



NSAI
Standards

Irish Standard
I.S. EN IEC 61169-64:2019

Radio frequency connectors - Part 64:
Sectional specification - RF coaxial
connectors with 0,8 mm inner diameter
of outer conductor - Characteristic
impedance 50 Ω (type 0,8)

I.S. EN IEC 61169-64:2019

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National Foreword

I.S. EN IEC 61169-64:2019 is the adopted Irish version of the European Document EN IEC 61169-64:2019, Radio frequency connectors - Part 64: Sectional specification - RF coaxial connectors with 0,8 mm inner diameter of outer conductor - Characteristic impedance 50 Ω (type 0,8)

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EUROPEAN STANDARD

EN IEC 61169-64

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2019

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English Version

**Radio frequency connectors - Part 64: Sectional specification -
RF coaxial connectors with 0,8 mm inner diameter of outer
conductor - Characteristic impedance 50 Ω (type 0,8)
(IEC 61169-64:2019)**

Connecteurs pour fréquences radioélectriques - Partie 64:
Spécification intermédiaire - Connecteurs RF coaxiaux avec
un conducteur extérieur disposant d'un diamètre intérieur
de 0,8 mm - Impédance caractéristique de 50 Ω (type 0,8)
(IEC 61169-64:2019)

Hochfrequenz-Steckverbinder - Teil 64:
Rahmenspezifikation für koaxiale HF-Steckverbinder mit 0,8
mm Innendurchmesser des Außenleiters -
Wellenwiderstand 50 Ω (Typ 0,8)
(IEC 61169-64:2019)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61169-64:2019 (E)

European foreword

The text of document 46F/469/FDIS, future edition 1 of IEC 61169-64, prepared by SC 46F "RF and microwave passive components" of IEC/TC 46 "Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61169-64:2019.

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) 2020-07-17
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where 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 61169-1 | 2013 | Radio frequency connectors - Part 1: Generic specification - General requirements and measuring methods | EN 61169-1 | 2013 |
| IEC 62037-3 | - | Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors | EN 62037-3 | - |

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IEC 61169-64

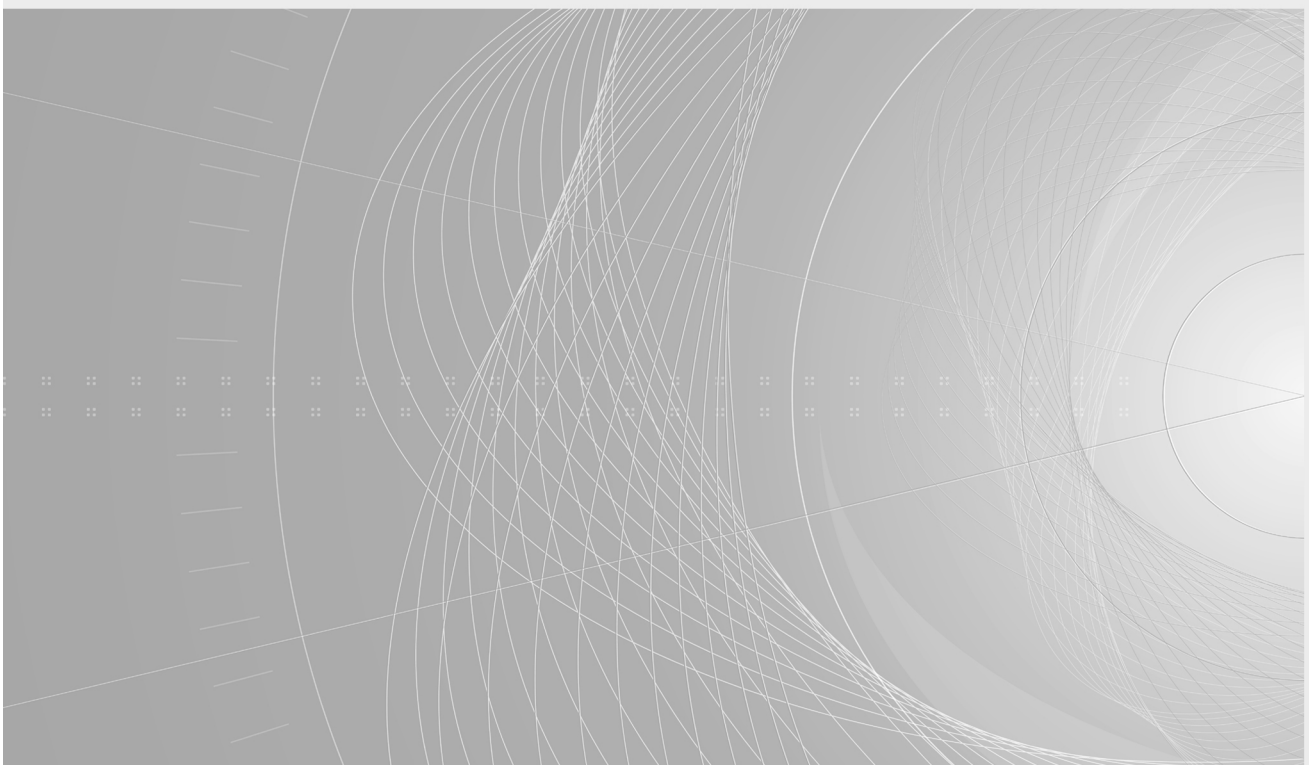
Edition 1.0 2019-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio-frequency connectors –
Part 64: Sectional specification – RF coaxial connectors with 0,8 mm inner
diameter of outer conductor – Characteristic impedance 50 Ω (type 0,8)**

