EN 60966-3-1:2003

English version

**Radio frequency and coaxial cable assemblies -  
Part 3-1: Blank detail specification  
for semi-flexible coaxial cable assemblies  
(IEC 60966-3-1:2009)**

Ensembles de cordons coaxiaux  
et de cordons pour fréquences  
radioélectriques -  
Partie 3-1: Spécification particulière cadre  
pour cordons coaxiaux semi-flexibles  
(CEI 60966-3-1:2009)

Konfektionierte Koaxial-  
und Hochfrequenzkabel -  
Teil 3-1: Vordruck für Bauartspezifikation  
für halbflexible konfektionierte  
Koaxialkabel  
(IEC 60966-3-1:2009)

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This European Standard was approved by CENELEC on 2009-02-01. 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, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**CENELEC**

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

**Central Secretariat: avenue Marnix 17, B - 1000 Brussels**

## Foreword

The text of document 46/306/FDIS, future edition 3 of IEC 60966-3-1, prepared by 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 60966-3-1 on 2009-02-01.

This European Standard supersedes EN 60966-3-1:2003.

The major change with respect to EN 60966-3-1:2003 is the reference to the sectional specification EN 60966-3:2009.

This blank detail specification is to be read in conjunction with EN 60966-1:1999 and with EN 60966-3:2009.

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) 2009-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-02-01

## iTeh STANDARD PREVIEW

### Endorsement notice (standards.iteh.ai)

The text of the International Standard IEC 60966-3-1:2009 was approved by CENELEC as a European Standard without any modification. [SIST EN 60966-3-1:2009](https://standards.iteh.ai/catalog/standards/sist/ded7ef09-3f35-459b-ab9f-68c356764e7c/sist-en-60966-3-1-2009)

In the official version, for Reference documents, the following note has to be added for the standard indicated:

IEC 60068                      NOTE Harmonized in EN 60068 series (not modified).

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IEC 60966-3-1

Edition 3.0 2009-01

# INTERNATIONAL STANDARD

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Radio frequency and coaxial cable assemblies –  
Part 3-1: Blank detail specification for semi-flexible coaxial cable assemblies  
**STANDARD PREVIEW**  
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[SIST EN 60966-3-1:2009](https://standards.iteh.ai/catalog/standards/sist/ded7ef09-3f35-459b-ab9f-68c356764e7c/sist-en-60966-3-1-2009)

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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

PRICE CODE

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ICS 33.120.10

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIO FREQUENCY AND COAXIAL  
CABLE ASSEMBLIES –****Part 3-1: Blank detail specification for  
semi-flexible coaxial cable assemblies**

## 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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- 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 60966-3-1 has been prepared by IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

This third edition cancels and replaces the second edition published in 2003 and constitutes a technical revision.

The major change with respect to the first edition is the reference to the third edition of the sectional specification.

This blank detail specification is to be read in conjunction with the second edition of IEC 60966-1 (1999) and with the third edition of IEC 60966-3 (2008).

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

FDIS	Report on voting
46/306/FDIS	46/318/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.

A list of all parts of the IEC 60966 series, under the general title: *Radio frequency and coaxial cable assemblies*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.

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## INTRODUCTION

This part of IEC 60966 is a blank detail specification that relates to semi-flexible coaxial cable assemblies operating in the transverse electromagnetic mode (TEM).

The creation of a uniform layout and style of a detail specification is determined by the use of a blank detail specification pro forma. The detail specification may be prepared by the insertion of data into the pro forma by a national standards organization, by an approved manufacturer or by a user (when prepared by a user, the detail specification shall be submitted to the national authorized institution by an approved manufacturer).

Instructions to complete a blank detail specification:

Detail specifications should, as far as possible, be written in accordance with the pro forma which has:

- a front page with a general description and a drawing or isometric sketch of the cable assembly and its possible variants;
- ratings, characteristics and inspection requirements (those which are not required or specified shall be omitted).

Under quality assessment, tests are divided into groups. Whenever possible, entire groups are either specified or omitted.

These groups are:

Ba	(basic)	Visual and dimensional tests
Eb	(electrical basic)	Low-frequency operational tests
Eh	(electrical high frequency)	High-frequency tests
Ep	(electrical phase)	Electrical length tests
Ee	(electrical screening effectiveness)	Screening effectiveness tests
Ez	(electrical impedance Z)	Impedance uniformity tests
Et	(electrical transmission)	Power rating test
Mn	(mechanical)	Mechanical tests
Vc	(environmental climatic)	Climatic tests
Vv	(environmental vibration)	Vibration, bumps and shock tests
Vt	(environmental temperature)	Humidity, rapid change of temperature and chemical tests
Vf	(environmental flammability)	Flammability, dust and water immersion tests



The numbers shown in brackets on this page correspond to the following items of required information, which should be entered in the spaces provided.

- [1] Name and address of the organization that has prepared the document.
- [2] IEC document number, issue number and date of issue.
- [3] Address of the organization from which the document is available.
- [4] Related documents.
- [5] Any other reference to the cable assembly, national reference, trade name, etc.
- [6] A drawing of the cable assembly giving the outline and principal dimensions. The dimensions are considered to be in millimetres unless otherwise specified.  
NOTE The symbol "l" may be used to specify the cable length. In this case, the detail specification covers cable assemblies of any length and "l" should then be specified in the order.
- [7] Nominal characteristic impedance of the cable assembly.
- [8] Frequency range of use of the cable assembly (DC may be used as a lower limit of frequency, indicating that the cable assembly is capable of transmitting d.c., but at d.c. a number of characteristics may neither apply nor be verified by inspection.)
- [9] Weight, function of the length of the cable assembly.
- [10] Minimum static inside bending radius of the cable assembly. Also minimum dynamic inside bending radius of the cable assembly, i.e. the bending radius used for the insertion loss and stability of electrical length tests.
- [11] Climatic category of the cable assembly related to IEC 60068.
- [12] The applicable quality assessment test groups according to Table 1 of the sectional specification (for example, Ba, Eh, Eb).
- [13] Description, of the components used for the manufacture of the cable assembly. When the components do not conform with the relevant publication(s), their relevant materials requirements shall be listed.
- [14] Variants of the cable assembly may be listed in one detail specification. The variants may differ by colour, connector material, connector sex or type. (Inspection for quality conformance will be the same for all variants whereas the ratings and characteristics can change.)
- [15] Number of pages of the blank detail specification including the annexes.
- [16] Ratings and characteristics of the cable assembly. The properties not specified should be omitted.
- [17] Reference to the appropriate subclause in the sectional and generic specifications.
- [18] The value either guaranteed or used for the defined test.
- [19] All information required by the sectional specification and any remarks considered as important for understanding the test.
- [20] Test groups (corresponding to box [12] on page 1 of the blank detail specification).
- [21] Name of test and its subclause number in the sectional and generic specifications.
- [22] Periodicity of the test. The periodic tests apply only in the case of qualification approval.
- [23] Inspection level selected from IEC 60410.