

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)**

The European Standard EN 61169-24:2001 has the status of a
British Standard

ICS 29.120.20; 33.120.30

National foreword

This British Standard is the official English language version of EN 61169-24:2001. It is identical with IEC 61169-24:2001.

The UK participation in its preparation was entrusted by Technical Committee EPL/46, Cables, wires, waveguides, RF connectors and accessories for communication and signalling, to Subcommittee EPL/46/2, RF connectors and waveguides, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

From 1 January 1997, all IEC publications have the number 60000 added to the old number. For instance, IEC 27-1 has been renumbered as IEC 60027-1. For a period of time during the change over from one numbering system to the other, publications may contain identifiers from both systems.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Electrotechnical Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 13 February 2002

Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 18, an inside back cover and a back cover.

The BSI copyright date displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

© BSI 13 February 2002

ISBN 0 580 38972 3

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)

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.

Endorsement notice

The text of the International Standard IEC 61169-24:2001 was approved by CENELEC as a European Standard without any modification.

CONTENTS

1	Scope	4
2	Normative reference	4
3	Interface dimensions	4
3.1	Dimensions	4
3.2	Mechanical gauges	7
4	Quality assessment procedures	7
4.1	General	7
4.2	Ratings and characteristics	7
4.3	Test shedule and inspection requirements	9
4.4	Procedures	10
5	Instructions for preparation of detail specifications	11
5.1	General	11
5.2	Identification of the detail specification	11
5.3	Identification of the component	11
5.4	Performance	12
5.5	Marking, ordering information and related matters	12
5.6	Selection of tests, test conditions and severities	12
5.7	Blank detail specification pro-forma for type F connector	13
	Annex ZA (normative) Normative references to international publications with their corresponding European publications	18

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 Ω 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*

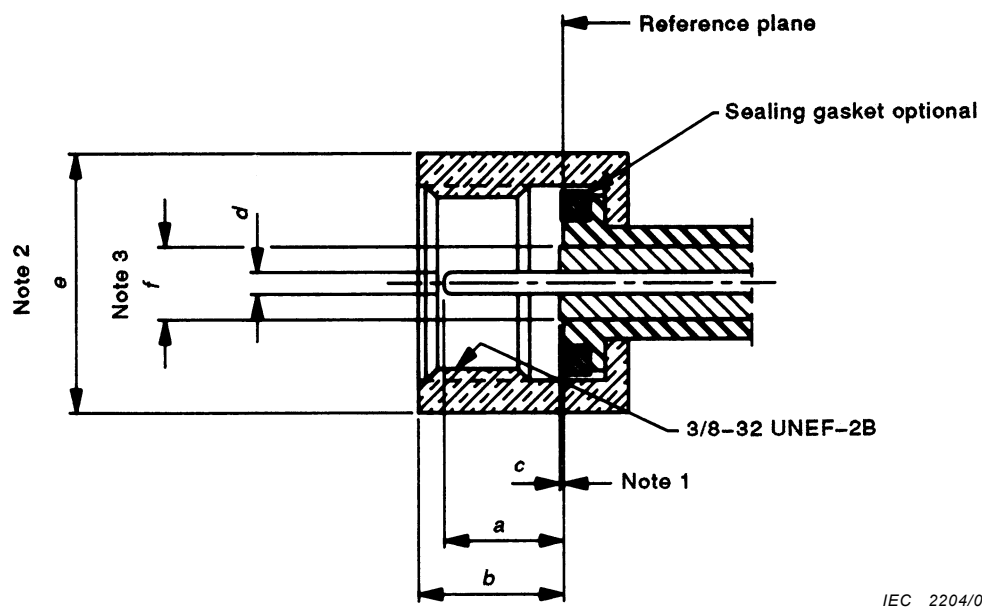
3 Interface dimensions

3.1 Dimensions

Millimetres are original dimensions.

All undimensioned pictorial configurations are for reference purposes only.

3.1.1 Connector with pin centre contact



IEC 2204/01

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

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