



# SLOVENSKI STANDARD

## SIST EN 61169-24:2004

01-januar-2004

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**[Not translated]**

Radio-frequency connectors - Part 24: Sectional specification - Radio frequency coaxial connectors with screw coupling, typically for use in 75 ohm cable distribution systems (type F) (IEC 61169-24:2001)

Hochfrequenz-Steckverbinder - Teil 24 Rahmenspezifikation - Koaxiale Hochfrequenzsteckverbinder mit Schraubkupplung, vorzugsweise für den Einsatz in 75 Ohm Kabelverteilnetzen (Typ F) (IEC 61169-24:2001)

Connecteurs pour fréquences radioélectriques - Partie 24: Spécification intermédiaire - Connecteurs coaxiaux pour fréquences radioélectriques avec couplage vissé, spécifiquement utilisés dans les systèmes de distribution des câbles 75 ohm (série F) (CEI 61169-24:2001)

**Ta slovenski standard je istoveten z: EN 61169-24:2001**

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**ICS:**

31.220.10      Vtiči in vtičnice, konektorji      Plug-and-socket devices.  
Connectors

**SIST EN 61169-24:2004**

**en,fr,de**

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EUROPEAN STANDARD

**EN 61169-24**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2001

ICS 31.220.10

English version

**Radio-frequency connectors**  
**Part 24: Sectional specification -**  
**Radio frequency coaxial connectors with screw coupling,**  
**typically for use in 75 ohm cable distribution systems (type F)**  
(IEC 61169-24:2001)

Connecteurs pour fréquences  
radioélectriques  
Partie 24: Spécification intermédiaire -  
Connecteurs coaxiaux pour fréquences  
radioélectriques avec couplage vissé,  
spécifiquement utilisés dans les systèmes  
de distribution des câbles 75 ohm  
(série F)  
(CEI 61169-24:2001)

Hochfrequenz-Steckverbinder  
Teil 24 Rahmenspezifikation -  
Koaxiale Hochfrequenzsteckverbinder  
mit Schraubkupplung, vorzugsweise für  
den Einsatz in 75 Ohm Kabelverteilnetzen  
(Typ F)  
(IEC 61169-24:2001)

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This European Standard was approved by CENELEC on 2001-12-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, 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 46D/338/FDIS, future edition 1 of IEC 61169-24:2001, prepared by SC 46D, RF connectors, of IEC TC 46, Cables, wires, waveguides, RF connectors, and accessories for communication and signalling, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61169-24 on 2001-12-01.

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) 2002-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-12-01

Annexes designated "normative" are part of the body of the standard.  
In this standard, annex ZA is normative  
Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 61169-24:2001 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

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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

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NORME  
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61169-24

Première édition  
First edition  
2001-11

Connecteurs pour fréquences radioélectriques –

Partie 24:  
Spécification intermédiaire –  
Connecteurs coaxiaux pour fréquences  
radioélectriques avec couplage vissé,  
spécifiquement utilisés dans les systèmes  
de distribution des câbles 75 ohms (série F)

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Radio-frequency connectors –

Part 24:  
Sectional specification –  
Radio frequency coaxial connectors with  
screw coupling, typically for use in 75 ohm  
cable distribution systems (type F)

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

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Pour prix, voir catalogue en vigueur  
For price, see current catalogue

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## RADIO-FREQUENCY CONNECTORS –

**Part 24: Sectional specification –  
Radio frequency coaxial connectors with screw coupling,  
typically for use in 75 ohm cable distribution systems (type F)**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61169-24 has been prepared by subcommittee 46D: RF connectors, of IEC technical committee 46: Cables, wires, waveguides, RF connectors and accessories for communication and signalling.

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

FDIS	Report on voting
46D/338/FDIS	46D/341/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.

The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

## RADIO-FREQUENCY CONNECTORS –

### Part 24: Sectional specification – Radio frequency coaxial connectors with screw coupling, typically for use in 75 ohm cable distribution systems (type F)

#### 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 coupling, typically for use in 75  $\Omega$  cable distribution systems (type F).

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 F 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*

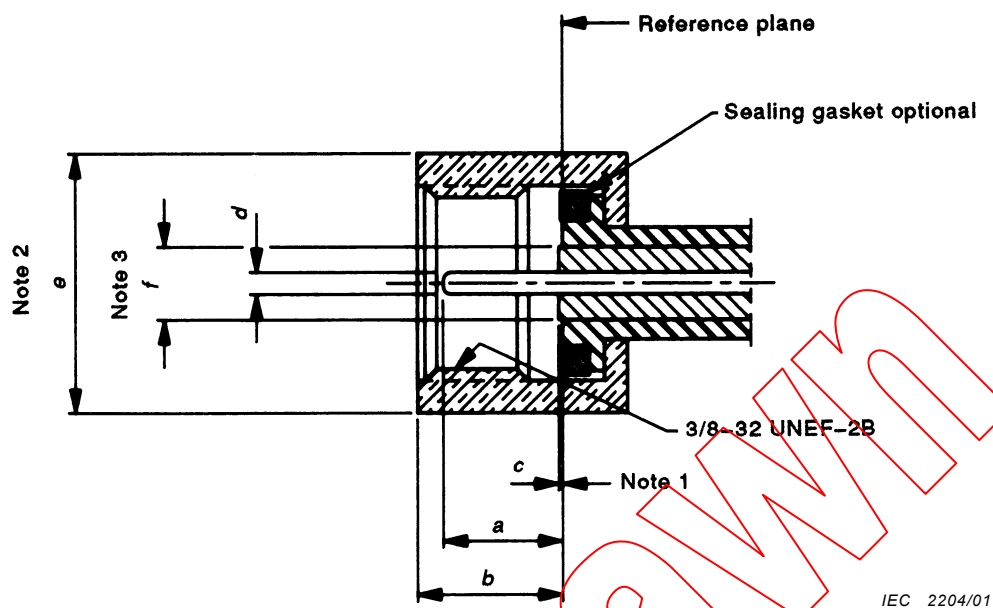
#### 3 Interface dimensions

##### 3.1 Dimensions

Millimetres are original dimensions.

All undimensioned pictorial configurations are for reference purposes only.

## 3.1.1 Connector with pin centre contact



For notes 1, 2 and 3, see next page.

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Reference	mm		in	
	Min.	Max.	Min.	Max.
a	4,95	6,86	0,195	0,270
b	—	7,29	—	0,287
c	—	0,25	—	0,010
d	0,51	1,63	0,020	0,064
e	—	12,95	—	0,510
f	—	3,8	—	0,149

Figure 1 – Connector with pin centre contact