

STN	Vysokofrekvenčné konektory Časť 10: Rámcová špecifikácia VF koaxiálnych konektorov s vnútorným priemerom vonkajšieho vodiča 3 mm (0,12 in) so spojením so západkou Charakteristická impedancia 50 Ω (typ SMB)	STN EN IEC 61169-10 35 3811
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Radio-frequency connectors - Part 10: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 3 mm (0,12 in) with snap-on coupling - Characteristic impedance 50 (Type SMB)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/24

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EUROPEAN STANDARD

EN IEC 61169-10

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2024

ICS 33.120.30

English Version

**Radio-frequency connectors - Part 10: Sectional specification for
RF coaxial connectors with inner diameter of outer conductor 3
mm (0,12 in) with snap-on coupling - Characteristic impedance
50 Ω (Type SMB)
(IEC 61169-10:2024)**

Connecteurs pour fréquences radioélectriques - Partie 10:
Spécification intermédiaire relative aux connecteurs
coaxiaux pour fréquences radioélectriques avec diamètre
intérieur du conducteur extérieur de 3 mm (0,12 in) à
couplage par encliquetage - Impédance caractéristique
50 Ω (type SMB)
(IEC 61169-10:2024)

Hochfrequenz-Steckverbinder - Teil 10: Hochfrequenz-
Koaxialsteckverbinder mit einem Innen-
/Außenleiterdurchmesser von 3 mm (0,12 Zoll) mit
Schnappkupplung - Wellenwiderstand 50 Ohm (Typ SMB)
(IEC 61169-10:2024)

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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61169-10:2024 (E)**European foreword**

The text of document 46F/658/FDIS, future edition 1 of IEC 61169-10, 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 IEC 61169-10:2024.

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Annex ZA (normative)

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NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.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 62153-4-7	-	Metallic cables and other passive components test methods - Part 4-7: Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance Z_T and screening attenuation a_s or coupling attenuation a_c of connectors and assemblies - Triaxial tube in tube method	EN IEC 62153-4-7	-



IEC 61169-10

Edition 1.0 2024-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio- frequency connectors –
Part 10: Sectional specification for RF coaxial connectors with inner diameter of
outer conductor 3 mm (0,12 in) with snap-on coupling – Characteristic
impedance 50 Ω (Type SMB)**

**Connecteurs pour fréquences radioélectriques –
Partie 10: Spécification intermédiaire relative aux connecteurs coaxiaux pour
fréquences radioélectriques avec diamètre intérieur du conducteur extérieur de
3 mm (0,12 in) à couplage par encliquetage – Impédance caractéristique 50 Ω
(type SMB)**



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IEC 61169-10

Edition 1.0 2024-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Radio-frequency connectors –

Part 10: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 3 mm (0,12 in) with snap-on coupling – Characteristic impedance 50 Ω (Type SMB)

Connecteurs pour fréquences radioélectriques –

Partie 10: Spécification intermédiaire relative aux connecteurs coaxiaux pour fréquences radioélectriques avec diamètre intérieur du conducteur extérieur de 3 mm (0,12 in) à couplage par encliquetage – Impédance caractéristique 50 Ω (type SMB)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

Part 10: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 3 mm (0,12 in) with snap-on coupling – Characteristic impedance 50 Ω (Type SMB)

FOREWORD

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IEC 61169-10 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:

Draft	Report on voting
46F/658/FDIS	46F/665/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/publications.

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RADIO-FREQUENCY CONNECTORS –

Part 10: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 3 mm (0,12 in) with snap-on coupling – Characteristic impedance 50 Ω (Type SMB)

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 series SMB RF coaxial connectors with snap-on coupling with a characteristic impedance of 50 Ω .

This document prescribes mating face dimensions for high performance 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 SMB RF connectors.

This document 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 series SMB connectors are used to connect with all kinds of RF cables and microstrips in microwave transmission systems. The operating frequency is up to 4 GHz.

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

IEC 62153-4-7, *Metallic cables and other passive components test methods – Part 4-7: Electromagnetic compatibility (EMC) – Test method for measuring of transfer impedance Z_T and screening attenuation a_S or coupling attenuation a_C of connectors and assemblies – Triaxial tube in tube method*

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