**Connecteurs pour fréquences radioélectriques –
Partie 64: Spécification intermédiaire – Connecteurs RF coaxiaux avec un
conducteur extérieur disposant d'un diamètre intérieur de 0,8 mm – Impédance
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IEC 61169-64

Edition 1.0 2019-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio-frequency connectors –
Part 64: Sectional specification – RF coaxial connectors with 0,8 mm inner
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conducteur extérieur disposant d'un diamètre intérieur de 0,8 mm – Impédance
caractéristique de 50 Ω (type 0,8)**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

Part 64: Sectional specification – RF coaxial connectors with 0,8 mm inner diameter of outer conductor – Characteristic impedance 50 Ω (type 0,8)

FOREWORD

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International Standard IEC 61169-64 has been prepared by subcommittee 46F: RF and microwave passive components, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories.

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

| FDIS | Report on voting |
|--------------|------------------|
| 46F/469/FDIS | 46F/485/RVD |

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 61169 series, under the general title: *Radio-frequency connectors*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

RADIO-FREQUENCY CONNECTORS –

Part 64: Sectional specification – RF coaxial connectors with 0,8 mm inner diameter of outer conductor – Characteristic impedance 50 Ω (type 0,8)

1 Scope

This part of IEC 61169, which is a sectional specification (SS), provides information and rules for the preparation of detail specifications (DS) for IEC 61169 (all parts) coaxial connectors with 0,8 mm coupling.

The connectors are used with cables with characteristic impedance 50 Ω in an operating frequency range up to 145 GHz. The connectors are widely used in communications and measurements.

It describes the interface dimensions for general purpose connectors with gauging information and the mandatory tests selected from IEC 61169-1, applicable to all detail specifications relative to type 0,8 connectors.

This specification indicates the recommended performance characteristics to be considered when writing a DS and covers all tests schedules and inspection requirements.

NOTE Dimension are in mm, however original dimensions were in inches.

All un-dimensioned pictorial configurations are for reference purpose only.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61169-1:2013, *Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

IEC 62037-3, *Passive RF and microwave devices, intermodulation level measurement – Part 3: Measurement of passive intermodulation in coaxial connectors*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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