

BS EN 61169-45:2014



BSI Standards Publication

## Radio-frequency connectors

Part 45: Sectional specification for series SQMA series quick lock RF coaxial connectors

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### **National foreword**

This British Standard is the UK implementation of EN 61169-45:2014. It is identical to IEC 61169-45:2014.

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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English Version

Radio-frequency connectors -Part 45: Sectional specification for  
series SQMA series quick lock RF coaxial connectors  
(IEC 61169-45:2014)

Connecteurs pour fréquences radioélectriques - Partie 45:  
Spécification intermédiaire relative aux connecteurs  
coaxiaux RF à verrouillage rapide, série SQMA  
(CEI 61169-45:2014)

Hochfrequenz-Steckverbinder - Teil 45:  
Rahmenspezifikation für koaxiale HF Steckverbinder der  
SQMA-Serie mit Schnellverriegelung  
(IEC 61169-45:2014)

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of document 46F/238/CDV, future edition 1 of IEC 61169-45, 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 61169-45:2014.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-03-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-06-27

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## **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 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61169-1	2013	Radio-frequency connectors -- Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	2013

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## **RADIO-FREQUENCY CONNECTORS –**

### **Part 45: Sectional specification for SQMA series quick lock RF coaxial connectors**

#### **1 Scope**

This part of IEC 61169, which is a sectional specification (SS), provides information and rules for the preparation of detail specifications (DS) for type SQMA quick lock RF coaxial connectors.

The connectors are normally used with 50  $\Omega$  in microwave, telecommunication, wireless and other fields, connecting with RF cables or micro-strips. The operating frequency limit is up to 18 GHz.

It describes the interface dimensions for general purpose connectors grade 2 and standard test connectors – grade 0 with gauging information and the mandatory tests selected from IEC 61169-1, applicable to all detail specifications relative to type SQMA connectors.

This specification indicates the recommended performance characteristics to be considered when writing a DS and covers all tests schedules and inspection requirements for assessment levels M and H.

#### **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 61169-1:2013, *Radio-frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

#### **3 Mating face and gauge information**

##### **3.1 Dimensions – General connectors – Grade 2**

###### **3.1.1 Connector with pin-centre contact (see Figure 1)**

Metric dimension are original dimensions. All undimensioned pictorial configurations are for reference purpose only.