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fUX]cZY_j Yb b]_cU_g]U b]_cbY_lcf]. bUj c'b]žbU] b]žnU_`Ydb]žnXfgb]`fhUgfc`Uc
]b`d`cý cŁ!`?UfU_hf]gh] bU]a dYXUbWU) \$`c\ a cj `fh]d`%\$#& Ł!`I dcfUVU`nU) \$
c\ a cj `]b`+) `c\ a cj `f97`*%%-!&.&\$) Ł

Radio-frequency connectors - Part 29: Sectional specification - Miniature radio frequency coaxial connectors model screw, snap-on, push-pull or quick-lock, slide-in (rack and panel applications) - Characteristic impedance 50 ohms (type 1,0/2,3) - 50 ohms and 75 ohms applications (IEC 61169-29:2005)

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Hochfrequenz-Steckverbinder - Teil 29: Rahmenspezifikation - Koaxiale Miniatur-Hochfrequenzsteckverbinder mit Schraub-, Einrast-, Push-pull- oder Schnellverschluss-, Einschubkupplung (Einschubausführung) - Wellenwiderstand 50-Ohm (Typ 1,0/2,3) - 50-Ohm- und 75-Ohm-Anwendungen (IEC 61169-29:2005)

Connecteurs pour fréquences radioélectriques - Partie 29: Spécification intermédiaire - Connecteurs coaxiaux miniatures pour fréquences radioélectriques avec accouplements de type vis, pousser-tirer et encliquetage, ou glis (applications de "panneau" et "fond de panier") - Impédance caractéristique 50 ohms (type 1,0/2,3) - Applications a 50 ohms et 75 ohms (IEC 61169-29:2005)

Ta slovenski standard je istoveten z: EN 61169-29:2005

ICS:

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SIST EN 61169-29:2008**en,fr,de**

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**Radio-frequency connectors
Part 29: Sectional specification –
Miniature radio frequency coaxial connectors model screw, snap-on,
push-pull or quick-lock, slide-in (rack and panel applications) –
Characteristic impedance 50 ohms (type 1,0/2,3) –
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Koaxiale Miniatur-Hochfrequenzsteckverbinder
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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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 46F/27/FDIS, future edition 1 of IEC 61169-29, 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 IEC-CENELEC parallel vote and was approved by CENELEC as EN 61169-29 on 2005-07-01.

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) 2006-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2008-07-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61169-29:2005 was approved by CENELEC as a European Standard without any modification.

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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 Where 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 Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	1994

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First edition
2005-06

Connecteurs pour fréquences radioélectriques –

Partie 29:

Spécification intermédiaire –

Connecteurs coaxiaux miniatures pour fréquences radioélectriques avec accouplements de type vis, pousser-tirer et encliquetage, ou glis (applications de «panneau» et «fond de panier») –

Impédance caractéristique 50 Ω (type 1,0/2,3) –

Applications à 50 Ω et 75 Ω

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Part 29:

Sectional specification –

Miniature radio frequency coaxial connectors model screw, snap-on, push-pull or quick-lock, slide-in (rack and panel applications) –

Characteristic impedance 50 Ω (type 1,0/2,3) –

50 Ω and 75 Ω applications

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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CONTENTS

FOREWORD.....	5
1 Scope.....	9
2 Normative references	9
3 IEC type designation	11
4 Interface information.....	13
4.1 Dimensions	13
4.2 Gauges	21
5 Quality assessment procedures	29
5.1 General	29
5.2 Ratings and characteristics	29
5.3 Test schedule and inspection requirements.....	37
5.4 Procedures.....	43
6 Instructions for preparation of detail specifications	43
6.1 General	43
6.2 Identification of the detail specification	43
6.3 Identification of the component.....	43
6.4 Performance.....	45
6.5 Marking, ordering information and related matters.....	45
6.6 Selection of tests, test conditions and severities.....	45
6.7 Blank detail specification pro-forma for type 1,0/2,3 connector	47
Figure 1 – Interfaces (for dimensions, see Table 1).....	13
Figure 2 – Locking devices (for dimensions, see Table 2)	17
Figure 3 – Gauge pin for centre contact of socket connector.....	21
Figure 4 – Outer contact sizing and retention force gauges A and B	23
Figure 5 – Plug	25
Figure 6 – Socket	27
Table 1 – Dimensions of the interfaces	15
Table 2 – Dimensions of the locking devices.....	19

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 29: Sectional specification –
Miniature radio frequency coaxial connectors model screw, snap-on,
push-pull or quick-lock, slide-in (rack and panel applications) –
Characteristic impedance 50 Ω (type 1,0/2,3) –
50 Ω and 75 Ω applications**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61169-29 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 standard cancels and replaces IEC 60169-29, published in 1995.

