
Radio frequency and coaxial cable assemblies - Part 4-1: Blank detail specification
for semi-rigid coaxial cable assemblies (IEC 60966-4-1:2003)

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EUROPEAN STANDARD

EN 60966-4-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2003

ICS 33.120.10

Supersedes EN 60966-4-1:1994

English version

Radio frequency and coaxial cable assemblies
Part 4-1: Blank detail specification for semi-rigid coaxial cable assemblies
(IEC 60966-4-1:2003)

Ensembles de cordons coaxiaux
et de cordons pour fréquences
radioélectriques
Partie 4-1: Spécification particulière cadre
pour cordons coaxiaux semi-rigides
(CEI 60966-4-1:2003)

Konfektionierte Koaxial- und
Hochfrequenzkabel
Teil 4-1: Vordruck für Bauartspezifikation
für halbstarre konfektionierte Koaxialkabel
(IEC 60966-4-1:2003)

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This European Standard was approved by CENELEC on 2003-10-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, 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/552/FDIS, future edition 2 of IEC 60966-4-1, 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 60966-4-1 on 2003-10-01.

This European Standard supersedes EN 60966-4-1:1994.

The major change with respect to EN 60966-4-1:1994 is the reference to the 1999 edition of the generic specification EN 60966-1.

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) 2004-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-10-01

This blank detail specification is to be read with EN 60966-1:1999, *Radio frequency and coaxial cable assemblies – Part 1: Generic specification - General requirements and test methods* and with EN 60966-4:2003, *Radio frequency and coaxial cable assemblies – Part 4: Sectional specification for semi-rigid coaxial cable assemblies*.

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The text of the International Standard IEC 60966-4-1:2003 was approved by CENELEC as a European Standard without any modification.

NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

60966-4-1

Deuxième édition
Second edition
2003-08

**Ensembles de cordons coaxiaux et de
cordons pour fréquences radioélectriques –**

**Partie 4-1:
Spécification particulière cadre
pour cordons coaxiaux semi-rigides**

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Radio frequency and coaxial cable assemblies –

SIST EN 60966-4-1:2004

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**Part 4-1:
Blank detail specification for
semi-rigid coaxial cable assemblies**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIO FREQUENCY AND COAXIAL
CABLE ASSEMBLIES –****Part 4-1: Blank detail specification for
semi-rigid coaxial cable assemblies**

FOREWORD

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International Standard IEC 60966-4-1 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 1992 and constitutes a technical revision.

The major changes with respect to the first edition is the reference to the second edition of the generic specification.

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

FDIS	Report on voting
46A/552/FDIS	46A/568/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 blank detail specification is to be read with IEC 60966-1:1999, *Radio frequency and coaxial cable assemblies – Part 1: Generic specification – General requirements and test methods* and with IEC 60966-4:2003, *Radio frequency and coaxial cable assemblies – Part 4: Sectional specification for semi-rigid coaxial cable assemblies*

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

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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INTRODUCTION

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

The creation of a uniform layout and style of detail specifications 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 shall, 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 shall be 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 and water immersion tests

The numbers shown in brackets on this and the following pages 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 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] Not applicable in semi-rigid coaxial cable assemblies.
- [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, if applicable, of the components used for the manufacture of the cable assembly.
- [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 shall 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.