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

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EUROPEAN STANDARD

**EN 60966-4**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2003

ICS 33.120.10

Supersedes EN 60966-4:1994

English version

**Radio frequency and coaxial cable assemblies**  
**Part 4: Sectional specification for semi-rigid coaxial cable assemblies**  
(IEC 60966-4:2003)

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

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

**iTeh STANDARD PREVIEW**

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/551/FDIS, future edition 2 of IEC 60966-4, 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 60966-4 on 2003-10-01.

This European Standard supersedes EN 60966-4:1994.

The major change with respect to EN 60966-4:1994 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 sectional 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*.

Annexes designated "normative" are part of the body of the standard.  
In this standard, annex ZA is normative.  
Annex ZA has been added by CENELEC.

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**Endorsement notice**

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

**Annex ZA**  
(normative)

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

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60096-2	1988	Radio-frequency cables - Part 2: Relevant cable specifications	-	-
IEC 60410	1973	Sampling plans and procedures for inspection by attributes	-	-
IEC 60966-1	1999	Radio frequency and coaxial cable assemblies Part 1: Generic specification - General requirements and test methods	EN 60966-1	1999
IEC 61169	Series	Radio-frequency connectors	EN 61169	Series
IEC 61196	Series	Radio frequency cables	EN 61196	Series
ISO 9000	- 1)	Quality management systems Fundamentals and vocabulary	EN ISO 9000	2000 2)

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1) Undated reference.

2) Valid edition at date of issue.

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NORME  
INTERNATIONALE  
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60966-4

Deuxième édition  
Second edition  
2003-08

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

**Partie 4:  
Spécification intermédiaire  
pour cordons coaxiaux semi-rigides**

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**Radio frequency and coaxial cable assemblies –**

SIST EN 60966-4:2004

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**Part 4:  
Sectional specification for  
semi-rigid coaxial cable assemblies**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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Pour prix, voir catalogue en vigueur  
For price, see current catalogue

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIO FREQUENCY AND COAXIAL  
CABLE ASSEMBLIES –****Part 4: Sectional specification for  
semi-rigid 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, 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 60966-4 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 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/551/FDIS	46A/567/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 sectional 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*

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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## RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

### Part 4: Sectional specification for semi-rigid coaxial cable assemblies

#### 1 Scope

This part of IEC 60966 is a sectional specification that relates to semi-rigid coaxial cable assemblies operating in the transverse electromagnetic mode (TEM). It establishes uniform requirements for testing the electrical, mechanical and climatic properties of semi-rigid cable assemblies composed of semi-rigid coaxial cables and coaxial connectors.

NOTE 1 The numbering of the Clauses is the same as in the generic specification.

NOTE 2 For the purpose of this sectional specification, a cable assembly is always regarded as an integral unit. All specifications apply to the finished assembly and not to individual and non-assembled parts thereof.

NOTE 3 This sectional specification should be supplemented with detail specifications giving additional details as required by the particular application. This application will not necessarily require all tests.

#### 2 Normative references

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.

IEC 60096-2:1988, *Radio-frequency cables – Part 2: Relevant cable specifications*

IEC 60410:1973, *Sampling plans and procedures for inspection by attributes*

IEC 60966-1:1999, *Radio-frequency and coaxial cable assemblies – Part 1: Generic specification – General requirements and test methods*

IEC 61169 (all parts), *Radio-frequency connectors*

IEC 61196 (all parts), *Radio-frequency cables*

ISO 9000, *Quality management systems – Fundamentals and vocabulary*

#### 3 Definitions

For the purposes of this document, the definitions given in IEC 60966-1 apply.