



NSAI
Standards

Irish Standard
I.S. EN 61169-18:2011

Radio-frequency connectors -- Part 18:
Sectional specification - Radio
frequency coaxial connectors of type
SSMA (IEC 61169-18:2011 (EQV))

I.S. EN 61169-18:2011

Incorporating amendments/corrigenda issued since publication:

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EUROPEAN STANDARD

EN 61169-18

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March 2011

ICS 33.120.30

English version

**Radio-frequency connectors -
Part 18: Sectional specification -
Radio frequency coaxial connectors of type SSMA
(IEC 61169-18:2011)**

Connecteurs pour fréquences
radioélectriques -
Partie 18: Spécification intermédiaire -
Connecteurs coaxiaux pour fréquences
radioélectriques de type SSMA
(CEI 61169-18:2011)

Hochfrequenz-Steckverbinder -
Teil 18: Rahmenspezifikation -
Hochfrequenz-Koaxial-Steckverbinder des
Typs SSMA
(IEC 61169-18:2011)

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

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CENELEC

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

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I.S. EN 61169-18:2011

EN 61169-18:2011

- 2 -

Foreword

The text of document 46F/136/CDV, future edition 1 of IEC 61169-18, 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 61169-18 on 2011-03-03.

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- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2014-03-03

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61169-18:2011 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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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Mating face and gauge information.....	6
3.1 Dimensions - High performance connectors – Grade 1	6
3.1.1 Connector with pin-centre contact.....	7
3.1.2 Connector with socket-centre contact	8
3.2 Gauges	9
3.2.1 Gauge pins for socket-centre contact.....	9
3.2.2 Test procedure	9
3.3 Dimensions - standard test connectors – Grade 0	10
3.3.1 Connector with pin-centre contact.....	10
3.3.2 Connector with socket-centre contact	11
4 Quality assessment procedure.....	12
4.1 General.....	12
4.2 Standard ratings and characteristics (see Clause 6 of IEC 61169-1).....	12
4.3 Test schedule and inspection requirements – Acceptance tests.....	15
4.3.1 Acceptance tests	15
4.3.2 Periodic tests	15
4.4 Procedures.....	18
4.4.1 Quality conformance inspection	18
4.4.2 Qualification approval and its maintenance.....	18
5 Instructions for preparation of detail specifications	18
5.1 General.....	18
5.2 Identification of the component.....	18
5.3 Performance.....	19
5.4 Marking, ordering information and related matters	19
5.5 Selection of tests, test conditions and severities.....	19
5.6 Blank detail specification pro-forma for type SSMA connector	20
Figure 1 – Connector with pin-centre contact (for dimensions and notes, see Table 1).....	7
Figure 2 – Connector with socket-centre contact (for dimensions and notes, see Table 2).....	8
Figure 3 – Gauge pins for socket-centre contact (for dimensions and notes, see Table 3).....	9
Figure 4 – Connector with pin-centre contact (for dimensions and notes, see Table 4).....	10
Figure 5 – Connector with socket-centre contact (for dimensions and notes, see Table 5).....	11

I.S. EN 61169-18:2011

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– 3 –

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 pins for socket-centre contact	9
Table 4 – Dimensions of connector with pin-centre contact	10
Table 5 – Dimensions of connector with socket-centre contact.....	12
Table 6 – Rating and characteristics	13
Table 7 – Acceptance tests	15
Table 8 – Periodic tests	16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 18: Sectional specification –
Radio frequency coaxial connectors of type SSMA**

FOREWORD

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International Standard IEC 61169-18 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 61169-18, published in 2009, of which it constitutes a minor revision. The only change between the PAS and this standard is the removal of inch dimensions for each of the figures.

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

CDV	Report on voting
46F/136/CDV	46F/162/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.

RADIO-FREQUENCY CONNECTORS –

Part 18: Sectional specification – Radio frequency coaxial connectors of type SSMA

1 Scope

SSMA series connectors with characteristic impedance 50 Ω are used for millimeter wave applications, connecting with RF cables or micro strips. The operating frequency limit is up to 35 GHz. The coupling thread is 10-36 UNS thread.

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

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

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 61169-1:1998/1992, *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 – High performance connectors – Grade 1

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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