

INTERNATIONAL STANDARD

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**Radio-frequency connectors –
Part 58: Sectional specification for RF coaxial connectors with blind-mate
coupling – Characteristic impedance 50 Ω (type SBMA)**

**Connecteurs pour fréquences radioélectriques –
Partie 58: Spécification intermédiaire relative aux connecteurs coaxiaux
pour fréquences radioélectriques à accouplement en aveugle – Impédance
caractéristique 50 Ω (type SBMA)**



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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references.....	6
3 Mating face and gauge information.....	7
3.1 Dimensions – General connectors	7
3.1.1 Connector with socket centre contact	7
3.1.2 Connector with socket-centre contact	8
3.2 Gauges for general purpose connectors.....	9
3.2.1 Gauge pins for socket centre contact.....	9
3.2.2 Test procedure.....	10
3.2.3 Gauge pins for outer contact	10
3.2.4 Test procedure.....	11
3.3 Dimensions – standard test connectors – grade 0	11
3.3.1 Connector with pin-centre contact.....	11
3.3.2 Connector with socket-centre contact	12
3.4 Requirements for installation	12
3.4.1 Radial misalignment.....	12
3.4.2 Axial separation between mating reference planes	13
4 Quality assessment procedures	14
4.1 General.....	14
4.2 Ratings and characteristics (see Clause 5 of IEC 61169-1:2013).....	14
4.3 Test schedule and inspection requirements.....	16
4.3.1 Acceptance tests.....	16
4.3.2 Periodic tests.....	16
4.4 Procedures for the quality conformance	19
4.4.1 Quality conformance inspection.....	19
4.4.2 Qualification approval and its maintenance	19
5 Instructions for preparation of detail specifications	19
5.1 General.....	19
5.2 Identification of the component.....	19
5.3 Performance	19
5.4 Marking, coding information and related matters.....	20
5.5 Selection of tests, test conditions and severities	20
5.6 Blank detail specification pro-forma for type SMBA connector	20
6 Marking	24
6.1 Marking of component.....	24
6.2 Marking and contents of package	25
Figure 1 – Connector with pin centre contact (for dimensions, see Table 1).....	7
Figure 2 – Connector with socket centre contact (for dimensions, see Table 2)	8
Figure 3 – Gauge pin for socket-centre contact (for dimensions, see Table 3)	9
Figure 4 – Gauge pin for outer contact (for dimensions, see Table 4).....	10
Figure 5 – Connector with pin centre contact (for dimensions, see Table 5).....	11
Figure 6 – Connector with socket centre contact (for dimensions, see Table 6)	12
Figure 7 – Radial misalignment	13

Figure 8 – Rigidly mounted receptacle and jack.....	13
Figure 9 – Rigidly mounted receptacle and float mounted jack	14
Table 1 – Dimensions of connector with pin-centre contact	8
Table 2 – Dimensions of connector with socket-centre contact.....	9
Table 3 – Gauge pins dimensions for socket-centre contact.....	9
Table 4 – Gauge pins dimensions for outer contact.....	10
Table 5 – Dimensions of connector with pin-centre contact	11
Table 6 – Dimensions of connector with socket-centre contact.....	12
Table 7 – Rating and characteristics.....	5
Table 8 – Acceptance tests	17
Table 9 – Periodic tests	18

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 58: Sectional specification for RF
coaxial connectors with blind-mate coupling –
Characteristic impedance 50 Ω (type SBMA)**

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

FDIS	Report on voting
46F/347/FDIS	46F/352/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 58: Sectional specification for RF coaxial connectors with blind-mate coupling – Characteristic impedance 50 Ω (type SBMA)

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 SBMA series coaxial connectors with blind-mate coupling.

The connectors are used with cables with characteristic impedance 50 Ω in an operating frequency range up to 28 GHz. The connectors are widely used in communications, antennas, radars and other applications for modules interconnections. It is also normally used in conjunction with appropriate transmission line.

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 SBMA 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, 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 62037-3:2013, *Passive RF and microwave devices, intermodulation level measurement – Part 3: Measurement of passive intermodulation in coaxial connectors*