



SLOVENSKI STANDARD

SIST EN 61169-39:2011

01-julij-2011

Radiofrekvenčni konektorji - 39. del: Področna specifikacija za radiofrekvenčne (RF) zaklepne konektorje serije CQM (IEC 61169-39:2009)

Radio-frequency connectors - Part 39: Sectional specification for CQM series quick lock RF connectors (IEC 61169-39:2009)

Hochfrequenz-Steckverbinder - Teil 39: Rahmenspezifikation für HF-Steckverbinder der CQM-Serie mit Schnellverriegelung (IEC 61169-39:2009)

Connecteurs pour fréquences radioélectriques - Partie 39: Spécification intermédiaire pour les connecteurs RF à verrouillage rapide de la série CQM (CEI 61169-39:2009)

[https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-](https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011)

[73f8b880e8ef/sist-en-61169-39-2011](https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011)

Ta slovenski standard je istoveten z: EN 61169-39:2011

ICS:

33.120.30 Radiofrekvenčni konektorji R.F. connectors
(RF)

SIST EN 61169-39:2011

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61169-39:2011

<https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61169-39

May 2011

ICS 33.120.30

English version

**Radio-frequency connectors -
Part 39: Sectional specification for CQM series quick lock RF connectors
(IEC 61169-39:2009)**

Connecteurs pour fréquences
radioélectriques – Partie 39: Spécification
intermédiaire pour les connecteurs RF à
verrouillage rapide de la série CQM
(CEI 61169-39:2009)

Hochfrequenz-Steckverbinder -
Teil 39: Rahmenspezifikation für HF-
Steckverbinder der CQM-Serie mit
Schnellverriegelung
(IEC 61169-39:2009)

iTeh STANDARD PREVIEW

This European Standard was approved by CENELEC on 2011-01-02. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 46F/107/CDV, future edition 1 of IEC 61169-39, 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 was approved by CENELEC as EN 61169-39 on 2011-01-02.

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

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2011-10-02 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2014-01-02 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61169-39:2009 was approved by CENELEC as a European Standard without any modification. (standards.iteh.ai)

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 62037 SIST EN 61169-39:2011
 NOTE Harmonized as EN 62037,
<https://standards.cen.eu/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011>

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

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>	<u>EN/HD</u>	<u>Year</u>
IEC 61169-1	1992	Radio-frequency connectors – Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	1994

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 61169-39:2011](#)

<https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61169-39:2011

<https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011>



IEC 61169-39

Edition 1.0 2009-06

INTERNATIONAL STANDARD

Radio-frequency connectors –
Part 39: Sectional specification for CQM series quick lock RF connectors

STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61169-39:2011
<https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011>

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

PRICE CODE

U

ICS 33.120.30

ISBN 978-2-88910-431-4

CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Mating interface and gauge information.....	6
3.1 Dimensions-General connectors – Grade 2	7
3.1.1 Connector with pin-centre contact.....	7
3.1.2 Connectors with socket-centre contact	8
3.2 Gauges	9
3.2.1 Connectors with socket-centre contact	9
3.3 Dimensions – standard test connectors – Grade 0.....	11
3.3.1 Connector with pin-centre contact.....	11
3.3.2 Connector with socket-centre contact	13
4 Quality assessment procedure.....	14
4.1 General.....	14
4.2 Rating and characteristics (see Clause 6 of IEC 61169-1).....	14
4.3 Test schedule and inspection requirements.....	17
4.3.1 Acceptance tests	17
4.3.2 Periodic tests.....	18
4.4 Procedures.....	19
4.4.1 Quality conformance inspection.....	19
4.4.2 Qualification approval and its maintenance.....	19
5 Instructions for preparation of detail specifications.....	19
5.1 General.....	19
5.2 Identification of the detail specification	20
5.3 Identification of the component.....	20
5.4 Performance.....	20
5.5 Marking, ordering information and related matters	20
5.6 Selection of tests, test conditions and severities.....	20
5.7 Blank detail specification pro-forma for type CQM connector	21
Bibliography.....	26
Figure 1 – Connector with pin-centre contact (for dimensions, see Table 1).....	7
Figure 2 – Connector with socket-centre contact (for dimensions, see Table 2)	8
Figure 3 – Gauge for outer contact of socket connector (for dimensions, see Table 3).....	9
Figure 4 – Gauge pin for socket contact (for dimensions, see Table 4)	9
Figure 5 – Connector of pin-centre contact (for dimensions, see Table 5).....	11
Figure 6 – Standard test connector with socket-centre contact (for dimensions, see Table 6)	13
Table 1 – Dimensions of connector with pin-centre contact.....	7
Table 2 – Dimensions of connector with socket-centre contact.....	8
Table 3 – Dimensions of gauge for outer contact of socket connector	9
Table 4 – Dimensions of gauge pin for socket contact.....	10
Table 5 – Dimensions of connector with pin-centre contact.....	12

Table 6 – Dimensions of standard test connector with socket-centre contact	14
Table 7 – Ratings and characteristics	15
Table 8 – Acceptance tests	17
Table 9 – Periodic tests	18

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 61169-39:2011

<https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 39: Sectional specification for CQM series quick lock RF connectors**

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 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 61169-39 has been prepared by subcommittee 46F: RF and microwave passive components, of IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

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

CDV	Report on voting
46F/107/CDV	46F/133/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.

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

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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 list of all parts of the IEC 61169 series can be found, under the general title *Radio-frequency connectors*, on the IEC website.

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

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN 61169-39:2011](#)

<https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-73f8b880e8ef/sist-en-61169-39-2011>

RADIO-FREQUENCY CONNECTORS –

Part 39: Sectional specification for CQM series quick lock RF connectors

1 Scope

CQM series quick lock connectors with characteristic impedance 50 Ω are used for high power microwave applications, connecting with RF cables or microstrips. The operating frequency limit is at least 4 GHz.

This sectional specification provides information and rules for the preparation of detail specifications for CQM series quick lock RF connectors together with the pro forma blank detail specification (DS).

It also prescribes mating interface dimensions for general purpose connectors, dimensional details of standard test connectors grade 0, gauging information and tests selected from IEC 61169-1, applicable to all detail specifications relating to CQM series connectors.

This specification indicates the 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.

2 Normative references

[SIST EN 61169-39:2011](https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-7b1f82183c4c/iec-61169-39-2011)

[https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-](https://standards.iteh.ai/catalog/standards/sist/81cc89f4-ac07-46ed-b500-7b1f82183c4c/iec-61169-39-2011)

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 61169-1:1992, *Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

3 Mating interface and gauge information

All undimensioned pictorial configurations are for reference purposes only.