

**BUREAU OF INDIAN STANDARDS**  
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**मसौदा भारतीय मानक**  
**रेडियो-फ्रीक्वेंसी कनेक्टर्स -**  
**भाग 24: अनुभागीय विशिष्टता - पेंच के साथ रेडियो फ्रीक्वेंसी**  
**समाक्षीय कनेक्टर कपलिंग, आमतौर पर 75  $\Omega$  में उपयोग के लिए**  
**केबल नेटवर्क (टाइप एफ)**  
**(पहला पुनरीक्षण)**

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***Draft Indian Standard***  
***Radio-Frequency Connectors –***  
***Part 24: Sectional Specification – Radio Frequency***  
***Coaxial Connectors with Screw***  
***Coupling, Typically for Use in 75  $\Omega$  Cable Networks***  
***(Type F)***  
***(First Revision)***

***ICS 31.220.10***

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## NATIONAL FOREWORD

(Formal clauses will be added later)

This Draft Indian Standard (Part 24) (First Revision) which is identical with IEC 61169-24: 2019 ‘Radio-frequency connectors – Part 24: Sectional specification – Radio frequency coaxial connectors with screw coupling, typically for use in 75  $\Omega$  cable networks (type F)’ issued by the International Electrotechnical Commission (IEC) *will be* adopted by the Bureau of Indian Standards on the recommendation of Wires, Cables, Waveguides and Accessories Sectional Committee and approval of the Electronics and Information Technology Division Council.

IS 5054 (Part 24) ‘Radio frequency connectors: Part 24 radio frequency coaxial connectors with screw coupling, typically for use in 75ohm cable distribution systems (Type F)’ was originally published in 2007 was based on IEC 60068-1: 2013 IEC 60169-24: 1991 ‘Radio-frequency connectors — Part 24: Radio-frequency coaxial connectors with screw coupling, typically for use in 75ohm cable distribution systems (Type F)’ issued by the International Electrotechnical Commission (IEC).

This superseding of IS 5054 (Part 24) has been undertaken to align it with the latest version of IEC 61169-24: 2019. On publication of this Indian Standard IS 5054 (Part 24): 2007 stands withdrawn.

The text of IEC Standard *may be* approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appears referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies:

<i>International Standard</i>	<i>Title</i>
IEC 61169-1:2013	Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods
EN 60068-2-52	Environmental testing – Test methods. Tests. Test Kb. Salt mist, cyclic (sodium chloride solution)

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in

accordance with IS 2:2022 'Rules for rounding off numerical values (*Second Revision*)'. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

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### **SCOPE OF IEC 61169-24: 2019**

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 connectors with screw coupling, typically for use in 75  $\Omega$  cable networks (type F).

It describes the interface dimensions with gauging information and the mandatory tests selected from IEC 61169-1, applicable to all DS relating to type F connectors.

This specification indicates the recommended performance characteristics to be considered when writing a DS and covers test schedules and inspection requirements.

NOTE Millimeters are original dimensions. All undimensioned pictorial configurations are for reference purposes only.

**Note:** - The Technical content of this document has not been enclosed as these are identical with the corresponding IEC Standard. For details, please refer to IEC 61169-24: 2019 or kindly contact.

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