

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Obsahuje: EN 61169-1:2013, IEC 61169-1:2013

Oznámením tejto normy sa od 14.8.2016 ruší STN EN 61169-1 (35 3811) z júla 2001

118944

EUROPEAN STANDARD

EN 61169-1

NORME EUROPÉENNE EUROPÄISCHE NORM

November 2013

ICS 33.120.30

Supersedes EN 61169-1:1994 + A1:1996 + A2:1997

English version

Radio-frequency connectors Part 1: Generic specification General requirements and measuring methods

(IEC 61169-1:2013)

Connecteurs pour fréquences radioélectriques - Partie 1: Spécification générique - Exigences générales et méthodes de mesure (CEI 61169-1:2013)

Hochfrequenz-Steckverbinder -Teil 1: Fachgrundspezifikation -Allgemeine Anforderungen und Messverfahren (IEC 61169-1:2013)

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Foreword

The text of document 46F/216/CDV, future edition 2 of IEC 61169-1, prepared by SC 46F, "R.F. and microwave passive components", of IEC TC 46, "Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61169-1:2013.

The following dates are fixed:

•	latest date by which the document has	(dop)	2014-05-14
	to be implemented at national level by		
	publication of an identical national		
	standard or by endorsement		
•	latest date by which the national	(dow)	2016-08-14
	standards conflicting with the		
	document have to be withdrawn		

This document supersedes EN 61169-1:1994.

EN 61169-1:2013 includes the following significant technical changes with respect to EN 61169-1:1994:

Tests methods have been updated as well as terminology.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

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The text of the International Standard IEC 61169-1:2013 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61196 series NOTE Harmonised in EN 61196 series.

ISO 286-1 NOTE Harmonised as EN ISO 286-1.

ISO 1302 NOTE Harmonised as EN ISO 1302.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60027	Series	Letter symbols to be used in electrical technology	EN 60027	Series
IEC 60050	Series	International Electrotechnical Vocabulary	-	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60068-2-1	1990	Environmental testing - Part 2: Tests - Tests A: Cold	EN 60068-2-1 ¹⁾	1993
IEC 60068-2-2	1974	Environmental testing - Part 2: Tests - Tests B: Dry heat	EN 60068-2-2 ^{2) 3)}	1993
IEC 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 60068-2-11	-	Environmental testing - Part 2: Tests - Test Ka: Salt mist	EN 60068-2-11	-
IEC 60068-2-13	-	Environmental testing - Part 2: Tests - Test M: Low air pressure	EN 60068-2-13	-
IEC 60068-2-14	2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	EN 60068-2-14	2009
IEC 60068-2-17	-	Environmental testing - Part 2: Tests - Test Q: Sealing	EN 60068-2-17	-
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	EN 60068-2-20	-
IEC 60068-2-27	-	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	-
IEC 60068-2-29	-	Environmental testing - Part 2: Tests - Test Eb and guidance: Bump	EN 60068-2-29	_4)
IEC 60068-2-30	-	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	EN 60068-2-30	-

¹⁾ EN 60068-2-1 is superseded by EN 60068-2-1:2007, which is based on IEC 60068-2-1:2007.

 $^{^{2)}\,\}mathrm{EN}$ 60068-2-2 includes supplement(s) A to IEC 60068-2-2.

 $^{^{3)}}$ EN 60068-2-2 is superseded by EN 60068-2-2:2007, which is based on IEC 60068-2-2:2007.

⁴⁾ EN 60068-2-29 is superseded by EN 60068-2-27:2009, which is based on IEC 60068-2-27:2009.

Publication IEC 60068-2-42	<u>Year</u> -	Title Environmental testing - Part 2-42: Tests - Test Kc: Sulphur dioxide test for contacts and connections	<u>EN/HD</u> EN 60068-2-42	<u>Year</u> -
IEC 60068-2-52 + corr. July	1996 1996	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	EN 60068-2-52	1996
IEC 60068-2-54	-	Environmental testing - Part 2-54: Tests - Test Ta: Solderability testing of electronic components by the wetting balance method	EN 60068-2-54	-
IEC 60068-2-61	1991	Environmental testing - Part 2: Test methods - Test Z/ABDM: Climatic sequence	EN 60068-2-61	1993
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-
IEC 60457-1	-	Rigid precision coaxial lines and their associated precision connectors - Part 1: General requirements and measuring methods	HD 351.1 S1	-
IEC 60617	Data- base	Graphical symbols for diagrams	-	-
IEC 61726	-	Cable assemblies, cables, connectors and passive microwave components - Screening attenuation measurement by the reverberation chamber method	EN 61726 n	-
IEC 62037	Series	Passive RF and microwave devices, intermodulation level measurement	EN 62037	Series
IEC 62153	Series	Metallic communication cables test methods	EN 62153	Series
ISO 1000	_5)	SI units and recommendations for the use of their multiples and of certain other units	-	-

⁵⁾ ISO 1000:1992 has been withdrawn.



IEC 61169-1

Edition 2.0 2013-07

INTERNATIONAL STANDARD



Radio frequency connectors -

Part 1: Generic specification – General requirements and measuring methods





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IEC 61169-1

Edition 2.0 2013-07

INTERNATIONAL STANDARD



Radio frequency connectors -

Part 1: Generic specification – General requirements and measuring methods

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRICE CODE XA

ICS 33.120.30 ISBN 978-2-8322-0925-7

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO FREQUENCY CONNECTORS -

Part 1: Generic specification – General requirements and measuring methods

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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

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koniec náhľadu – text ďalej pokračuje v platenej verzii STN