
Radiofrekvenčni konektorji - 70. del: Področna specifikacija za radiofrekvenčne koaksialne konektorje serije HD-BNC - Karakteristična impedanca 75 ohmov (IEC 61169-70:2024)

Radio-frequency connectors - Part 70: Sectional specification for series HD-BNC radio-frequency coaxial connectors - Characteristic Impedance 75 Ω (IEC 61169-70:2024)

Hochfrequenz-Steckverbinder - Teil 70: Rahmenspezifikation für Hochfrequenz-Koaxialsteckverbinder der Serie HD-BNC - Wellenwiderstand 75 Ohm (IEC 61169-70:2024)

Connecteurs pour fréquences radioélectriques - Partie 70 : Spécification intermédiaire pour les connecteurs coaxiaux pour fréquences radioélectriques de la série HD-BNC - Impédance caractéristique de 75 Ω (IEC 61169-70:2024)

<https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024>

Ta slovenski standard je istoveten z: EN IEC 61169-70:2024

ICS:

33.120.30 Radiofrekvenčni konektorji RF connectors
(RF)

SIST EN IEC 61169-70:2024 **en**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 61169-70

April 2024

ICS 31.220

English Version

**Radio-frequency connectors - Part 70: Sectional specification for
series HD-BNC radio-frequency coaxial connectors -
Characteristic Impedance 75 Ω
(IEC 61169-70:2024)**

Connecteurs pour fréquences radioélectriques - Partie 70 :
Spécification intermédiaire pour les connecteurs coaxiaux
pour fréquences radioélectriques de la série HD-BNC -
Impédance caractéristique de 75 Ω
(IEC 61169-70:2024)

Hochfrequenz-Steckverbinder - Teil 70:
Rahmenspezifikation für Hochfrequenz-
Koaxialsteckverbinder der Serie HD-BNC -
Wellenwiderstand 75 Ohm
(IEC 61169-70:2024)

This European Standard was approved by CENELEC on 2024-04-02. 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.

<https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024>



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

EN IEC 61169-70:2024 (E)

European foreword

The text of document 46F/657/FDIS, future edition 1 of IEC 61169-70, 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 61169-70:2024.

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) 2025-01-02
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-04-02

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 61169-70:2024 was approved by CENELEC as a European Standard without any modification.

Document Preview

[SIST EN IEC 61169-70:2024](https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024)

<https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024>

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

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN IEC 61169-70:2024](https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024)

<https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024>



IEC 61169-70

Edition 1.0 2024-02

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio-frequency connectors –
Part 70: Sectional specification for series HD-BNC radio-frequency coaxial
connectors – Characteristic Impedance 75 Ω**

**Connecteurs pour fréquences radioélectriques –
Partie 70 : Spécification intermédiaire pour les connecteurs coaxiaux pour
fréquences radioélectriques de la série HD-BNC – Impédance caractéristique de
75 Ω**

[SIST EN IEC 61169-70:2024](https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024)

<https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024>

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 31.220

ISBN 978-2-8322-8278-6

**Warning! Make sure that you obtained this publication from an authorized distributor.
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 Mating face and gauge information.....	5
4.1 Dimensions – General connectors – Grade 1	5
4.1.1 Connector with pin-centre contact.....	5
4.1.2 Connector with socket-centre contact	7
4.1.3 Coupling nut details	9
4.2 Gauges.....	11
4.2.1 Gauge pin for socket-centre contact	11
4.2.2 Gauge for outer contact of plug	12
5 Quality assessment procedure.....	13
5.1 General.....	13
5.2 Rating and characteristics (see IEC 61169-1:2013, Clause 5).....	14
5.3 Test schedule and inspection requirements.....	16
5.3.1 Acceptance tests	16
5.3.2 Periodic tests.....	16
5.4 Procedures	17
5.4.1 Quality conformance inspection	17
5.4.2 Quality conformance and its maintenance.....	18
6 Instructions for preparation of detail specifications (DS).....	18
6.1 General.....	18
6.2 Identification of the component	18
6.3 Performance	18
6.4 Marking, ordering information and related matters	18
6.5 Selection of tests, test conditions and severities	19
6.6 Blank detail specification pro forma for series HD-BNC connectors	19
Figure 1 – Connector with pin-centre contact.....	6
Figure 2 – Pin-centre contact.....	6
Figure 3 – Connector with socket-centre contact.....	8
Figure 4 – Socket- centre contact	8
Figure 5 – Coupling nut details	10
Figure 6 – Gauge pin for socket-centre contact.....	11
Figure 7 – Gauge for outer contact of plug.....	13
Table 1 – Dimensions of connector with pin-centre contact.....	7
Table 2 – Dimensions of connector with socket-centre contact.....	9
Table 3 – Dimensions of coupling nut	11
Table 4 – Dimensions of gauge pin for socket-centre contact.....	12
Table 5 – Dimensions of outer contact gauge.....	13
Table 6 – Rating and characteristics	14
Table 7 – Acceptance tests.....	16
Table 8 – Periodic tests	16

INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

Part 70: Sectional specification for series HD-BNC radio-frequency coaxial connectors – Characteristic impedance 75 Ω

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.
- 2) The formal decisions or agreements of 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 IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <https://patents.iec.ch>. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 61169-70 has been prepared by subcommittee 46F: RF and microwave passive components, of IEC technical committee 46: Cables, wires, waveguides, RF connectors, RF and microwave passive components and accessories. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
46F/657/FDIS	46F/664/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts of the IEC 61169 series, under the general title: *Radio-frequency connectors*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

iTeh Standards (<https://standards.iteh.ai>) Document Preview

[SIST EN IEC 61169-70:2024](https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024)

<https://standards.iteh.ai/catalog/standards/sist/611f1e31-c2fe-485c-89e9-f140de271d98/sist-en-iec-61169-70-2024>