

CEI EN 61169-41**2012-01**

La seguente Norma è identica a: EN 61169-41:2011-04.

*Titolo***Connettori per radiofrequenza
Parte 41: Specifica settoriale per connettori coassiali per
radiofrequenza ad innesto rapido della serie CQA***Title***Radio-frequency connectors
Part 41: Sectional specification for CQA series quick lock RF coaxial
connectors***Sommario*

La Norma fornisce informazioni e regole per la preparazione di specifiche di dettaglio di connettori coassiali per radiofrequenza a innesto rapido della serie CQA nonché lo schema delle specifiche in bianco. La Norma prescrive inoltre le dimensioni dell'interfaccia di accoppiamento per connettori di uso generale di grado 2, dettagli dimensionali per connettori a prova standard di grado 0, informazioni e prove di misura selezionate dalla norma IEC 61169-1 e applicabili a tutte le specifiche di dettaglio relative ai connettori per radiofrequenza della serie CQA. La Norma indica inoltre sia le caratteristiche di prestazione che debbono essere considerate quando si scrive una specifica di dettaglio sia le prescrizioni di ispezione e la schedulazione delle prove per la valutazione dei livelli M e H.

La Norma cancella e sostituisce la IEC/PAS 61169-18 pubblicata nel 2009, di cui costituisce una revisione su aspetti secondari: l'unico cambiamento riguarda infatti il cambiamento del PAS in Standard Internazionale.

Questa Norma viene pubblicata dal CEI nella sola lingua inglese in quanto particolarmente mirata a settori specialistici.

La presente Norma recepisce il testo originale inglese della Pubblicazione IEC.



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English version

**Radio-frequency connectors -
Part 41: Sectional specification for CQA series quick lock R.F. coaxial
connectors
(IEC 61169-41:2011)**

Connecteurs pour fréquences
radioélectriques -
Partie 41: Spécification intermédiaire pour
connecteurs coaxiaux R.F. à verrouillage
rapide, série CQA
(CEI 61169-41:2011)

Hochfrequenz-Steckverbinder -
Teil 41: Rahmenspezifikation für koaxiale
HF-Steckverbinder der CQA-Serie mit
Schnellverriegelung
(IEC 61169-41:2011)

This European Standard was approved by CENELEC on 2011-03-30. 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.

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CENELEC

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/140/CDV, future edition 1 of IEC 61169-41, 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 61169-41 on 2011-03-30.

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) 2011-12-30
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2014-03-30

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61169-41:2011 was approved by CENELEC as a European Standard without any modification.

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 -	EN 61169-1	1994
+ A1	1996	Part 1: Generic specification - General	+ A1	1996
+ A2	1997	requirements and measuring methods	+ A2	1997



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NORME INTERNATIONALE



**Radio-frequency connectors –
Part 41: Sectional specification for CQA series quick lock R.F. coaxial
connectors**

**Connecteurs pour fréquences radioélectriques –
Partie 41: Spécification intermédiaire pour connecteurs coaxiaux R.F. à
verrouillage rapide, série CQA**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 41: Sectional specification for CQA series
quick lock R.F. coaxial connectors**

FOREWORD

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International Standard IEC 61169-41 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 first edition cancels and replaces IEC/PAS 61169-41, published in 2009, of which it constitutes a minor revision. The only change is that the PAS has been changed into and International Standard.

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

CDV	Report on voting
46F/140/CDV	46F/164/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.

The French version of this standard has not been voted upon.

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

A list of all parts of 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.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning

- “high frequency self-lock connector” given in patent No. ZL 200610104844.6;
- “lock setup of a high frequency self-lock connector” given in patent No. ZL 200620136072.X.

IEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he/she is willing to negotiate licences free of charge with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with IEC. Information may be obtained from:

Xi'an forstar S&T CO., LTD.

No.71 Jinye Road Hi-tech Zone Xi'an R.P China.

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RADIO-FREQUENCY CONNECTORS –

Part 41: Sectional specification for CQA series quick lock R.F. coaxial connectors

1 Scope

CQA series quick lock connectors with characteristic impedance 50Ω are used in microwave, telecommunication, wireless and other fields, connecting with RF cables or micro-strips. The operating frequency limit is up to 18 GHz.

This sectional specification provides information and rules for preparation of detail specification of CQA series quick lock R.F. coaxial connectors together with the pro-forma blank detail specification.

It also prescribes mating face dimensions for general connectors - grade 2, dimensional detail of standard test connectors - grade 0, gauging information and tests selected from IEC 61169-1 applicable to all detail specifications relating to CQA series RF connectors.

This specification indicates 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.

CQA series connector with pin-centre contact can mate with SMA series connector with socket-centre contact, when mating with SMA series connector, an adjunct is required; the adjunct should meet the requirement of Annex A.