

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