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INTERNATIONAL STANDARD



Radio frequency connectors -

Part 1: Generic specification – General requirements and measuring methods

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CONTENTS

FΟ	REWC			5			
1	Scop	e		7			
2	Norm	ative re	ferences	7			
3	Terms and definitions						
	3.1	Genera	al, parts of connectors	8			
	3.2		connector terms				
	3.3		uctional terms				
	3.4]				
	3.5	Miscell	aneous terms	11			
	3.6	Genera	ıl electrotechnical terms	12			
4	Units	, symbo	Is and dimensions	12			
	4.1	Units a	nd symbols	12			
	4.2		sions				
		4.2.1	Details to be provided in relevant specifications				
		4.2.2	Dimensional units to be used in specifications				
5	Stand	dards ra	tings and characteristics				
6			ns into climatic categories				
7			ignation				
			igriation				
8		•					
9			S				
	9.1		nical inspection				
		9.1.1	Visual inspection				
		9.1.2	Dimensions				
	9.2		cal tests and measuring procedures				
		9.2.1	Return loss				
		9.2.2	Power rating	19			
		9.2.3	Contact resistance, outer conductor and centre conductor continuity (mated cabled connectors)	20			
		9.2.4	Centre and outer conductor contact continuity under severe mechanical conditioning	22			
		9.2.5	Insulation resistance				
		9.2.6	Voltage proof	23			
		9.2.7	Screening effectiveness	24			
		9.2.8	Discharge test (corona test)	24			
		9.2.9	Intermodulation level (PIM)	25			
		9.2.10	Surge withstand	26			
	9.3	Mechai	nical tests and measuring procedures	26			
		9.3.1	General	26			
		9.3.2	Soldering	26			
		9.3.3	Vibration	26			
		9.3.4	Insertion force (resilient contacts)	27			
		9.3.5	Centre contact captivation	28			
		9.3.6	Engagement and separation forces and torques	28			
		9.3.7	Effectiveness of clamping device against cable rotation (nutation of cable end)	29			
		9.3.8	Effectiveness of clamping device against cable pulling				

		9.3.9	Effectiveness of clamping device against cable bending	30
		9.3.10	Effectiveness of clamping device against cable torsion	31
		9.3.11	Strength of coupling mechanism	32
		9.3.12	Safety wire hole pull-out bending moment (and shearing force)	32
		9.3.13	Bump	33
		9.3.14	Shock	34
		9.3.15	Mechanical endurance	35
	9.4	Climati	c conditionings and tests	35
		9.4.1	Conditionings	35
		9.4.2	Climatic sequence	36
		9.4.3	Damp heat, steady state	37
		9.4.4	Change of temperature	37
		9.4.5	High temperature endurance	38
		9.4.6	Low temperature endurance	
		9.4.7	Sealing non-hermetic sealed connectors	40
		9.4.8	Hermetically sealed connectors	40
		9.4.9	Water immersion test	
		9.4.10	Salt mist	
			Resistance to solvents and contaminating fluids	
			Sulphur dioxide test	
10		•	ssment	
	10.1	Genera	al	46
	10.2	Quality	assessment steps	46
		10.2.1	Primary stage of manufacture	46
		10.2.2	Structurally similar components	46
		10.2.3	General principle for obtaining quality conformance	46
	10.3	Test so	chedule and inspection requirements	46
		10.3.1	Acceptance tests	46
			Periodic tests	
	10.4		lures for quality conformance	
		10.4.1	Quality conformance inspection	49
			Quality conformance and its maintenance	
	10.5		nd measurement procedures	
		10.5.1	General	49
			Schedule of basic test groupings for acceptance and periodic tests	
	10.6	-	cations	
			Specification structures	
			Sectional specification (SS)	
			Detail specification (DS)	
			Blank detail specification	
			Blank detail specification pro-forma for XXXX connectors	
11	Mark	ing		57
	11.1	Markin	g of component	57
	11.2	Markin	g and contents of package	57
Anr			ative) Simulated sea-water solution for use with salt mist test (marine see 9.4.10.3)	5.2
D:r			, 566 9.4.10.3)	
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Figure 1 – graphical symbols	16
Figure 2 – General principle	16
Figure 3 – Measuring set-up for two-connector procedure	17
Figure 4 – Example of a time domain reflectometer measurement recording	18
Figure 5 – Equipment set-up for the measurement of reflection in time domain	19
Figure 6 – Possible test arrangements	23
Figure 7 – Measuring circuit for the discharge test	25
Figure 8 – Test arrangement for nutation	29
Figure 9 – Test arrangement for pulling	30
Figure 10 – Bending	31
Figure 11 – Cable torsion	31
Figure 12 – Temperature curve profile	41
Figure 13 – Container/jumper arrangement	42
Table 1 – Preferred climatic categories (see IEC 60068-1)	13
Table 2 – Dielectric materials ratings	20
Table 3 – Severities for vibration	27
Table 4 – Recommended severities for bump	33
Table 5 – Recommended severities for shocks	34
Table 6 – Recommended severities for low temperature tests	39
Table 7 – Fuels, lubricants, hydraulic fluids and anti-freeze agents	44
Table 8 – Cleaning agents and moisture repellents	44
Table 9 – Acceptance tests	47
Table 10 – Periodic tests	48

