

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Radio frequency and coaxial cable assemblies –
Part 2-4: Detail specification for cable assemblies for radio and TV receivers –
Frequency range 0 MHz to 3 000 MHz, IEC 61169-2 connectors**

**Cordons coaxiaux et cordons pour fréquences radioélectriques –
Partie 2-4: Spécification particulière relative aux cordons pour récepteurs de
télévision ou radio – Plage de fréquences de 0 MHz à 3 000 MHz, connecteurs
IEC 61169-2**



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RADIO FREQUENCY AND COAXIAL CABLE ASSEMBLIES –**Part 2-4: Detail specification for cable
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FOREWORD

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International Standard IEC 60966-2-4 has been prepared by IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

This fourth edition cancels and replaces the third edition published in 2009 and constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition.

- a) The return loss requirements and insertion loss requirements are matched to the relevant cables.
- b) Screening effectiveness shall be measured according to IEC 62153-4-7, triaxial method.
- c) Screening class B was cancelled.

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

FDIS	Report on voting
46/599/FDIS	46/600/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 part of IEC 60966 is to be read in conjunction with IEC 60966-1:1999, IEC 60966-2-1:2008 and IEC 60966-2-2:2003.

A list of all parts of the IEC 60966 series, under the general title: *Radio frequency and coaxial cable assemblies*, can be found on the IEC website.

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 the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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INTRODUCTION

This part of IEC 60966 is a detail specification which applies to flexible coaxial cables described in the IEC 61196 series. It relates to cable assemblies for radio and TV receivers, and in particular to the cable assemblies subfamily 9,52 (IEC 61169-2). These cable assemblies are used as described in IEC 60728-4.

This part of IEC 60966 gives subfamily requirements and severities which shall be applied.

Under qualification approval, the qualification will be conducted in accordance with 12.2 of IEC 60966-2-1:2008 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 related capability qualifying components (CQCs) as defined in 12.3 of IEC 60966-2-1:2008 and described in the capability manual (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 60966-2-1:2008 and described in the CM.

Reference documents

IEC 60728-4, *Cable networks for television signals, sound signals and interactive services – Part 4: Passive wideband equipment for coaxial cable networks*

IEC 60966-1, *Radio frequency and coaxial cable assemblies – Part 1: Generic specification – General requirements and test methods*

IEC 60966-2-1:2008, *Radio frequency and coaxial cable assemblies – Part 2-1: Sectional specification for flexible coaxial cable assemblies*

IEC 60966-2-2:2003, *Radio frequency and coaxial cable assemblies – Part 2-2: Blank detail specification for flexible coaxial cable assemblies*

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

IEC 61196-6, *Coaxial communication cables – Sectional specification for CATV drop cables*

IEC 62153-4-7, *Metallic communication cable test methods – Part 4-7: Electromagnetic compatibility (EMC) – Test method for measuring the transfer impedance and the screening or the coupling attenuation – Tube in tube method*