



BSI Standards Publication

Radio-frequency connectors

Part 68: Sectional specification for series TRK bayonet coupling triaxial connectors

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National foreword

This British Standard is the UK implementation of EN IEC 61169-68:2022. It is identical to IEC 61169-68:2022.

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.

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April 2022

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English Version

Radio-frequency connectors - Part 68: Sectional specification for
series TRK bayonet coupling triaxial connectors
(IEC 61169-68:2022)

Connecteurs pour fréquences radioélectriques - Partie 68:
Spécification intermédiaire relative aux connecteurs
triaxiaux à accouplement à baïonnette de série TRK
(IEC 61169-68:2022)

Hochfrequenz-Steckverbinder - Teil 68:
Rahmenspezifikation für triaxiale Steckverbinder mit
Bajonettkupplung der Serie TRK
(IEC 61169-68:2022)

This European Standard was approved by CENELEC on 2022-03-25. 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.

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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

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European foreword

The text of document 46F/596/FDIS, future edition 1 of IEC 61169-68, 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 61169-68:2022.

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) 2022-12-25
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-03-25

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(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.cenelec.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
IEC 61169-1-5	-	Radio frequency connectors - Part 1-5: Electrical test methods - Rise time degradation	EN IEC 61169-1-5	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Radio-frequency connectors –
Part 68: Sectional specification for series TRK bayonet coupling triaxial
connectors**

**Connecteurs pour fréquences radioélectriques –
Partie 68: Spécification intermédiaire relative aux connecteurs triaxiaux à
accouplement à baïonnette de série TRK**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –

Part 68: Sectional specification for series TRK bayonet coupling triaxial connectors

FOREWORD

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IEC 61169-68 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/596/FDIS	46F/610/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.

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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/standardsdev/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,
- replaced by a revised edition, or
- amended.

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RADIO-FREQUENCY CONNECTORS –

Part 68: Sectional specification for series TRK bayonet coupling triaxial connectors

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 series TRK bayonet coupling triaxial connectors. The series TRK bayonet coupling triaxial connectors having the advantages of quick connection and separation, high reliability, small size, good salt characteristics, four polarizations to prevent error-mate etc., can be connected to symmetrically twisted pair cables or triaxial cables. They have been widely used in 1553B data bus systems or other communication systems for digital signal transmission.

It specifies mating face dimensions for series TRK bayonet coupling triaxial connectors, gauging information and tests selected from IEC 61169-1, applicable to all detail specifications relating to series TRK triaxial connectors.

This document indicates recommended performance characteristics to be considered when writing a detail specification and it covers test schedules and inspection requirements for assessment levels M and H.

NOTE Metric dimension are original dimensions. All undimensioned pictorial configurations are for reference purpose only.

2 Normative references

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.

IEC 61169-1:2013, *Radio frequency connectors – Part 1: Generic specification – General requirements and measuring methods*

IEC 61169-1-5, *Radio frequency connectors – Part 1-5: Electrical test methods – Rise time degradation*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61169-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>