

STN	Vysokofrekvenčné konektory Časť 54: Rámcová špecifikácia koaxiálnych konektorov s vnútorným priemerom vonkajšieho vodiča 10 mm, menovitá hodnota charakteristickej impedancie 50 Ohmov, typ 4,3-10	STN EN IEC 61169-54 35 3811
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Radio frequency connectors - Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 , Series 4,3-10

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. 12/21

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English Version

Radio frequency connectors - Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ω , Series 4,3-10 (IEC 61169-54:2021)

Connecteurs pour fréquences radioélectriques - Partie 54:
Spécification intermédiaire relative aux connecteurs coaxiaux avec diamètre intérieur du conducteur extérieur de 10 mm, impédance caractéristique nominale 50 Ω , série 4,3-10
(IEC 61169-54:2021)

Hochfrequenz-Steckverbinder - Teil 54:
Rahmenspezifikation für koaxiale HF-Steckverbinder mit 10 mm Innendurchmesser des Außenleiters, Wellenwiderstand 50 Ω , Typ 4,3-10
(IEC 61169-54:2021)

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EN IEC 61169-54:2021 (E)**European foreword**

The text of document 46F/574/FDIS, future edition 2 of IEC 61169-54, 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 61169-54:2021.

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Annex ZA
(normative)**Normative references to international publications
with their corresponding European publications**

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NOTE 1 Where 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 62037-1	2012	Passive RF and microwave devices intermodulation level measurement - Part 1: General requirements and measuring methods	EN 62037-1	2012



IEC 61169-54

Edition 2.0 2021-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio-frequency connectors –
Part 54: Sectional specification for coaxial connectors with 10 mm inner
diameter of outer conductor, nominal characteristic impedance 50 Ω ,
series 4,3-10**

**Connecteurs pour fréquences radioélectriques –
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diamètre intérieur du conducteur extérieur de 10 mm, impédance caractéristique
nominale 50 Ω , série 4,3-10**



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IEC 61169-54

Edition 2.0 2021-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio-frequency connectors –
Part 54: Sectional specification for coaxial connectors with 10 mm inner
diameter of outer conductor, nominal characteristic impedance 50 Ω ,
series 4,3-10**

**Connecteurs pour fréquences radioélectriques –
Partie 54: Spécification intermédiaire relative aux connecteurs coaxiaux avec
diamètre intérieur du conducteur extérieur de 10 mm, impédance caractéristique
nominale 50 Ω , série 4,3-10**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 54: Sectional specification for coaxial connectors
with 10 mm inner diameter of outer conductor,
nominal characteristic impedance 50 Ω , series 4,3-10**

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IEC 61169-54 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.

This second edition cancels and replaces the first edition published in 2016. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) updated patent statement,
- b) Table 8: some values changed.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
46F/574/FDIS	46F/577/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/standardsdev/publications.

A list of all parts of the IEC 61169 series, under the general title: *Radio-frequency connectors*, can be found on the IEC website.

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RADIO-FREQUENCY CONNECTORS –

Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ω , series 4,3-10

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 coaxial connectors with 10 mm inner diameter of outer conductor, characteristic impedance 50 Ω , series 4,3-10 with screw type, hand screw type or quick-lock type coupling, for an upper operating frequency limit of 6 GHz, for use in wireless telecommunication and wireless network applications in conjunction with appropriate transmission line types for these applications.

It also describes mating face dimensions for general purpose connectors, gauging information and tests selected from IEC 61169-1, applicable to all detail specifications relating to 4,3-10 series connectors.

This specification indicates the 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.

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 62037-1:2012, *Passive RF and microwave devices, intermodulation level measurement – Part 1: General requirements and measuring methods*

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