



NSAI
Standards

Irish Standard
I.S. EN 61169-43:2013

Radio-frequency connectors -- Part 43:
Sectional specification for RBMA series
blind mating RF coaxial connectors (IEC
61169-43:2013 (EQV))

I.S. EN 61169-43:2013

Incorporating amendments/corrigenda issued since publication:

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| NSAI 1 Swift Square, Northwood, Santry Dublin 9 | T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie | Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie |
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EUROPEAN STANDARD

EN 61169-43

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May 2013

ICS 33.120.30

English version

**Radio-frequency connectors -
Part 43: Sectional specification for RBMA series blind mating
RF coaxial connectors
(IEC 61169-43:2013)**

Connecteurs pour fréquences
radioélectriques -
Partie 43: Spécification intermédiaire pour
connecteurs coaxiaux R.F. à couplage
aveugle, série RBMA
(CEI 61169-43:2013)

Hochfrequenz-Steckverbinder -
Teil 43: Rahmenspezifikation für koaxiale
HF Steckverbinder der RBMA-Serie, blind
steckbar
(IEC 61169-43:2013)

This European Standard was approved by CENELEC on 2013-04-24. 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.

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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/221/FDIS, future edition 1 of IEC 61169-43, 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 61169-43:2013.

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) 2014-01-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-04-24

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Endorsement notice

The text of the International Standard IEC 61169-43:2013 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 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> | <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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CONTENTS

| | |
|---|----|
| FOREWORD..... | 4 |
| 1 Scope..... | 6 |
| 2 Normative references | 6 |
| 3 Mating face and gauge information | 6 |
| 3.1 Dimensions – General connectors – Grade 2..... | 6 |
| 3.1.1 Connector with pin-centre contact..... | 6 |
| 3.1.2 Connector with socket-centre contact | 8 |
| 3.2 Gauges | 9 |
| 3.2.1 Gauge pin for socket-centre contact | 9 |
| 3.2.2 Gauge for outer contact of connector with pin-centre contact..... | 10 |
| 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 | 12 |
| 3.4 General requirements for connector mounting in modules and on panels..... | 13 |
| 3.4.1 Limits of permissible connector radial misalignment and axial misalignment | 13 |
| 3.4.2 Specific connector mounting details..... | 16 |
| 4 Quality assessment procedure..... | 16 |
| 4.1 General | 16 |
| 4.2 Rating and characteristics (see Clause 6 of IEC 61169-1:1992) | 17 |
| 4.3 Test schedule and inspection requirements | 20 |
| 4.3.1 Acceptance tests | 20 |
| 4.3.2 Periodic tests..... | 21 |
| 4.4 Procedures..... | 22 |
| 4.4.1 Quality conformance inspection | 22 |
| 4.4.2 Qualification approval and its maintenance | 22 |
| 5 Instructions for preparation of detail specifications | 23 |
| 5.1 General | 23 |
| 5.2 Identification of the component..... | 23 |
| 5.3 Performance..... | 23 |
| 5.4 Marking, ordering information and related matters | 23 |
| 5.5 Selection of tests, test conditions and severities..... | 23 |
| 5.6 Blank detail specification pro-forma for series RBMA connectors..... | 24 |
| Figure 1 – Connector with pin- centre contact | 7 |
| Figure 2 – Connector with socket-centre contact..... | 8 |
| Figure 3 – Gauge pin for socket-centre contact..... | 9 |
| Figure 4 – Gauge for outer contact of connector with pin-centre contact | 10 |
| Figure 5 – Connector with pin-centre contact (G0) | 11 |
| Figure 6 – Connector with socket-centre contact..... | 12 |
| Figure 7 – Rigidly mounted connector with socket-centre contact and rigidly mounted connector with pin-centre contact radial misalignment limits | 14 |
| Figure 8 – Rigidly mounted connector with socket-centre contact and float-mounted connector with pin-centre contact radial misalignment limits | 14 |
| Figure 9 – Floating connector self-aligned | 15 |
| Figure 10 – Separation between the two reference planes | 16 |

| | |
|--|----|
| Figure 11 – Axial misalignment limits | 16 |
| 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 pin for socket-centre contact..... | 9 |
| Table 4 – Gauge for outer contact of connector with pin-centre contact | 10 |
| Table 5 – Dimensions of connector with pin-centre contact (G0) | 12 |
| Table 6 – Dimensions of connector with socket-centre contact..... | 13 |
| Table 7 – Rating and characteristics | 17 |
| Table 8 – Acceptance tests | 20 |
| Table 9 – Periodic tests | 21 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 43: Sectional specification for RBMA series
blind mating RF coaxial connectors**

FOREWORD

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International Standard IEC 61169-43 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 61169-43 published in 2010. This edition constitutes a technical revision.

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

| | |
|--------------|------------------|
| FDIS | Report on voting |
| 46F/221/FDIS | 46F/227/RVD |

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.

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.

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.

RADIO-FREQUENCY CONNECTORS –

Part 43: Sectional specification for RBMA series blind mating 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 RBMA series RF coaxial connectors, with characteristic impedance of 50 Ω , with threaded coupling and operating frequency limit up to 12,4 GHz, used in wireless, microwave, telecommunication, and other fields, connecting with RF cables or micro-strips.

It also prescribes mating face dimensions for general connectors-grade 2, dimensional details of standard test connectors-grade 0, gauging information and tests selected from IEC 61169-1, applicable to all detail specifications relating to RBMA 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 (see Tables 8 and 9).

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

Amendment 1:1996

Amendment 2:1997

3 Mating face and gauge information

3.1 Dimensions – General connectors – Grade 2

3.1.1 Connector with pin-centre contact

All undimensioned pictorial configurations are for reference purpose only.

¹ There exists a consolidated edition 1.2 (1998) that comprises IEC 61169-1:1992, its Amendment 1:1996 and its Amendment 2:1997.

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