



BSI Standards Publication

Radio-frequency connectors

Part 64: Sectional specification — RF coaxial connectors with 0,8 mm inner diameter of outer conductor — Characteristic impedance 50 Ω (type 0,8)

National foreword

This British Standard is the UK implementation of EN IEC 61169-64:2025. It is identical to IEC 61169-64:2025. It supersedes BS EN IEC 61169-64:2019, which will be withdrawn on 30 November 2028.

The UK participation in its preparation was entrusted to Technical Committee EPL/46, Cables, wires and waveguides, radio frequency connectors and accessories for communication and signalling.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2025
Published by BSI Standards Limited 2025

ISBN 978 0 539 20769 9

ICS 33.120.30

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2025.

Amendments/corrigenda issued since publication

Date	Text affected
<hr/>	

English Version

Radio-frequency connectors - Part 64: Sectional specification -
RF coaxial connectors with 0,8 mm inner diameter of outer
conductor - Characteristic impedance 50 Ω (type 0,8)
(IEC 61169-64:2025)

Connecteurs pour fréquences radioélectriques - Partie 64:
Spécification intermédiaire - Connecteurs RF coaxiaux avec
un conducteur extérieur d'un diamètre intérieur de 0,8 mm -
Impédance caractéristique de 50 Ω (type 0,8)
(IEC 61169-64:2025)

Hochfrequenz-Steckverbinder - Teil 64:
Rahmenspezifikation für koaxiale HF-Steckverbinder mit 0,8
mm Innendurchmesser des Außenleiters -
Wellenwiderstand 50 Ω (Typ 0,8)
(IEC 61169-64:2025)

This European Standard was approved by CENELEC on 2025-11-26. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 46F/721/FDIS, future edition 2 of IEC 61169-64, prepared by SC 46F "RF and microwave passive components" of IEC/TC 46 "Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61169-64:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-11-30 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-11-30 document have to be withdrawn

This document supersedes EN IEC 61169-64:2019 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 61169-64:2025 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 documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61169-1	2013	Radio frequency connectors - Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	2013

CONTENTS

FOREWORD	3
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Mating face and gauge information	6
4.1 Material	6
4.2 Reference position	6
4.3 Datum system	6
4.4 Dimensions – High performance connector – Grade 1	6
4.4.1 Connector with pin centre contact – Grade 1	6
4.4.2 Connector with socket centre contact – Grade 1	7
4.5 Dimensions – Standard test connector – Grade 0	9
4.5.1 Connector with pin centre contact – Grade 0	9
4.5.2 Connector with socket centre contact – Grade 0	10
4.6 Optional design of coupling nut	11
4.7 Gauging of socket centre contacts	11
4.7.1 Gauge pins	11
4.7.2 Test sequence	12
5 Quality assessment procedures	12
5.1 General	12
5.2 Ratings and characteristics	12
5.3 Test schedule and inspection requirements	14
5.3.1 Acceptance tests	14
5.3.2 Periodic tests	14
5.4 Procedures for quality conformance	14
5.4.1 Quality conformance inspection	14
5.4.2 Quality conformance and its maintenance	14
6 Instructions for preparation of detail specifications	14
6.1 General	14
6.2 Identification of the component	14
6.3 Performance	14
6.4 Marking, ordering information and related matters	14
6.5 Selection of tests, test conditions and severities	14
6.6 Blank detail specification pro-forma for type 0,8 connectors	14
7 Marking	15
7.1 Marking of component	15
7.2 Marking and contents of package	15
Bibliography	16
Figure 1 – Connector with pin centre contact – Grade 1	7
Figure 2 – Connector with socket centre contact – Grade 1	8
Figure 3 – Connector with pin centre contact – Grade 0	9
Figure 4 – Connector with socket centre contact – Grade 0	10
Figure 5 – Optional design of coupling nut	11
Figure 6 – Gauge pin for socket centre contact	11

Table 1 – Dimensions of connector with pin centre contact – Grade 1	7
Table 2 – Dimensions of connector with socket centre contact – Grade 1	8
Table 3 – Dimensions of connector with pin centre contact – Grade 0.....	9
Table 4 – Dimensions of connector with socket centre contact – Grade 0	10
Table 5 – Dimensions of gauge pins for socket centre contact	11
Table 6 – Ratings and characteristics	12