SVENSK STANDARD SS-EN 60966-2-2

Fastställd	Utgåva	Sida	Ansvarig kommitté
2003-12-15	2	1 (1+11)	SEK TK 46

Koaxialkablar för högfrekvens med påmonterade anslutningsdon – Del 2-2: Förlaga till detaljspecifikation för koaxialkablar med påmonterade anslutningsdon

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

Som svensk standard gäller europastandarden EN 60966-2-2:2003. Den svenska standarden innehåller den officiella engelska språkversionen av EN 60966-2-2:2003.

Nationellt förord

Europastandarden EN 60966-2-2:2003*)

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 60966-2-2, Second edition, 2003 - Radio frequency and coaxial cable assemblies - Part 2-2: Blank detail specification for flexible coaxial cable assemblies**

utarbetad inom International Electrotechnical Commission, IEC.

Standarden ska användas tillsammans med SS-EN 60966-1, utgåva 2, 1999 och SS-EN 60966-2-1, utgåva 2, 2003.

Tidigare fastställd svensk standard SS-EN 60966-2-2, utgåva 1, 1995.

*) EN 60966-2-2:2003 ikraftsattes 2003-12-15 som SS-EN 60966-2-2 genom offentliggörande, d v s utan utgivning av något svenskt dokument.

ICS 33.120.10

Denna standard är fastställd av SEK Svensk Elstandard,
som också kan lämna upplysningar om **sakinnehållet** i standarden.
Postadress: Box 1284, 164 29 KISTA
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Standarder underlättar utvecklingen och höjer elsäkerheten

Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

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Många standarder inom elområdet beskriver tekniska lösningar och metoder som åstadkommer den elsäkerhet som föreskrivs av svenska myndigheter och av EU.

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SEK samordnar svenska intressenters medverkan i SEKs tekniska kommittéer och stödjer svenska experters medverkan i internationella och europeiska projekt.

Stora delar av arbetet sker internationellt

Utformningen av standarder sker i allt väsentligt i internationellt och europeiskt samarbete. SEK är svensk nationalkommitté av International Electrotechnical Commission (IEC) och Comité Européen de Normalisation Electrotechnique (CENELEC).

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Var med och påverka!

Den som deltar i SEKs tekniska kommittéarbete har möjlighet att påverka framtida standarder och får tidig tillgång till information och dokumentation om utvecklingen inom sitt teknikområde. Arbetet och kontakterna med kollegor, kunder och konkurrenter kan gynnsamt påverka enskilda företags affärsutveckling och bidrar till deltagarnas egen kompetensutveckling.

Du som vill dra nytta av dessa möjligheter är välkommen att kontakta SEKs kansli för mer information.

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EUROPEAN STANDARD **EN 60966-2-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM October 2003

ICS 33.120.10 Supersedes EN 60966-2-2:1994

English version

Radio frequency and coaxial cable assemblies
Part 2-2: Blank detail specification for flexible coaxial cable assemblies
(IEC 60966-2-2:2003)

Ensembles de cordons coaxiaux et de cordons pour fréquences radioélectriques
Partie 2-2: Spécification particulière cadre pour cordons coaxiaux souples
(CEI 60966-2-2:2003)

Konfektionierte Koaxial- und Hochfrequenzkabel
Teil 2-2: Vordruck für Bauartspezifikation für flexible konfektionierte Koaxialkabel
(IEC 60966-2-2:2003)

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

Ref. No. EN 60966-2-2:2003 E

SEK Svensk Elstandard

Foreword

The text of document 46A/546/FDIS, future edition 2 of IEC 60966-2-2, 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 60966-2-2 on 2003-10-01.

This European Standard supersedes EN 60966-2-2:1994.

The major change with respect to EN 60966-2-2:1994 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 60966-2-1:2003, *Radio frequency and coaxial cable assemblies – Part 2-1: Sectional specification for flexible coaxial cable assemblies*.

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Endorsement notice

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

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

Part 2-2: Blank detail specification for 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.
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International Standard IEC 60966-2-2 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 change 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/546/FDIS	46A/562/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 60966-2-1: 2003, *Radio frequency and coaxial cable assemblies – Part 2-1: Sectional specification for flexible 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.

INTRODUCTION

This part of IEC 60966 is a blank detail specification that relates to flexible 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, 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 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 detail 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] 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 length 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, 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.

[22] Periodicity of the test. The periodic tests apply only in the case of qualification approval.

[23] Inspection level selected from IEC 60410.

[24] Acceptable quality level selected from IEC 60410.

[25] Sample size.

[26] Acceptance criteria.

[27] Test specimen length shall be specified if the length is different to that given in box [6] on page 1 of the blank detail specification or if the length in box [6] is left free with the parameter “l”.