BS EN 61169-58:2016



BSI Standards Publication

Radio-frequency connectors

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

bsi.

National foreword

This British Standard is the UK implementation of EN 61169-58:2016. It is identical to IEC 61169-58:2016.

The UK participation in its preparation was entrusted to Technical Committee EPL/46, Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Hochfrequenz-Steckverbinder - Teil 58: Rahmenspezifikation für koaxiale HF-Steckverbinder mit Blindsteckverbindung - Wellenwiderstand 50 O (Typ SBMA) (IEC 61169-58:2016)

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European foreword

The text of document 46F/347/FDIS, future edition 1 of IEC 61169-58, prepared by SC 46F "RF and microwave passive components", of IEC/TC 46 "Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61169-58:2016.

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) 2017-06-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-09-20

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

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.

Publication	Year	Title	EN/HD	Year
IEC 61169-1	2013	Radio-frequency connectors -- Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	2013
IEC 62037-3	-	Passive RF and microwave devices, intermodulation level measurement -- Part 3: Measurement of passive intermodulation in coaxial connectors	EN 62037-3	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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)

FOREWORD

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International Standard IEC 61169-58 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.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

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*