



SLOVENSKI STANDARD
SIST EN 61169-58:2017

01-januar-2017

Radiofrekvenčni konektorji - 58. del: Področna specifikacija za RF-koaksialne konektorje z "blind-mate" sklopko - Karakteristična impedanca 50 ohm (tip SBMA) (IEC 61169-58:2016)

Radio-frequency connectors - Part 58: Sectional specification for RF coaxial connectors with blind-mate coupling - characteristic impedance 50 Ω (type SBMA) (IEC 61169-58:2016)

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Ta slovenski standard je istoveten z: EN 61169-58:2016

ICS:

33.120.30 Radiofrekvenčni konektorji RF connectors
(RF)

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EUROPEAN STANDARD

EN 61169-58

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2016

ICS 33.120.30

English Version

**Radio-frequency connectors - Part 58: Sectional specification for
RF coaxial connectors with blind-mate coupling - Characteristic
impedance 50 Ω (type SBMA)
(IEC 61169-58:2016)**

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)
(IEC 61169-58:2016)

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

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN 61169-58:2016**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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-09-20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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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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IEC 61169-58

Edition 1.0 2016-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**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)**

INTERNATIONAL
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INTERNATIONALE

ICS 33.120.30

ISBN 978-2-8322-3600-0

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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 Performances.....	19
5.4 Marking, ordering 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	15
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)**

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.

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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*