SLOVENSKI STANDARD
SIST EN 60966-3-2:2001

01-februar-2001

Radio frequency and coaxial cable assemblies - Part 3-2: Detail specification for semi-flexible coaxial cable assemblies for GSM use (0,8 GHz - 1 GHz) (IEC 60966-3-2:1996)

Radio frequency and coaxial cable assemblies -- Part 3-2: Detail specification for semi-flexible coaxial cable assemblies for GSM use (0,8 GHz - 1 GHz)

Konfektionierte Koaxial- und Hochfrequenzkabel -- Teil 3-2: Bauartspezifikation für halbflexible konfektionierte Koaxialkabel für GSM-Anwendungen (0,8 GHz - 1 GHz)

Ensemble de cordons caoxiaux et de cordons pour fréquences radioélectriques -- Partie 3-2: Spécification particulière pour cordons coaxiaux semi-flexibles pour applications GSM (0,8 GHz - 1 GHz)

Ta slovenski standard je istoveten z: **EN 60966-3-2:1999**

ICS:

33.120.10 Koaksialni kabli. Valovodi Coaxial cables. Waveguides

SIST EN 60966-3-2:2001 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60966-3-2

February 1999

ICS 33.120.10

English version

Radio frequency and coaxial cable assemblies
Part 3-2: Detail specification for semi-flexible coaxial cable assemblies for GSM use (0,8 GHz - 1 GHz)
(IEC 60966-3-2:1996)

Ensemble de cordons caoxiaux et de cordons pour fréquences radioélectriques
Partie 3-2: Spécification particulière pour cordons coaxiaux semi-flexibles pour applications GSM (0,8 GHz - 1 GHz)
(CEI 60966-3-2:1996)

Konfektionierte Koaxial- und Hochfrequenzkabel
Teil 3-2: Bauartspezifikation für halbflexible konfektionierte Koaxialkabel für GSM-Anwendungen (0,8 GHz - 1 GHz)
(IEC 60966-3-2:1996)

This European Standard was approved by CENELEC on 1999-01-01. 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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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 60966-3-2:1999 E

1999-02-24

Foreword

The text of the International Standard IEC 60966-3-2:1996, prepared by SC 46A, Coaxial cables, of IEC TC 46, Cables, wires, waveguides, R.F. connectors, and accessories for communication and signalling, was submitted to the formal vote and was approved by CENELEC as EN 60966-3-2 on 1999-01-01 without any modification.

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) 2000-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2000-01-01

This standard is to be used in conjunction with EN 60966-1:1993 and EN 60966-3:1994.

Endorsement notice

The text of the International Standard IEC 60966-3-2:1996 was approved by CENELEC as a European Standard without any modification.

NORME INTERNATIONALE

INTERNATIONAL STANDARD

CEI
IEC
966-3-2

Première édition
First edition
1996-08

Ensemble de cordons coaxiaux et de cordons pour fréquences radioélectriques –

Partie 3-2: Spécification particulière pour cordons coaxiaux semi-flexibles pour applications GSM (0,8 GHz – 1 GHz)

Radio frequency and coaxial cable assemblies –

Part 3-2: Detail specification for flexible coaxial cable assemblies for GSM use (0,8 GHz – 1 GHz)

Bureau central de la Commission Electrotechnique Internationale 3, rue de Varembé Genève Suisse

Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE
E

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

RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –

Part 3-2: Detail specification for semi-flexible coaxial cable assemblies for GSM use (0,8 GHz – 1 GHz)

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 reports or guides and they are accepted by the National Committees in that sense.

4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.

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.

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 966-3-2 has been prepared by sub-committee 46A: Coaxial cables, of IEC technical committee 46: Cables, wires, waveguides, r.f. connectors and accessories for communication and signalling.

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

FDIS	Report on voting
46A/254/FDIS	46A/266/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.

INTRODUCTION

This detail specification relates to the subfamily of coaxial cables and connector assemblies operating in the frequency range of GSM (0,8 Ghz – 1 GHz)

They are designed with cable with a diameter of 13 mm and connectors from IEC 169-4 (type 7-16).

This detail specification should be used together with IEC 966-3 and IEC 966-1.

It gives subfamily requirements and severities to be applied.

Under Qualification Approval, the qualification will be conducted in accordance with 13.3 of IEC 966-6 taking into account the specified variants. Only the tests whose results might depend on the variants will be repeated.

Under Capability Approval, the Qualification will be conducted on the relating CQCs as defined in 13.4 of IEC 966-3 and described in the CM. Unless otherwise specified in the CM, only lot-by-lot tests from groups Ba and Eb will be conducted on delivered products, all other tests will be performed on CQCs as defined in 13.4 of IEC 966-3 and described in the CM.

