
Radio frequency and coaxial cable assemblies - Part 2-3: Detail specification for flexible coaxial cable assemblies (IEC 60966-2-3:2003)

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EUROPEAN STANDARD

EN 60966-2-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2003

ICS 33.120.10

Supersedes EN 60966-2-3:1999

English version

Radio frequency and coaxial cable assemblies
Part 2-3: Detail specification for flexible coaxial cable assemblies
(IEC 60966-2-3:2003)

Ensembles de cordons coaxiaux
et de cordons pour fréquences
radioélectriques
Partie 2-3: Spécification particulière
pour cordons coaxiaux souples
(CEI 60966-2-3:2003)

Konfektionierte Koaxial- und
Hochfrequenzkabel
Teil 2-3: Bauartspezifikation
für flexible konfektionierte Koaxialkabel
(IEC 60966-2-3:2003)

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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/547/FDIS, future edition 2 of IEC 60966-2-3, 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 60966-2-3 on 2003-10-01.

This European Standard supersedes EN 60966-2-3:1999.

The major change with respect to EN 60966-2-3:1999 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 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*, with EN 60966-2-1:2003, *Radio frequency and coaxial cable assemblies – Part 2-1: Sectional specification for flexible coaxial cable assemblies* and with EN 60966-2-2:2003, *Radio frequency and coaxial cable assemblies – Part 2-2: Blank detail specification for flexible coaxial cable assemblies*.

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Endorsement notice

The text of the International Standard IEC 60966-2-3:2003 was approved by CENELEC as a European Standard without any modification.

NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

60966-2-3

Deuxième édition
Second edition
2003-07

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

**Partie 2-3:
Spécification particulière pour cordons
coaxiaux souples**

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Radio frequency and coaxial cable assemblies –

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**Part 2-3:
Detail specification for flexible coaxial
cable assemblies**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –**Part 2-3: Detail specification for flexible
coaxial cable assemblies**

FOREWORD

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International Standard IEC 60966-2-3 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 1996.

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/547/FDIS	46A/563/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 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*, with IEC 60966-2-1: 2003, *Radio frequency and coaxial cable assemblies – Part 2: Sectional specification for flexible coaxial cable assemblies* and with IEC 60966-2-2:2003, *Radio frequency and coaxial cable assemblies – Part 2-2: Blank detail 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.

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INTRODUCTION

This part of IEC 60966 is a detail specification that relates to the subfamily of flexible coaxial cables and BNC connector assemblies.

This detail specification gives subfamily requirements and severities which should be applied .

Under Qualification Approval, the qualification will be conducted in accordance with 12.2 of IEC 60966-2-1 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 12.3 of IEC 60966-2-1 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 12.3 of IEC 60966-2-1 and described in the CM.


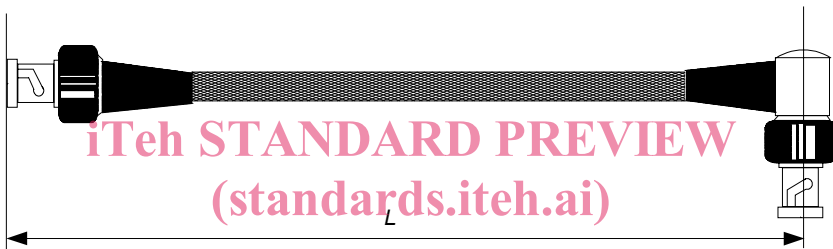
Reference document:

IEC 60169-8:1978, *Radio-frequency connectors – Part 8: RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with bayonet lock – Characteristic impedance 50 ohms (type BNC)*

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[1] Prepared by IEC SC 46A		[2] Document 60966-2-3 Issue: Second issue Date:															
[3] Available from: IEC/CEI 3, rue de Varembé Genève Suisse	[4] Generic specification IEC 60966-1 Sectional specification: IEC 60966-2-1 Blank detail specification: IEC 60966-2-2																
[5] Additional references: IEC 60169-8																	
Detail specification for flexible coaxial cable assemblies																	
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[7] Characteristic impedance: 50 Ω	[8] Frequency range: 0 GHz to 1 GHz																
[9] Weight: 40 g/m + 37 g/m	[10] Minimum inside radius: – for static bending 20 mm – for dynamic bending 75 mm																
[11] Climatic category: 40/70/21	[12] Applicable test group: Ba, Eb, Ez, Mn																
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 40%; text-align: center;">a</th> <th style="width: 40%; text-align: center;">b</th> </tr> </thead> <tbody> <tr> <td>[13] Connector type</td> <td style="text-align: center;">IEC 60169-8 (BNC) Straight plug</td> <td style="text-align: center;">IEC 60169-8 (BNC) Right-angle plug</td> </tr> <tr> <td>Cable type</td> <td style="text-align: center;">96 IEC 50-3-1 or equivalent</td> <td style="text-align: center;">96 IEC 50-3-1 or equivalent</td> </tr> <tr> <td>Marking:</td> <td colspan="2" style="text-align: center;">Optional</td> </tr> <tr> <td>Taper sleeves:</td> <td colspan="2" style="text-align: center;">On both ends (colour optional)</td> </tr> </tbody> </table>				a	b	[13] Connector type	IEC 60169-8 (BNC) Straight plug	IEC 60169-8 (BNC) Right-angle plug	Cable type	96 IEC 50-3-1 or equivalent	96 IEC 50-3-1 or equivalent	Marking:	Optional		Taper sleeves:	On both ends (colour optional)	
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Marking:	Optional																
Taper sleeves:	On both ends (colour optional)																
[14] Variants	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;">1</td> <td>a-a</td> </tr> <tr> <td>2</td> <td>a-b</td> </tr> <tr> <td>3</td> <td>b-b</td> </tr> </table>	1	a-a	2	a-b	3	b-b										
1	a-a																
2	a-b																
3	b-b																
		[15] Page 1 of 3 pages															