



**NSAI**  
Standards

Irish Standard  
I.S. EN 60966-2-4:2016

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

**I.S. EN 60966-2-4:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 60966-2-4:2016 is the adopted Irish version of the European Document EN 60966-2-4:2016, 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

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EUROPEAN STANDARD

**EN 60966-2-4**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2016

ICS 33.120.10

Supersedes EN 60966-2-4:2009

English Version

**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  
(IEC 60966-2-4:2016)**

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  
(IEC 60966-2-4:2016)

Konfektionierte Koaxial- und Hochfrequenzkabel - Teil 2-4:  
Bauartspezifikation für konfektionierte Kabel für Ton- und  
Fernsehrundfunkempfänger - Frequenzbereich 0 MHz bis 3  
000 MHz, Steckverbinder nach IEC 61169-2  
(IEC 60966-2-4:2016)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN 60966-2-4:2016**

**European foreword**

The text of document 46/599/FDIS, future edition 4 of IEC 60966-2-4, prepared by 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 approved by CENELEC as EN 60966-2-4:2016.

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publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2019-06-22  
standards conflicting with the  
document have to be withdrawn

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**Annex ZA**

(normative)

**Normative references to international publications  
with their corresponding European publications**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60728-4	-	Cable networks for television signals, sound signals and interactive services -- Part 4: Passive wideband equipment for coaxial cable networks	EN 60728-4	-
IEC 60966-1	-	Radio frequency and coaxial cable assemblies -- Part 1: Generic specification - General requirements and test methods	EN 60966-1	-
IEC 60966-2-1	2008	Radio frequency and coaxial cable assemblies -- Part 2-1: Sectional specification for flexible coaxial cable assemblies	EN 60966-2-1	2009
IEC 60966-2-2	2003	Radio frequency and coaxial cable assemblies -- Part 2-2: Blank detail specification for flexible coaxial cable assemblies	EN 60966-2-2	2003
IEC 61169-2	-	Radio-frequency connectors -- Part 2: Sectional specification - Radio frequency coaxial connectors of type 9,52	EN 61169-2	-
IEC 61196-6	-	Coaxial communication cables - Part 6: Sectional specification for CATV drop cables	-	-
IEC 62153-4-7	-	Metallic communication cable test methods -- Part 4-7: Shielded screening attenuation test method for measuring the transfer impedance Z <sub>T</sub> and the screening attenuation a <sub>S</sub> or the coupling attenuation a <sub>C</sub> of RF-Connectors and assemblies up to and above 3 GHz, Tube in tube method	EN 62153-4-7	-

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**IEC 60966-2-4**

Edition 4.0 2016-05

# 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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**IEC 60966-2-4**

Edition 4.0 2016-05

# INTERNATIONAL STANDARD

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### **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**

### 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, Publicly Available Specifications (PAS) 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 60966-2-4 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*

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