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Irish Standard  
I.S. EN 61169-48:2015

# Radio-frequency connectors - Part 48: Sectional specification for series BMP R.F. coaxial connectors

**I.S. EN 61169-48:2015**

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EUROPEAN STANDARD

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English Version

**Radio-frequency connectors - Part 48: Sectional specification for  
series BMP R.F. coaxial connectors  
(IEC 61169-48:2014)**

Connecteurs pour fréquences radioélectriques - Partie 48:  
Spécification intermédiaire relative aux connecteurs  
coaxiaux R.F. série BMP  
(IEC 61169-48:2014)

Hochfrequenz-Steckverbinder - Teil 48:  
Rahmenspezifikation für koaxiale HF Steckverbinder der  
BMP-Serie  
(IEC 61169-48:2014)

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## Foreword

The text of document 46F/253/CDV, future edition 1 of IEC 61169-48, 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 61169-48:2015.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-09-13
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## Annex ZA (normative)

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<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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# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**



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**Radio-frequency connectors –  
Part 48: Sectional specification for series BMP R.F. coaxial connectors**

**Connecteurs pour fréquences radioélectriques –  
Partie 48: Spécification intermédiaire relative aux connecteurs coaxiaux R.F.  
série BMP**





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**IEC 61169-48**

Edition 1.0 2014-10

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Radio-frequency connectors –  
Part 48: Sectional specification for series BMP R.F. coaxial connectors**

**Connecteurs pour fréquences radioélectriques –  
Partie 48: Spécification intermédiaire relative aux connecteurs coaxiaux R.F.  
série BMP**

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**RADIO-FREQUENCY CONNECTORS –****Part 48: Sectional specification for series  
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The text of this standard is based on the following documents:

CDV	Report on voting
46F/253/CDV	46F/291/RVC

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.

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## RADIO-FREQUENCY CONNECTORS –

### Part 48: Sectional specification for series BMP R.F. 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 series BMP RF coaxial connectors with blind mating, typically for use in 50  $\Omega$  board to board connection. They may also be used with RF cables or micro-strips in microwave, telecommunication, wireless and other fields. Their operating frequency limit is up to 6 GHz.

It describes the interface dimensions with gauging information, electrical and mechanical performance including the mandatory tests selected from IEC 61169-1:2013 applicable to all DS relating to type BMP connectors.

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

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 – Full detent and smooth bore

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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