Reference document:

IEC 169-4:1975, *Radio-frequency connectors – Part 4: R.F. coaxial connectors with inner diameter of outer conductor 16 mm (0,63 in) with screw lock – Characteristic impedance 50 ohms (type 7-16)*

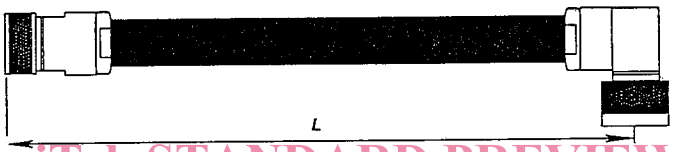
[1] Elaboré par Prepared by IEC SC 46A	IEC	[2] Document n° 966-3-2 Indice/Issue: First Issue Date: 30/07/96
[3] Disponible auprès de: Available from: IEC/CEI 3 rue de Varembé Genève Suisse		[4] Spécification générique: CEI/IEC 966-1 Generic specification: Spécification intermédiaire: CEI/IEC 966-3 Sectional specification Spécification particulière cadre: CEI/IEC 966-3-1 Blank detail specification:

[5] Références complémentaires: CEI/IEC 169-4
Additional references:

Spécification particulière pour cordons coaxiaux semi-flexibles pour applications GSM (0,8 GHz – 1 GHz)

Detail specification for semi-flexible coaxial assemblies for GSM use (0,8 GHz – 1 GHz)

[6]



[7] Impédance caractéristique: 50 Ω Characteristic impedance:	[8] Bande de fréquence: 0,8 GHz à/to 1 Ghz Frequency range:
[9] Masse: 200 g/m + 180 g/m Weight:	[10] Rayon de courbure minimal: Minimum inside radius: – pour les pliages statiques 30 mm for static bending – pour les pliages dynamiques 180 mm for dynamic bending
[11] Catégorie climatique: 40/70/21 Climatic category:	[12] Groupes d'essais applicables: Ba, Eb, Eh, Ee, Et, Mn, Vv, Vc, Vt, Vf Applicable test group:

[13]	a	b	c
Connecteur/Connector type	IEC 169-4(7-16) Fiche droite/Straight plug	IEC 169-4(7-16) Fiche droite/Straight plug	IEC 169-4(BNC) Fiche coudée/Right angle plug
Type de câble/Cable type	13 mm	13 mm	13 mm

Méthode de marquage/Marking method: Manchons/Marking sleeves

Marquage/Marking text: Identification du fabricant et référence CEI/Manufacturer identification and IEC reference: 966-3-2

[14] Variantes/variants 1 a-a 2 c-c 3 a-b 4 b-c	[15] Page 1 sur 5 pages Page 1 of 5 pages

[16] Valeurs et caractéristiques à respecter Inspection values, ratings or characteristics	[17] Paragraphe Subclause	[18] Valeur Value	[19] Remarques Remarks
Electrique/Electrical			
Caractéristiques de réflexion Reflection properties	9.1	> 26dB	0,8 GHz à/to 1 Ghz des deux extrémités/ from both ends
Pertes d'insertion Insertion loss	9.3	< 0,2 dB/m	à/at 1 GHz à/at 25 °C
Stabilité des pertes d'insertion Insertion loss stability	9.4	< 0,1 dB	à/at 1 GHz à/at 25°C 5 tours/cycles 100 mm
Temps de propagation Propagation time	9.5	< 8,3 ns/m	800–900 MHz
Efficacité d'écran Screening effectiveness	9.9	> 110 dB	Jusqu'à/Up to 1 GHz
Tension de tenue Voltage proof	9.10	2,5 kV	Valeur crête 50 Hz Peak value
Résistance d'isolement Insulation resistance	9.11	10^5 MΩ	Tension d'essai/Test voltage 500 V, 1 min
Continuité du conducteur intérieur et du conducteur extérieur Inner and outer conductor continuity	9.12	OK/ non/ no	Basse tension continue/Low voltage d.c.
Puissance nominale Power rating	9.14	Under consideration	
Niveau d'intermodulation Intermodulation level	9.5	Under consideration	
Mécanique/Mechanical			
Traction Tensile	10.1	interface OK/non/no	280 N Durée/duration 3 mn ROS/Return loss > 26 dB
Ecrasement du câble Cable crushing	10.4	interface OK/non/no	70 N ROS/Return loss > 26 dB
Couple Torque	10.5	interface OK/non/no	> 4 Nm ROS/Return loss > 26 dB
Pliages multiples Multiple bending	10.6	interface OK/non/no	20 cycles, r = 100 mm ROS/Return loss > 26 dB