### SLOVENSKI STANDARD

SIST EN 60966-3:2004

april 2004

Radio frequency and coaxial cable assemblies - Part 3: Sectional specification for semi-flexible coaxial cable assemblies (IEC 60966-3:2003)

## iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 60966-3:2004</u> https://standards.iteh.ai/catalog/standards/sist/446ff13e-ffed-49a8-97fb-9fb1ad1b62f1/sist-en-60966-3-2004

ICS 33.120.10

Referenčna številka SIST EN 60966-3:2004(en)

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 60966-3:2004 https://standards.iteh.ai/catalog/standards/sist/446ff13e-ffed-49a8-97fb-9fb1ad1b62f1/sist-en-60966-3-2004

### **EUROPEAN STANDARD**

### EN 60966-3

### NORME EUROPÉENNE

### **EUROPÄISCHE NORM**

October 2003

ICS 33.120.10

Supersedes EN 60966-3:1994

English version

## Radio frequency and coaxial cable assemblies Part 3: Sectional specification for semi-flexible coaxial cable assemblies (IEC 60966-3:2003)

Ensembles de cordons coaxiaux et de cordons pour fréquences radioélectriques Partie 3: Spécification intermédiaire pour cordons coaxiaux semi-flexibles (CEI 60966-3:2003)

Konfektionierte Koaxial- und Hochfrequenzkabel Teil 3: Rahmenspezifikation für halbflexible konfektionierte Koaxialkabel (IEC 60966-3:2003)

### 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/548/FDIS, future edition 2 of IEC 60966-3, 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 60966-3 on 2003-10-01.

This European Standard supersedes EN 60966-3:1994.

The major change with respect to EN 60966-3:2003 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. (Standards.iteh.ai)

#### Endorsement notice

https://standards.iteh.ai/catalog/standards/sist/446ff13e-ffed-49a8-97fb-

The text of the International Standard IEC 60966-3:2003 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>	EN/HD	<u>Year</u>
IEC 60068-2-6	- 1)	Environmental testing Part 2: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	1995 2)
IEC 60096-2	1988	Radio-frequency cables - Part 2: Relevant cable specifications	- 	-
IEC 60169	Series	Radio-frequency connectors (standards.iteh.ai)	HD 134 EN 60169	Series Series
IEC 60410	1973 https://star	Sampling plans and procedures for inspection by attributes address tensor standards sixt/446ff13e-ffed-49	- a8-97fb-	-
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)

٠

<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

# iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 60966-3:2004 https://standards.iteh.ai/catalog/standards/sist/446ff13e-ffed-49a8-97fb-9fb1ad1b62f1/sist-en-60966-3-2004

## **NORME** INTERNATIONALE INTERNATIONAL **STANDARD**

CEI **IEC** 60966-3

Deuxième édition Second edition 2003-08

Ensembles de cordons coaxiaux et de cordons pour fréquences radioélectriques -

Partie 3:

Spécification intermédiaire pour cordons coaxiaux semi-flexibles

(standards.iteh.ai)

Radio frequency and coaxial cable assemblies -

https://tandards.iteh.ai/catalog/standards/sist/446ff13e-ffed-49a8-97fb-9fb1ad1b62f1/sist-en-60966-3-2004 Sectional specification for semi-flexible coaxial cable assemblies

© IEC 2003 Droits de reproduction réservés — Copyright - all rights reserved

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Electrotechnical Commission, 3, rue de Varembé, PO Box 131, CH-1211 Geneva 20, Switzerland Telephone: +41 22 919 02 11 Telefax: +41 22 919 03 00 E-mail: inmail@iec.ch Web: www.iec.ch



CODE PRIX PRICE CODE

### CONTENTS

FO	REWORD	5		
1	Scope	9		
2	Normative references	9		
3	Definitions	11		
4	Design and manufacturing requirements	11		
5	Workmanship, marking and packaging	13		
6	Quality assessment	15		
7	Test methods – General	15		
8	Electrical tests	15		
9	Mechanical robustness tests	17		
10	Environmental tests	17		
11	Specialized test methods	19		
12	Test schedules	19		
Bib	liographyiTeh STANDARD PREVIEW	37		
Fig	ure 1 –Length definition of cable assemblies	13		
Fig	ure 2 – Example of a cable assemblys TEN 60966-3:2004·····	13		
	ure 3 – Preferred aprangement for ithe lyibration litest 446ffl 3e-ffed-49a8-97fb- 9fb1ad1b62fl/sist-en-60966-3-2004			
Tab	ole 1 – Grouping of tests for specification purposes	21		
	able 2 – Test schedule			

#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

### RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

### Part 3: Sectional 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, 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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user. Standards.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter. https://standards.itch.ai/catalog/standards/sist/446ii13e-ffed-49a8-97fb-
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 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 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/548/FDIS	46A/564/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.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 60966-3:2004</u> https://standards.iteh.ai/catalog/standards/sist/446ff13e-ffed-49a8-97fb-9fb1ad1b62f1/sist-en-60966-3-2004

## RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

## Part 3: Sectional specification for semi-flexible coaxial cable assemblies

### 1 Scope

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

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.

SIST EN 60966-3:2004

IEC 60068-2-6, Environmental testing cat part 2. Tests to Fed Vibration (sinusoidal) 9fb1ad1b62f1/sist-en-60966-3-2004

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

IEC 60169 (all parts), Radio-frequency connectors

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