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Standards

Irish Standard  
I.S. EN 61169-52:2015

# Radio-frequency connectors - Part 52: Sectional specification for series MMCX RF coaxial connectors

**I.S. EN 61169-52:2015**

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

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NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

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EUROPEAN STANDARD

**EN 61169-52**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2015

ICS 33.120.30

Supersedes EN 122340:2002

English Version

**Radio-frequency connectors - Part 52: Sectional specification for  
series MMCX RF coaxial connectors  
(IEC 61169-52:2015)**

Connecteurs pour fréquences radioélectriques -  
Partie 52: Spécification intermédiaire relative aux  
connecteurs coaxiaux pour fréquences radioélectriques  
série MMCX  
(IEC 61169-52:2015)

Hochfrequenz-Steckverbinder -  
Teil 52: Rahmenspezifikation für koaxiale HF-  
Steckverbinder der Serie MMCX  
(IEC 61169-52:2015)

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Europäisches Komitee für Elektrotechnische Normung

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

**EN 61169-52:2015**

**European foreword**

The text of document 46F/314/FDIS, future edition 1 of IEC 61169-52, prepared by SC 46F "R.F. and microwave passive components" 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 approved by CENELEC as EN 61169-52:2015.

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) 2016-04-10
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-07-10

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**Annex ZA**  
(normative)**Normative references to international publications  
with their corresponding European publications**

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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 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 61169-1	2013	Radio-frequency connectors - Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	2013
IEC 62037	Series	Passive RF and microwave devices, intermodulation level measurement	EN 62037	Series

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**IEC 61169-52**

Edition 1.0 2015-06

# INTERNATIONAL STANDARD



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**Radio-frequency connectors –  
Part 52: Sectional specification for series MMCX RF coaxial connectors**





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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
Fax: +41 22 919 03 00  
[info@iec.ch](mailto:info@iec.ch)  
[www.iec.ch](http://www.iec.ch)

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**IEC 61169-52**

Edition 1.0 2015-06

# INTERNATIONAL STANDARD



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**Radio-frequency connectors –  
Part 52: Sectional specification for series MMCX RF coaxial connectors**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ICS 33.120.30

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## RADIO-FREQUENCY CONNECTORS –

## Part 52: Sectional specification for series MMCX RF coaxial connectors

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International Standard IEC 61169-52 has been prepared by subcommittee 46F: R.F. and microwave passive components, of IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories

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

FDIS	Report on voting
46F/314/FDIS	46F/320/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 publication 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 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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## RADIO-FREQUENCY CONNECTORS –

### Part 52: Sectional specification for series MMCX RF coaxial connectors

#### 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 RF coaxial connectors with snap-on coupling, typically for use in 50  $\Omega$  cable networks (MMCX).

It prescribes mating face dimensions for general purpose connectors – grade 2, dimensional details of standard test connectors-grade 0, gauging information and tests selected from IEC 61169-1, applicable to all detail specifications relating to series MMCX RF connectors.

This specification indicates recommended performance characteristics to be considered when writing a detail specification and it covers test schedules and inspection requirements for assessment levels M and H.

The MMCX miniature snap-on coupling structure series R.F. coaxial connector with the characteristic of normative impedance 50  $\Omega$  are used with various kinds of R.F cables and strips. The operating frequency limit is up to 6 GHz.

NOTE Metric dimension are original dimensions. All undimensioned pictorial configurations are for reference purpose only.

#### 2 Normative references

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.

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

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 62037 (all parts), *Passive RF and microwave devices, intermodulation level measurement*

#### 3 Mating face and gauge information

##### 3.1 Dimensions – General connectors – Grade 2

###### 3.1.1 Connector with pin centre contact

The mating face of connector with pin centre contact is shown in Figure 1 and its dimensions are shown in Table 1.



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