

<b>STN</b>	<b>Vysokofrekvenčné konektory Časť 74: Rámcová špecifikácia vysokofrekvenčných koaxiálnych konektorov súboru HN so závitovým spojením Charakteristická impedancia 50 Ω</b>	<b>STN EN IEC 61169-74</b>  35 3811
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Radio-frequency connectors - Part 74: Sectional specification for HN series RF coaxial connectors 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. 03/26

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EUROPEAN STANDARD

**EN IEC 61169-74**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2025

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English Version

**Radio-frequency connectors - Part 74: Sectional specification for  
HN series RF coaxial connectors with screw coupling -  
Characteristic impedance 50  $\Omega$   
(IEC 61169-74:2025)**

Connecteurs pour fréquences radioélectriques - Partie 74:  
Spécification intermédiaire pour connecteurs RF coaxiaux  
de série HN avec couplage à vis - Impédance  
caractéristique 50  $\Omega$   
(IEC 61169-74:2025)

Hochfrequenz-Steckverbinder - Teil 74:  
Rahmenspezifikation für koaxiale HF-Steckverbinder der  
Serie HN mit Schraubkupplung - Wellenwiderstand 50 Ohm  
(IEC 61169-74:2025)

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**EN IEC 61169-74:2025 (E)****European foreword**

The text of document 46F/703/CDV, future edition 1 of IEC 61169-74, 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 61169-74:2025.

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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.cencenelec.eu](http://www.cencenelec.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 62037-3	-	Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors	EN IEC 62037-3	-
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	-



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Edition 1.0 2025-11

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Radio-frequency connectors -  
Part 74: Sectional specification for HN series RF coaxial connectors with screw  
coupling - Characteristic impedance 50  $\Omega$**

**Connecteurs pour fréquences radioélectriques -  
Partie 74: Spécification intermédiaire pour connecteurs RF coaxiaux de série HN  
avec couplage à vis - Impédance caractéristique 50  $\Omega$**



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**Radio-frequency connectors -  
Part 74: Sectional specification for HN series RF coaxial connectors with  
screw coupling - Characteristic impedance 50 Ω**

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

Draft	Report on voting
46F/703/CDV	46F/719/RVC

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.

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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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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## 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 HN RF coaxial connectors with screw coupling with a characteristic impedance of 50  $\Omega$ .

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 HN RF connectors.

This document indicates recommended performance characteristics which are considered when writing a Detail Specification and it covers test schedules and inspection requirements for assessment levels M and H.

The series HN connectors are intended to be used in microwave transmission systems and can be connected with all kinds of RF cables and microstrips. The operating frequency is up to 6 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 62037-3, *Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors*

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*

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