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO FREQUENCY CONNECTORS -

Part 1: Generic specification – General requirements and measuring 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 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

This second edition cancels and replaces the first edition, published in 1992, its Amendments 1 (1996) and 2 (1997). This edition constitutes a technical revision.

With respect to the previous edition, tests methods have been updated as well as terminology.

The text of this standard is based on the following documents:

CDV	Report on voting	
46F/216/CDV	46F/226/RVC	

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

-6-

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 61169 series, published under the general title *Radio* frequency connectors, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- · reconfirmed,
- · withdrawn,
- replaced by a revised edition, or
- · amended.

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

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RADIO FREQUENCY CONNECTORS -

Part 1: Generic specification – General requirements and measuring methods

1 Scope

This part of IEC 61169, which is a generic specification, relates to radio frequency connectors for r.f. transmission lines for use in telecommunications, electronics and similar equipment.

It provides the basis for the sectional standards, which apply to individual connector types. It is intended to establish uniform concepts and procedures concerning:

- terminology;
- standard ratings and characteristics;
- testing and measuring procedures concerning electrical, mechanical and climatic properties;
- classification of connectors with regard to climatic testing procedures involving temperature and humidity.

The test methods and procedures of this standard are intended for acceptance and type approval testing.

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 60027 (all parts), Letter symbols to be used in electrical technology

IEC 60050 (all parts), *International Electrotechnical Vocabulary* (available from: http://www.electropedia.org)

IEC 60068-1, Environmental testing - Part 1: General and guidance

IEC 60068-2-1:1990, Environmental testing – Part 2-1: Tests – Test A: Cold1

IEC 60068-2-2:1974, Environmental testing – Part 2-2: Tests – Test B: Dry heat²

IEC 60068-2-6, Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)

IEC 60068-2-11, Environmental testing - Part 2-11: Tests - Test Ka: Salt mist

IEC 60068-2-13, Environmental testing – Part 2-13: Tests – Test M: Low air pressure

IEC 60068-2-14:2009, Environmental testing – Part 2-14: Tests – Test N: Change of temperature

IEC 60068-2-17, Environmental testing – Part 2-17: Tests – Test Q: Sealing

¹ This publication has been withdrawn.

² This publication has been withdrawn.

IEC 60068-2-20, Environmental testing – Part 2-20: Tests – Test T: Test methods for solderability and resistance to soldering heat of devices with leads

IEC 60068-2-27, Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock

IEC 60068-2-29, Environmental testing – Part 2: Tests – Test Eb and guidance: Bump

IEC 60068-2-30, Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)

IEC 60068-2-42, Environmental testing – Part 2-42: Tests – Test Kc: Sulphur dioxide test for contacts and connections

IEC 60068-2-52:1996, Environmental testing – Test Kb: Salt mist, cyclic (sodium, chloride solution)

IEC 60068-2-54, Environmental testing – Part 2-54: Tests – Test Ta: Solderability testing of electronic components by the wetting balance method

IEC 60068-2-61:1991, Environmental testing – Part 2-61: Test methods – Test Z/ABDM: Climatic sequence

IEC 60068-2-78, Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state

IEC 60457-1, Rigid precision coaxial lines and their associated precision connectors – Part 1: General requirements and measuring methods

IEC 60617, Graphical symbols for diagrams (available from: http://std.iec.ch/iec60617)

IEC 62153 (all parts), Metallic communication cables test methods

IEC 61726, Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method

IEC 62037 (all parts), Passive RF and microwave devices, intermodulation level measurement

ISO 1000, SI units and recommendations for the use of their multiples and of certain other units³

³ This publication has been withdrawn.