

BS EN 61169-39:2011



BSI Standards Publication

Radio-frequency connectors

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

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This British Standard is the UK implementation of EN 61169-39:2011. It is identical to IEC 61169-39:2009. It supersedes DD IEC/PAS 61169-39:2008, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/46, Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling.

A list of organizations represented on this committee can be obtained on request to its secretary.

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ISBN 978 0 580 61964 9

ICS 33.120.30

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 July 2011.

Amendments issued since publication

Amd. No.	Date	Text affected
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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)

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

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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.

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

IEC 62037	NOTE Harmonized as EN 62037.
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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

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RADIO-FREQUENCY CONNECTORS –

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

1 Scope

CQM series quick lock connectors with characteristic impedance $50\ \Omega$ 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

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.

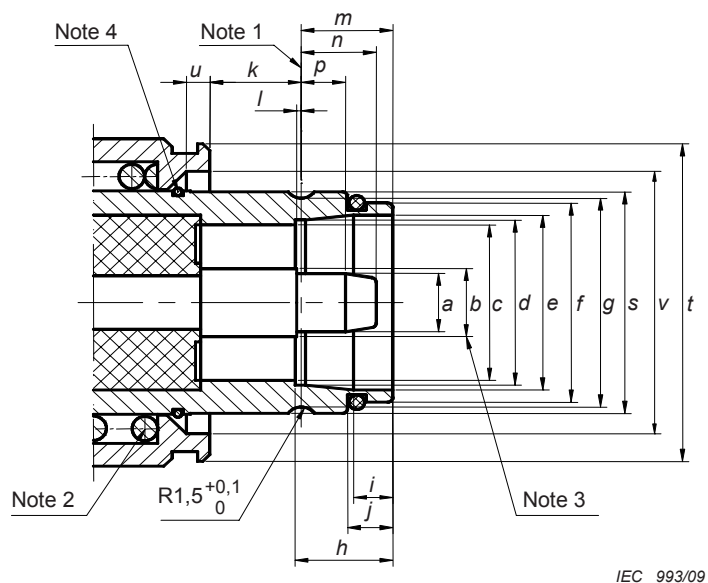
IEC 61169-1:1992, *Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

3 Mating interface and gauge information

All undimensioned pictorial configurations are for reference purposes only.

3.1 Dimensions-General connectors – Grade 2

3.1.1 Connector with pin-centre contact



IEC 993/09

Figure 1 – Connector with pin-centre contact (for dimensions, see Table 1)

Table 1 – Dimensions of connector with pin-centre contact

Reference	mm		Note
	min	max	
<i>a</i>	5,96	6,04	Diameter
<i>b</i>	7(nominal)		Diameter
<i>c</i>	15,85	16,25	Diameter
<i>d</i>	16,90	17,10	Diameter
<i>e</i>	18,00	18,20	Diameter
<i>f</i>	21,00	21,20	Diameter
<i>g</i>	21,90	22,10	Diameter
<i>h</i>	8,90	9,20	
<i>i</i>	3,70	3,90	
<i>j</i>	4,30	4,50	
<i>k</i>	-	9,80	
<i>l</i>	0,30	0,50	
<i>m</i>	8,80	9,00	
<i>n</i>	7,20	7,40	
<i>p</i>	4,20	4,40	
<i>s</i>	23,20	23,30	Diameter
<i>t</i>	35,00	35,20	Diameter
<i>u</i>	2,10	2,30	
<i>v</i>	26,9	27,2	Diameter

NOTE 1 Mechanical reference plane.

NOTE 2 The spring force is 50 N to 60 N max.

NOTE 3 Tolerances of dimensions are to meet the requirements of characteristic impedances.

NOTE 4 Ring.