

SLOVENSKI STANDARD

SIST EN IEC 61169-54:2021

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Radiofrekvenčni konektorji - 54. del: Področna specifikacija za koaksialne konektorje z notranjim premerom zunanjih vodnikov 10 mm in nazivno karakteristično impendanco 50 ohm, serija 4,3-10 (IEC 61169-54:2021)

Radio frequency connectors - Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ohms, Series 4.3-10 (IEC 61169-54:2021)

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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) [SIST EN IEC 61169-54:2021](https://standards.iteh.ai/catalog/standards/sist/7a51d6bb00fc/sist-en-iec-61169-54-2021)

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Connecteurs pour fréquences radioélectriques - Partie 54: Spécification intermédiaire relative aux connecteurs coaxiaux avec diamètre intérieur du conducteur extérieur de 10 mm, impédance caractéristique nominale de 50 Ohms, série 4.3-10 (IEC 61169-54:2021)

Ta slovenski standard je istoveten z: EN IEC 61169-54:2021

ICS:

33.120.30 Radiofrekvenčni konektorji RF connectors
(RF)

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en

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EUROPEAN STANDARD

EN IEC 61169-54

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October 2021

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Supersedes EN 61169-54:2016 and all of its amendments and corrigenda (if any)

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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Europäisches Komitee für Elektrotechnische Normung

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

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.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2022-07-01 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2024-10-01 document have to be withdrawn

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Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

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

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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**

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**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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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references.....	7
3 Terms and definitions	7
4 Mating face and gauge information.....	7
4.1 Dimensions – General connectors – Grade 2	7
4.1.1 Connector with pin-centre contact (see Figure 1)	7
4.1.2 Connector with socket-centre contact (see Figure 2).....	10
4.1.3 Presentation of possible coupling mechanisms	12
4.2 Gauges.....	15
4.2.1 Gauge pins for socket-centre contact (see Figure 6)	15
4.2.2 Test procedure.....	15
4.2.3 Gauge rings for plug outer contact (see Figure 7)	16
4.2.4 Test procedure.....	16
4.3 Dimensions – Standard test connectors – Grade 0	17
4.3.1 Connector with pin-centre contact (see Figure 8)	17
4.3.2 Connector with socket-centre contact (see Figure 9).....	19
5 Quality assessment procedure.....	20
5.1 General.....	20
5.2 Ratings and characteristics.....	21
5.3 Test schedule and inspection requirements.....	23
5.3.1 Acceptance tests.....	23
5.3.2 Periodic tests	24
5.4 Procedures for quality conformance.....	25
5.4.1 Quality conformance inspection.....	25
5.4.2 Quality conformance and its maintenance.....	26
5.5 Test and measurement procedures.....	26
5.5.1 General	26
5.5.2 Schedule of basic test groupings for acceptance and periodic tests.....	26
5.6 Specifications	27
5.6.1 Specification structures	27
5.6.2 Sectional specification (SS).....	27
5.6.3 Detail specification (DS).....	27
5.6.4 Blank detail specification.....	27
5.6.5 Blank detail specification pro-forma for 50 Ω type 4,3-10 connectors	29
6 Marking	33
6.1 Marking of component.....	33
6.2 Marking and contents of package	34
Figure 1 – Connector with pin-centre contact (for dimensions and key, see Table 1).....	8
Figure 2 – Connector with socket-centre contact (for dimensions and key, see Table 2)	10
Figure 3 – Screw type	12
Figure 4 – Hand screw type.....	13
Figure 5 – Quick lock type.....	14

Figure 6 – Gauge pins for socket-centre contact (for dimensions, see Table 3).....	15
Figure 7 – Gauge rings for socket outer contact (for dimensions see Table 4)	16
Figure 8 – Connector with pin-centre contact (for dimensions and key, see Table 5).....	17
Figure 9 – Connector with socket-centre contact (for dimensions and key, see Table 6)	19
Table 1 – Dimensions of connector with pin-centre contact	9
Table 2 – Dimensions of connector with socket-centre contact	11
Table 3 – Dimensions of gauge pins for socket-centre contact	15
Table 4 – Dimensions of gauge rings for socket outer contact	16
Table 5 – Dimensions of connector with pin-centre contact	18
Table 6 – Dimensions of connector with socket-centre contact	20
Table 7 – Climatic categories	21
Table 8 – Ratings and characteristics	21
Table 9 – Acceptance tests	24
Table 10 – Periodic tests	25

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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**

FOREWORD

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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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

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INTRODUCTION

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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.

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2 Normative references

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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*

3 Terms and definitions

No terms and definitions are listed in this document.

4 Mating face and gauge information

4.1 Dimensions – General connectors – Grade 2

4.1.1 Connector with pin-centre contact (see Figure 1)

Metric dimensions are original dimensions. All un-dimensioned pictorial configurations are for reference purpose only.