## Radio frequency and coaxial cable assemblies -- Part 3-1: Blank detail specification for semi-flexible coaxial cable assemblies



## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60966-3-	This Estonian standard EVS-EN 60966-3-1:2009			
1:2009 sisaldab Euroopa standardi EN 60966-	consists of the English text of the European			
3-1:2009 ingliskeelset teksti.	standard EN 60966-3-1:2009.			
Standard on kinnitatud Eesti Standardikeskuse	This standard is ratified with the order of			
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Standard on kättesaadav Eesti 🍾	The standard is available from Estonian			
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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

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 Konfektionierte Koaxialet de cordons pour fréquer und Hochfrequenzkabel radioélectriques -Teil 3-1: Vordruck für Bauartspezifikation Partie 3-1: Spécification particulière cadre für halbflexible konfektionierte pour cordons coaxiaux semi-flexibles Koaxialkabel (CEI 60966-3-1:2009) (IEC 60966-3-1:2009) This European Standard was approved by CENE 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 CENELEO nber. 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 CENERC 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 stria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portuga 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

English version

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## 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
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Enc. Standard IEC 609 3-.. ation. Thereforence documents, the collowing n. MOTE Harmonized in EN 60068 series (normodified). 3-1:2009 was approved by CENELEC as a European The text of the International Standard IEC 60960 Standard without any modification.

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

IEC 60068

### 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)
- Eb (electrical basic)
- Eh (electrical high frequency)
- Ep (electrical phase)
- Ee (electrical screening effectiveness)
- Ez (electrical impedance Z)
- Et (electrical transmission)
- Mn (mechanical)
- Vc (environmental climatic)
- Vv (environmental vibration)
- Vt (environmental temperature)
- Vf (environmental flammability)

Visual and dimensional tests Low-frequency operational tests Figh-frequency tests Executical length tests Screening effectiveness tests Impedance uniformity tests Power rating test Mechanical tests Climatic tests Vibration, bumps and shock tests Humidity, rapid change of temperature and chemical tests 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 the cable assembly giving the outline and principal dimensions. The dimensions are considered to be in millimetres unless otherwise specified. NOTE The symbol may be used to specify the cable length. In this case, the detail specification covers cable assemblies of any ength and "I" 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 whe 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 ength 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 manuacture 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 total specification. The variants may differ by colour, connector material, connector sex otype. (Inspection for quality conformance will be the same for all variants whereas the stings 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 nor 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.

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