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

FDIS	Report on voting
46F/27/FDIS	46F/30/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.

IEC 61169 consists of the following parts, under the general title *Radio-frequency connectors*:

- Part 1: Generic specification – General requirements and measuring methods
- Part 1-1: Single multi-series dual language blank detail specification (BDS)
- Part 2: Sectional specification – Radio frequency coaxial connectors of type 9,52
- Part 24: Sectional specification – Radio frequency coaxial connectors with screw coupling, typically for use in 75 ohm cable distribution systems (type F)
- Part 29: Sectional specification – Miniature radio frequency coaxial connectors model screw, snap-on, push-pull or quick-lock, slide-in (rack and panel applications) – Characteristic impedance 50 ohms (type 1,0/2,3) 50 and 75 ohms applications
- Part 31: RF coaxial with inner diameter of outer conductor 1,0 mm (0,039 in) with screw coupling – Characteristic impedance 50 ohms (type 1,0)
- Part 32: RF coaxial connectors with inner diameter of outer conductor 1,85 mm (0,072 in) with screw coupling – Characteristic impedance 50 ohms (type 1,85)
- Part 33: Sectional Specification (SS) for Type BMA R.F. connectors
- Part 36: Microminiature r.f. connectors with snap-on coupling – Characteristic impedance 50 Ohms (Type MCX)

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.

RADIO-FREQUENCY CONNECTORS –

Part 29: Sectional specification – Miniature radio frequency coaxial connectors model screw, snap-on, push-pull or quick-lock, slide-in (rack and panel applications) – Characteristic impedance 50 Ω (type 1,0/2,3) – 50 Ω and 75 Ω applications

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 RF coaxial connectors with screw, snap-on, push-pull or quick-lock, slide-in coupling (rack and panel applications) with a characteristic impedance of 50 Ω (type 1,0/2,3) for 50 Ω and 75 Ω applications.

The connectors are normally used with flexible and semi-rigid r.f. cables for low power applications in conjunction with 50 Ω cables in an operating frequency range up to 10 GHz or in conjunction with 75 Ω cables up to 2 GHz.

It describes the interface dimensions for general purpose grade 2 connectors, dimensional details for standard test connectors, grade 0, together with gauging information and the mandatory tests selected from IEC 61169-1 applicable to all DS relating to type 1,0/2,3 connectors.

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

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

3 IEC type designation

Type designations are given for each of the various coupling mechanisms:

- *Screw* – the coupling mechanism consists of a coupling nut (on the plug) and a thread (on the socket). The tightening torque is achieved by hand. The engagement and separation force depends on the mechanical dimensions of the inner and outer contacts of the plug and socket.
- *Snap on* – the coupling mechanism consists of a spring device (on the plug) that fits in a suitable shape of the body (on the socket). The engagement and separation force depends on the mechanical dimensions of the inner and outer contact, of the spring device and of the socket body. The coupling mechanism does not prevent accidental disengagements.
- *Push pull* or *Quick lock* (hereafter called push pull) – the coupling mechanism consists of a spring device (on the plug) that fits in a suitable shape of the body (on the socket). The engagement and separation force depends on the mechanical dimensions of the inner and outer contact, of the spring element and of the socket body. This coupling mechanism prevents accidental disengagements.
- *Slide in* – the coupling mechanism consists of a nut (on the plug) which allows a float mounting on the panel preventing a radial misalignment. The engagement and separation force depends on the mechanical dimensions of the inner and outer contacts of the plug and socket. In case of rack and panel applications, the separation range of panels may differ from the fully mated position by 1.7 mm.

Connectors conforming to this part of IEC 61169 shall be designated by:

- a) the reference to this part of IEC 61169: IEC 61169-29;
- b) the grade number:
 - Grade 0 = standard test connector = G0
 - Grade 2 = general purpose connector = G2
- c) identification number (see Clause 8 of IEC 61169-1).