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Anslutningsdon för radiofrekvens – Del 17: Grupp-specifikation för koaxialdon med skruvfattning och 6,5 mm innerdiameter på ytterledaren, 50 ohm (typ TNC)

Radio-frequency connectors –

Part 17: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with screw coupling - Characteristic impedance 50 ohms (Type TNC)

Som svensk standard gäller europastandarden EN IEC 61169-17:2022. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 61169-17:2022.

Nationellt förord

Europastandarden EN IEC 61169-17:2022

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 61169-17, First edition, 2022 - Radio-frequency connectors - Part 17: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with screw coupling - Characteristic impedance 50 ohms (Type TNC)**

utarbetad inom International Electrotechnical Commission, IEC.

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English Version

Radio-frequency connectors - Part 17: Sectional specification for
RF coaxial connectors with inner diameter of outer conductor 6,5
mm (0,256 in) with screw coupling - Characteristic impedance 50
ohms (Type TNC)
(IEC 61169-17:2022)

Connecteurs pour fréquences radioélectriques - Partie 17:
Spécification intermédiaire relative aux connecteurs RF
coaxiaux à couplage à vis avec conducteur extérieur
présentant un diamètre intérieur de 6,5 mm (0,256 in) -
Impédance caractéristique de 50 ohms (type TNC)
(IEC 61169-17:2022)

Hochfrequenz-Steckverbinder - Hochfrequenz-Koaxial-
Steckverbinder mit einem Innendurchmesser des
Außenleiters von 6,5 mm (0,256 in) mit Schraubkupplung -
Wellenwiderstand 50 Ohm (Typ TNC)
(IEC 61169-17:2022)

This European Standard was approved by CENELEC on 2022-04-08. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

European foreword

The text of document 46F/603/FDIS, future edition 1 of IEC 61169-17, 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 61169-17:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2023-01-08 level by publication of an identical national standard or by endorsement
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The text of the International Standard IEC 61169-17:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61169-26:2013 NOTE Harmonized as EN 61169-26:2013 (not modified)

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 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 62037-3	-	Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors	EN IEC 62037-3	-

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Radio-frequency connectors –

Part 17: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with screw coupling – Characteristic impedance 50 ohms (Type TNC)

Connecteurs pour fréquences radioélectriques –

Partie 17: Spécification intermédiaire relative aux connecteurs RF coaxiaux à couplage à vis avec conducteur extérieur présentant un diamètre intérieur de 6,5 mm (0,256 in) – Impédance caractéristique de 50 ohms (type TNC)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 17: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with screw coupling –
Characteristic impedance 50 ohms (Type TNC)**

FOREWORD

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IEC 61169-17 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/603/FDIS	46F/615/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 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 17: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 6,5 mm (0,256 in) with screw coupling – Characteristic impedance 50 ohms (Type TNC)

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 TNC RF coaxial connectors with threaded 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 TNC 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 TNC connectors which are used with all kinds of RF cables and microstrips in microwave transmission systems. The operating frequency is up to 11 GHz.

NOTE Metric dimension 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 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*

IEC 62037-3, *Passive RF and microwave devices, intermodulation level measurement – Part 3: Measurement of passive intermodulation in coaxial connectors*