

# 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  
impedance 50  $\Omega$**

**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  $\Omega$**



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## 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  $\Omega$** 

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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- withdrawn,
- replaced by a revised edition, or
- 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 $\Omega$**

#### **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  $\Omega$ , 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*

#### **3 Terms and definitions**

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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