

**Radio-frequency connectors - Part 49: Sectional  
specification for SMAA series R.F connectors**

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English Version

Radio-frequency connectors - Part 49: Sectional specification for  
SMAA series R.F connectors  
(IEC 61169-49:2014)

Connecteurs pour fréquences radioélectriques - Partie 49:  
Spécification intermédiaire relative aux connecteurs RF  
série SMAA  
(CEI 61169-49:2014)

Hochfrequenz-Steckverbinder - Teil 49:  
Rahmenspezifikation für Hochfrequenz-Steckverbinder der  
Serie SMAA  
(IEC 61169-49:2014)

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## Foreword

The text of document 46F/259/FDIS, future edition 1 of IEC 61169-49, 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 61169-49:2014.

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) 2015-05-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-06-12

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IEC 61169-35

NOTE Harmonised as EN 61169-35.

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## RADIO-FREQUENCY CONNECTORS –

### Part 49: Sectional specification for SMAA series R.F 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 SMAA series thread mated coaxial connectors.

The connectors are normally used for micro wave applications, connecting with 50  $\Omega$  RF cables or microstrips in an operating range up to 27 GHz.

These connectors can be intermated with SMA (IEC 60169-15), 3,5 mm (IEEE 287-2007), 2,92 mm (IEC 61169-35) connectors.

It also prescribes mating face dimensions for high performance connectors grade 1, dimensional details of standard test connectors grade 0, for general purpose with gauging information and the mandatory tests selected from IEC 61169-1, applicable to all detail specifications relative to type SMAA connectors.

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

NOTE Metric dimension are original dimensions.

All undimensioned pictorial configurations are for reference purpose only.

#### 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*

IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 62037 (all parts), *Passive RF and microwave devices, intermodulation level measurement*