

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio-frequency connectors –
Part 60: Sectional specification for RF coaxial connectors with push on mating –
Characteristic impedance 50 Ohm (type SMPM)**

**Connecteurs pour fréquences radioélectriques –
Partie 60: Spécification intermédiaire relative aux connecteurs coaxiaux pour
fréquences radioélectriques avec couplage par poussée – Impédance
caractéristique 50 Ohm (type SMPM)**



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CONTENTS

FOREWORD	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Mating face and gauge information	7
4.1 Dimensions – General connectors – Grade 2	7
4.1.1 SMPM connector with pin-centre contact	7
4.1.2 SMPM connector with socket-centre contact (see Figure 3)	9
4.2 SMPM gauges	10
4.2.1 SMPM gauge pin for socket-centre contact	10
4.2.2 Gauges for outer contact of SMPM connector with socket-centre contact	11
5 Quality assessment procedure	19
5.1 General	19
5.2 Rating and characteristics (see Clause 5 of IEC 61169-1:2013)	19
5.3 Test schedule and inspection requirements	22
5.3.1 Acceptance tests	22
5.3.2 Periodic tests	22
5.4 Procedures for the quality conformance	24
5.4.1 Quality conformance inspection	24
5.4.2 Quality conformance and its maintenance	24
6 Instructions for preparation of detail specifications (DS)	24
6.1 General	24
6.2 Identification of the component	24
6.3 Performances	25
6.4 Marking, ordering information and related matters	25
6.5 Selection of tests, test conditions and severities	25
6.6 Blank detail specification pro-forma for type SMPM connector	26
7 Marking	30
7.1 Marking of component	30
7.2 Marking and contents of package	30
Figure 1 – SMPM connector with pin-centre contact – Full detent (for dimensions, see Table 1)	7
Figure 2 – SMPM connector with pin-centre contact – Smooth bore (for dimensions, see Table 2)	8
Figure 3 – SMPM connector with socket-centre contact (for dimensions, see Table 3)	9
Figure 4 – SMPM gauge pin for socket-centre contact (for dimensions, see Table 4)	10
Figure 5 – SMPM engagement force gauge – Full detent (for dimensions, see Table 5)	11
Figure 6 – SMPM Separation force gauge – Full detent (for dimensions, see Table 6)	13
Figure 7 – SMPM Engagement force gauge – Smooth bore (for dimensions, see Table 7)	15
Figure 8 – SMPM Separation force gauge – Smooth bore (for dimensions, see Table 8)	17
Figure 9 – SMPM gauge block (for dimensions, see Table 9)	18
Table 1 – Dimensions of SMPM connector with pin-centre contact full detent	7

Table 2 – Dimensions of SMPM connector with pin-centre contact – Smooth bore	8
Table 3 – Dimensions of SMPM connector with socket-centre contact.....	9
Table 4 – Dimensions of SMPM gauge pin for socket-centre contact.....	10
Table 5 – Dimensions of SMPM engagement force gauge – Full detent	12
Table 6 – Dimensions of SMPM separation force gauge – Full detent	14
Table 7 – Dimensions of SMPM engagement force gauge – Smooth bore	16
Table 8 – Dimensions of SMPM separation force gauge – Smooth bore	18
Table 9 – Dimensions of SMPM gauge block	19
Table 10 – Preferred climatic categories (see IEC 60068-1).....	19
Table 11 – Rating and characteristics	20
Table 12 – Acceptance tests	22
Table 13 – Periodic tests	23

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

Part 60: Sectional specification for RF coaxial connectors with push on mating – Characteristic impedance 50 Ohm (type SMPM)

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IEC 61169-60 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. It is an International Standard.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
46F/548/FDIS	46F/555/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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

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RADIO-FREQUENCY CONNECTORS –

Part 60: Sectional specification for RF coaxial connectors with push on mating – Characteristic impedance 50 Ohm (type SMPM)

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 push-on coupling, typically for use in 50 Ω RF cables or micro-strips in microwave, telecommunication, wireless systems and other fields (SMPM).

It specifies 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 SMPM 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 SMPM push-on coupling structure series RF coaxial connectors with the characteristic of normative impedance 50 Ω are used with various kinds of RF cables or micro-strips in microwave, telecommunication, wireless systems. The operating frequency limit is up to 65 GHz.

NOTE Imperial dimensions are original dimensions. All undimensioned 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 60068-1, *Environmental testing – Part 1: General and guidance*

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

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

3 Terms and definitions

No terms and definitions are listed in this document.

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