

STN	Vysokofrekvenčné konektory Časť 65: Rámcová špecifikácia VF koaxiálnych konektorov s vnútorným priemerom vonkajšieho vodiča 1,35 mm so závitovým uzáverom, charakteristická impedancia 50 Ohm	STN EN IEC 61169-65 35 3811
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Radio-frequency connectors - Part 65: Sectional specification for RF coaxial connectors, 1,35 mm inner diameter of outer conductor, with screw-coupling, characteristic impedance 50

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. 07/21

Obsahuje: EN IEC 61169-65:2021, IEC 61169-65:2021

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EUROPEAN STANDARD

EN IEC 61169-65

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2021

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English Version

**Radio-frequency connectors - Part 65: Sectional specification for
RF coaxial connectors, 1,35 mm inner diameter of outer
conductor, with screw-coupling, characteristic impedance 50 Ω
(IEC 61169-65:2021)**

Connecteurs pour fréquences radioélectriques - Partie 65:
Spécification intermédiaire relative aux connecteurs
coaxiaux pour fréquences radioélectriques, avec un
diamètre intérieur du conducteur extérieur de 1,35 mm, à
couplage à vis, impédance caractéristique de 50 Ω
(IEC 61169-65:2021)

Hochfrequenz-Steckverbinder - Teil 65:
Rahmenspezifikation für koaxiale HF-Steckverbinder mit
1,35 mm Innendurchmesser des Außenleiters, mit
Schraubkupplung, Wellenwiderstand 50 Ohm, für den
Einsatz bis 90 GHz
(IEC 61169-65:2021)

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

EN IEC 61169-65:2021 (E)**European foreword**

The text of document 46F/527(F)/FDIS, future edition 1 of IEC 61169-65, 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 61169-65:2021.

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Annex ZA (normative)

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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 61726	-	Cable assemblies, cables, connectors and passive microwave components - Screening attenuation measurement by the reverberation chamber method	EN 61726	-
IEC 62037	-	RF connectors, connector cable-assemblies and cables - Intermodulation level measurement	-	-
IEC 62153-4-7	-	Metallic communication cable 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 up to and above 3 GHz - Triaxial tube in tube method	EN 62153-4-7	-



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INTERNATIONAL STANDARD

NORME INTERNATIONALE

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Part 65: Sectional specification for RF coaxial connectors, 1,35 mm inner
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de 1,35 mm, à couplage à vis, impédance caractéristique de 50 Ω**



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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IEC 61169-65

Edition 1.0 2021-01

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio-frequency connectors –
Part 65: Sectional specification for RF coaxial connectors, 1,35 mm inner
diameter of outer conductor, with screw-coupling, characteristic
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**Connecteurs pour fréquences radioélectriques –
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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 Mating face and gauge information.....	6
4.1 Dimensions – General purpose connectors – Grade 1.....	6
4.1.1 Connector with pin centre contact.....	6
4.1.2 General purpose connector with socket centre contact	7
4.2 Gauge pin for socket centre contact.....	8
4.2.1 Dimensions.....	8
4.2.2 Test procedure	8
4.3 Dimensions standard test connectors – Grade 0	8
4.3.1 Standard test connector with pin centre contact.....	8
4.3.2 Standard test connector with socket centre contact	9
5 Quality assessment procedures	11
5.1 General.....	11
5.2 Ratings and characteristics (see Clause 5 of IEC 61169-1:2013)	11
5.3 Test schedule and inspection requirements.....	12
5.3.1 Acceptance tests	12
5.3.2 Periodic tests.....	13
5.4 Procedures for quality conformance	15
5.4.1 Quality conformance inspection	15
5.4.2 Quality conformance and its maintenance.....	15
6 Instructions for preparation of detail specifications	15
6.1 General.....	15
6.2 Identification of the component	15
6.3 Performance	15
6.4 Marking, ordering information and related matters	16
6.5 Selection of tests, test conditions and severities	16
6.6 Blank detail specification pro-forma for 1,35 mm connectors	16
Figure 1 – General purpose connector with pin centre contact	6
Figure 2 – General purpose connector with socket centre contact.....	7
Figure 3 – Gauge pin for socket centre contact.....	8
Figure 4 – Standard test connector with pin centre contact	9
Figure 5 – Standard test connector with socket centre contact.....	10
Table 1 – Dimensions of connector with pin centre contact – Grade 1.....	6
Table 2 – Dimensions of connector with socket centre contact – Grade 1	7
Table 3 – Dimensions of gauge pin for socket centre contact.....	8
Table 4 – Dimensions of connector with pin centre contact – Grade 0.....	9
Table 5 – Dimensions of connector with socket centre contact – Grade 0	10
Table 6 – Ratings and characteristics	11
Table 7 – Acceptance tests.....	12
Table 8 – Periodic tests	13

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

**Part 65: Sectional specification for RF coaxial connectors,
1,35 mm inner diameter of outer conductor, with screw-coupling,
characteristic impedance 50 Ω**

FOREWORD

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International Standard IEC 61169-65 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 International Standard is based on the following documents:

FDIS	Report on voting
46F/527/FDIS	46F/542/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document 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 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,
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- amended.

RADIO-FREQUENCY CONNECTORS –

Part 65: Sectional specification for RF coaxial connectors, 1,35 mm inner diameter of outer conductor, with screw-coupling, characteristic impedance 50 Ω

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 1,35 mm RF coaxial connectors with screw coupling, characteristic impedance 50 Ω , for operating frequencies up to 90 GHz. Typical use in test and measurement applications.

It describes mating face dimensions for general purpose connectors – grade 1, 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 1,35 mm RF connectors.

This specification 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.

NOTE Metric dimensions are original dimensions. All undimensioned pictorial configurations are for reference purpose only.

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 61726, *Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method*

IEC 62037, *Passive RF and microwave devices, intermodulation level measurement*

IEC 62153-4-7, *Metallic communication cables 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 up to and above 3 GHz – Triaxial tube in tube method*

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