SLOVENSKI STANDARD

SIST EN 60966-2-5:2004

april 2004

Radio frequency and coaxial cable assemblies - Part 2-5: Detail specification for cable assemblies for radio and TV receivers - Frequency range 0 to 1.000 MHz, IEC 61169-2 connectors (IEC 60966-2-5:2003)

iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>SIST EN 60966-2-5:2004</u> https://standards.iteh.ai/catalog/standards/sist/54189240-d8ed-4189-9509-a80543104837/sist-en-60966-2-5-2004

ICS 33.120.10

Referenčna številka SIST EN 60966-2-5:2004(en)

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EUROPEAN STANDARD

EN 60966-2-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2003

ICS 33.120.10

Supersedes EN 60966-2-5:1999

English version

Radio frequency and coaxial cable assemblies Part 2-5: Detail specification for cable assemblies for radio and TV receivers -Frequency range 0 to 1 000 MHz, IEC 61169-2 connectors (IEC 60966-2-5:2003)

Ensemble de cordons coaxiaux et de Konfektionierte Koaxial- und cordons pour fréquences radioélectriques Hochfrequenzkabel Teil 2-5: Bauartspezifikation für Partie 2-5: Spécification particulière pour cordons de connexion konfektionierte Kabel für Ton- und de récepteurs TV ou radio - ou Fernsehrundfunkempfänger -Bande de fréquences de 0 à 1 000 MHz, Frequenzbereich 0 bis 1 000 MHz, (standards.iteHEGi60169-2 Steckverbinder connecteurs CEI 61169-2 (CEI 60966-2-5:2003) (IEC 60966-2-5:2003)

<u>SIST EN 60966-2-5:2004</u> https://standards.iteh.ai/catalog/standards/sist/54189240-d8ed-4189-9509-a80543104837/sist-en-60966-2-5-2004

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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

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Foreword

The text of document 46A/509/FDIS, future edition 2 of IEC 60966-2-5, 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 60966-2-5 on 2003-05-01.

This European Standard supersedes EN 60966-2-5:1999.

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)	2004-02-01
-	latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2006-05-01

Endorsement notice

The text of the International Standard IEC 60966-2-5:2003 was approved by CENELEC as a European Standard without any modification.

In the official version, for the Introduction, the following notes have to be added for the standards indicated:

IEC 60966-1	NOTE	Harmonized as EN 60966-1:1999 (not modified).
IEC 60966-2-1	NOTE	Harmonized as EN 60966-2-1:1995 (not modified). SIST EN 60966-2-5:2004
IEC 60966-2-2	httpNØJtEn	Harmonizedtas EN 60966-2-2/19949(nbt-modified).9-
IEC 61169-2		9509-a80543104837/sist-en-60966-2-5-2004 Harmonized as EN 61169-2:2001 (not modified).

INTERNATIONAL STANDARD



Second edition 2003-03

Radio frequency and coaxial cable assemblies –

Part 2-5:

Detail specification for cable assemblies for radio and TV receivers - Frequency range 0 to 1 000 MHz, IEC 61169-2 connectors

(standards.iteh.ai)

Ensemble de cordons coaxiaux et de cordons pour fréquences radioélectriques – https://standards.iteh.ai/catalog/standards/sist/54189240-d8ed-4189-

Partie02-39.0543104837/sist-en-60966-2-5-2004

Spécification particulière pour cordons de connexion de récepteurs TV ou radio – Bande de fréquences de 0 à 1 000 MHz, connecteurs CEI 60169-2

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES -

Part 2- 5: Detail specification for cable assemblies for radio and TV receivers – Frequency range 0 to 1 000 MHz, IEC 61169-2 connectors

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 the 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 National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
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- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards ind
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60966-2-5 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 1998, of which it constitutes a technical revision.

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

FDIS	Report on voting
46A/509/FDIS	46A/542/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.

The committee has decided that the contents of this publication will remain unchanged until 2006. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this standard may be issued at a later date.

INTRODUCTION

This detail specification applies to flexible coaxial cables described in IEC 60096-2. It relates to cable assemblies for radio and TV receivers, and in particular to the cable subfamily 9.52.

This detail specification should be used together with the following IEC publications.

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

IEC 60966-2-1:1991, Radio frequency and coaxial cable assemblies – Part 2-1: Sectional specification for flexible coaxial cable assemblies

IEC 60966-2-2:1992, Radio frequency and coaxial cable assemblies – Part 2-2: Blank detail specification for flexible coaxial cable assemblies

IEC 61169-2:2001, Radio frequency connectors – Part 2: Sectional specification – Radio frequency coaxial connectors of type 9,52

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

IEC 61022:1989, Interconnection of radio and TV receivers to feeder system outlets

IEC 61196-1:1995, Radio-frequency cables R Part R. Generic specification – General, definitions, requirements and test methods (standards.iteh.ai)

<u>SIST EN 60966-2-5:2004</u> https://standards.iteh.ai/catalog/standards/sist/54189240-d8ed-4189-9509-a80543104837/sist-en-60966-2-5-2004



[16]	[17]	[18]	[19]				
Inspection values, Ratings or Characteristics	Clause	Value	Remarks				
Electrical							
Reflection properties	8.1	> 20 dB > 15 dB > 12 dB	5 MHz to 400 MHz 400 MHz to 862 MHz 862 MHz to 1 GHz				
Operational attenuation (Insertion loss)	8.3	< 0,08 + 0,4 dB/m	up to 1 GHz				
Screening effectiveness:							
Transfer impedance Class A Class B	12.1, 12.2 of IEC 61196-1 further tests UC (under consideration)	5 mΩ/m UC	5 MHz				
Screening attenuation Class A Class B	8.9 (further tests UC)	> 85 dB > 75 dB	30 MHz to 1 GHz				
Voltage proof	8.10	1,0 kV	50 Hz peak value				
Insulation resistance	8.11	10 ⁵ ΜΩ	Test voltage 500 V				
Inner and outer conductor continuity	8.12	ОК	Low voltage DC				
Mechanical ITEH STANDARD PREVIEW							
Tensile	(standar	ds.it & №.ai)	Interface OK Duration 1 min Test 8.12				
Flexure https://sta	<u>S§S2T EN 60</u> andards.iteh.ai/catalog/sta	966-2500000000000000000000000000000000000	Force 5 N 20/min 18ed-4189- Test 8.9				
Flexing endurance	9509-a805 <u>93</u> 104837/	sist-en-20 cycles 5-200	4 Test 8.12 and 8.9				
Cable assembly crushing	9.4	700 N	Test 8.3				

Under qualification approval, the qualification shall be conducted in accordance with 13.3 of IEC 60966-2-1 taking into account the specified variants. Only the tests whose results might depend on the variants shall be repeated.

Under capability approval, the qualification shall be conducted on the relating CQCs as defined in 13.4 of IEC 60966-2-1 and described in the capability manual (CM). Unless otherwise specified in the CM, only lot by lot tests from groups Ba and Eb shall be conducted on delivered products, all other tests shall be performed on CQCs as defined in 13.4 of IEC 60966-2-1 and described in the CM.