

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Radio-frequency connectors –

Part 71: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 5 mm – Characteristic impedance 50 Ohms – type NEX10®

Connecteurs pour fréquences radioélectriques –

Partie 71: Spécification intermédiaire pour connecteurs RF coaxiaux avec conducteur extérieur présentant un diamètre intérieur de 5 mm – Impédance caractéristique de 50 ohms (type NEX10®)



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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with inner diameter of outer conductor 5 mm –
Characteristic impedance 50 Ohms – type NEX10®**

FOREWORD

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IEC 61169-71 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/618/FDIS	46F/622/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.

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RADIO-FREQUENCY CONNECTORS –

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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 RF coaxial connector, typically for use in 50 Ω radio communication systems, type NEX10®¹.

This document describes mating face dimensions for general purpose connectors (grade 2), dimensional details of standard test connectors (grade 1), gauging information and tests selected from IEC 61169-1, applicable to all detail specifications relating to type NEX10® RF coaxial 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 type NEX10® RF coaxial connectors are used with all kinds of RF cables and microstrip circuits in radio frequency transmission systems with operating frequencies up to 20 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*

ISO 3290-1, *Rolling bearings-balls – Part 1: steel balls*

3 Terms and definitions

No terms and definitions are listed in this document.

¹ NEX10® is an example of a suitable product available commercially. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of this product.