



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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European Committee for Electrotechnical Standardization
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.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-03-22
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-06-22

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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.

<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 _T and the screening attenuation a _S or the coupling attenuation a _C 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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Edition 4.0 2016-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE



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IEC 61169-2**

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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

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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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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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.

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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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