



SLOVENSKI STANDARD
SIST EN IEC 61169-1-6:2022

01-junij-2022

Radiofrekvenčni konektorji - 1-6. del: Električne preskusne metode - Moč RF (IEC 61169-1-6:2022)

Radio frequency connectors - Part 1-6: Electrical test methods- RF power (IEC 61169-1-6:2022)

Hochfrequenz-Steckverbinder - Teil 1-6: Elektrische Prüfverfahren - RF-Leistung (IEC 61169-1-6:2022)

Connecteurs pour fréquences radioélectriques - Partie 1-6: Méthodes d'essai électrique - Puissance RF (IEC 61169-1-6:2022)

Ta slovenski standard je istoveten z: EN IEC 61169-1-6:2022

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ICS:

33.120.30 Radiofrekvenčni konektorji RF connectors
(RF)

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 61169-1-6

April 2022

ICS 33.120.30

English Version

**Radio-frequency connectors - Part 1-6: Electrical test methods -
RF power
(IEC 61169-1-6:2022)**

Connecteurs pour fréquences radioélectriques - Partie 1-6:
Méthodes d'essai électrique - Puissance RF
(IEC 61169-1-6:2022)

Hochfrequenz-Steckverbinder - Teil 1-6: Elektrische
Prüfverfahren - HF-Leistung
(IEC 61169-1-6:2022)

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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

EN IEC 61169-1-6:2022 (E)**European foreword**

The text of document 46F/598/FDIS, future edition 1 of IEC 61169-1-6, 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 61169-1-6:2022.

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-03-25

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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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61169-1	-	Radio frequency connectors - Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	-
IEC 61169-1-4	-	Radio-frequency connectors - Part 1-4: Electrical test methods - Voltage standing wave ratio, return loss and reflection coefficient	EN IEC 61169-1-4	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE



iTeh STANDARD**Radio-frequency connectors –
Part 1-6: Electrical test methods – RF power****(standards.iteh.ai)****Connecteurs pour fréquences radioélectriques –
Partie 1-6: Méthodes d'essai électrique – Puissance RF**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 1-6: Electrical test methods – RF power**

FOREWORD

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IEC 61169-1-6 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/598/FDIS	46F/612/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/standardsdev/publications.

A list of all parts in the IEC 61169 series, published 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 1-6: Electrical test methods – RF power

1 Scope

This part of IEC 61169 provides test methods for RF power rating and power handling of RF connectors at specified frequency, temperature and altitude.

This document is applicable to cabled RF connectors, microstrip RF connectors and RF connector adapters. It is also suitable to test RF channels in multi-channel RF connectors and hybrid connectors.

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

IEC 61169-1-4, *Radio frequency connectors – Part – 1-4: Electrical test methods – Voltage standing wave ratio, return loss and reflection coefficient*

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>

3.1

power rating

input power at which neither peak working voltage nor maximum dielectric temperature for an RF connector is exceeded, if it is terminated

Note 1 to entry: See Annex A for typical dielectric materials for RF connectors and their maximum withstanding temperatures.

3.2

average power

power that is averaged over the defined frequency range and periods at the specified temperature and altitude and that can be handled by RF connectors