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Interested committees:

Title: BS EN IEC 61169-1-3 Radio-frequency connectors

Part 1-3: Electrical test methods # Surge withstand # Surge protective devices built-in coaxial connector # Performance requirements and testing methods

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

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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.

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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 Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.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

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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.	



PROJECT NUMBER:

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SUPERSEDES DOCUMENTS:

46F/569/NP, 46F/668/RVN

IEC SC 46F : RF AND MICROWAVE PASSIVE COMPONENTS

SECRETARIAT:

United States of America

SECRETARY:

Mr John Morelli

OF INTEREST TO THE FOLLOWING COMMITTEES:

HORIZONTAL FUNCTION(S):

ASPECTS CONCERNED:

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TITLE:

Radio-frequency connectors – Part 1-3: Electrical test methods – Surge withstand – Surge protective devices built-in coaxial connector – Performance requirements and testing methods

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

**Part 1-3: Electrical test methods – Surge withstand –
Surge protective devices built-in coaxial connector –
Performance requirements and testing methods**

FOREWORD

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International Standard IEC 61169-1 has been prepared by subcommittee 46F: R.F. and microwave passive components, of IEC technical committee TC46.

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

FDIS	Report on voting
XX/XX/FDIS	XX/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.

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.

RADIO-FREQUENCY CONNECTORS –

Part 1-3: Electrical test methods – Surge withstand - Surge protective devices built-in coaxial connector – Performance requirements and testing methods

1 Scope

This International Standard is applicable to built-in devices (hereinafter referred to as SPD) or surge protection of telecommunications and signalling networks against indirect and direct effects of lightning or other transient over voltages.

SPD device that is intended to protect the electrical apparatus from transient overvoltages and to divert surge currents.

The SPD built in the coaxial connector includes a gas discharge tube type, a 1/4 wavelength short stub type, a flash-off gap type, and a hybrid type thereof.

The purpose of these built-in SPD connectors is to protect modern electronic equipment connected to telecommunications and signaling networks with nominal system voltages up to 1 000 V (r.m.s.) a.c. and 1 500 V d.c.

2 Normative references

The following referenced documents are indispensable for the application 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 60050(702):1992, International Electrotechnical Vocabulary – Chapter 702: Oscillations, signals and related devices

IEC 60050(726):1982, International Electrotechnical Vocabulary – Chapter 726: Transmission lines and waveguides

IEC 61000-4-5, Electromagnetic compatibility (EMC) – Part 4: Testing and measurement techniques – Section 5 – Surge immunity test

IEC 61169-1:2013, Radio frequency connectors - Part 1: Generic specification - General requirements and measuring methods

IEC 61643-1, Surge protective devices connected to low-voltage power distribution systems – Part 1: Performance requirements and testing methods

IEC 61643-11:2011, Low-voltage surge protective devices – Part 11: Surge protective devices connected to low-voltage power systems – Requirements and test methods

IEC 61643-12:2008, Low-voltage surge protective devices – Part 12: Surge protective devices connected to low-voltage power distribution systems – Selection and application principles

IEC 61643-21:2009, Low-voltage surge protective devices – Part 21: Surge protection devices connected to telecommunications and signaling networks – Performance requirements and testing methods

IEC 61643-22:2004, Low-voltage surge protective devices – Part 22: Surge protection devices connected to telecommunications and signaling networks – Selection and application principles

ITU-T Recommendation K.30:1993, Positive temperature coefficient (PTC) thermistors

ITU-T Recommendation K.55:2002, Overvoltage and overcurrent requirements for insulation displacement connectors (IDC) terminations