



DPC: 21/30443406 DC

BSI Group Headquarters

389 Chiswick High Road London W4 4AL

Tel: +44 (0)20 8996 9000

Fax: +44 (0)20 8996 7400

www.bsigroup.com

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Responsible committee: EPL/46 Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling

Interested committees:

Title: Draft BS EN IEC 61169-72 Radio-frequency connectors. Part 72: Sectional specification for Precision SMP3 series coaxial connectors as test connector.

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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This draft is issued to allow comments from interested parties; all comments will be given consideration prior to publication. No acknowledgement will normally be sent. **See overleaf for information on the submission of comments.**

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Information on the co-operating organizations represented on the committees referenced above may be obtained from <https://standardsdevelopment.bsigroup.com/>.

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



46F/590/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

IEC 61169-72 ED1

DATE OF CIRCULATION:

2021-11-19

CLOSING DATE FOR COMMENTS:

2022-02-11

SUPERSEDES DOCUMENTS:

46F/570/NP, 46F/581/RVN

IEC SC 46F : RF AND MICROWAVE PASSIVE COMPONENTS

SECRETARIAT:

United States of America

SECRETARY:

Mr John Morelli

OF INTEREST TO THE FOLLOWING COMMITTEES:

PROPOSED HORIZONTAL STANDARD:

☒

Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☐ SAFETY

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

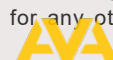
TITLE:

RADIO-FREQUENCY CONNECTORS - Part 72: Sectional specification for Precision SMP3 series coaxial connectors as test connector.

NOTE FROM TC/SC OFFICERS:

please see revised CD incorporating the comments received

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

– RADIO-FREQUENCY CONNECTORS –

Part 72: Sectional specification for Precision SMP3
radio-frequency coaxial connectors

FOREWORD

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International Standard IEC 61169-XX 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 standard is based on the following documents:

FDIS	Report on voting
46F/XX/FDIS	46F/XX/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.

The National Committees are requested to note that for this document the stability date is 20XX.

THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE PUBLICATION STAGE.

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

RADIO-FREQUENCY CONNECTORS –

Part 72: Sectional specification for Precision SMP3 radio-frequency coaxial connectors

1 Scope

This part of IEC 61169 which is a sectional specification (SS) provides information and rules for preparation of detail specification (DS) for precision SMP3 series coaxial connectors with push-on coupling. These connectors are used with RF coaxial cables, microstrips and others in microwave transmission system applications. The operating frequency limit is up to 110 GHz with keeping high performance even if reconnection/disconnection cycles is more than 600.

It prescribes mating face dimensions, dimensional details, standard test connectors - grade 0 as well as test schedules and inspection requirements selected from IEC 61169-1, applicable to all detail specifications relating to SMP3 series 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: For this part, original dimensions are in millimetres.

All undimensioned pictorial configurations are for reference purpose only.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 62153-4-7:2015, *Metallic communication cable test methods- Part4-7:Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance ZT, screening attenuation as or coupling attenuation ac 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.*