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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/20

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EUROPEAN STANDARD

EN IEC 61169-1-4

NORME EUROPÉENNE

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September 2020

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English Version

**Radio-frequency connectors - Part 1-4: Electrical test methods -
Voltage standing wave ratio, return loss and reflection coefficient
(IEC 61169-1-4:2020)**

Connecteurs pour fréquences radioélectriques - Partie 1-4 :
Méthodes d'essai électriques - Rapport d'ondes
stationnaires en tension, affaiblissement de réflexion et
coefficient de réflexion
(IEC 61169-1-4:2020)

Hochfrequenz-Steckverbinder - Teil 1-4: Elektrische
Prüfverfahren - Spannungsstehwellenverhältnis,
Rückflussdämpfung und Reflexionskoeffizient
(IEC 61169-1-4:2020)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 61169-1-4:2020 (E)**European foreword**

The text of document 46F/505/FDIS, future edition 1 of IEC 61169-1-4, 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 61169-1-4:2020.

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<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

Edition 1.0 2020-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Connecteurs pour fréquences radioélectriques –
Partie -4: Méthodes d'essai électriques – Rapport d'ondes stationnaires
en tension, affaiblissement de réflexion et coefficient de réflexion**

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IEC 61169-1-4

Edition 1.0 2020-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

**Connecteurs pour fréquences radioélectriques –
Partie -4: Méthodes d'essai électriques – Rapport d'ondes stationnaires
en tension, affaiblissement de réflexion et coefficient de réflexion**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS –**Part 1-4: Electrical test methods – Voltage standing wave ratio, return loss and reflection coefficient**

FOREWORD

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International Standard IEC 61169-1-4 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.

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

FDIS	Report on voting
46F/505/FDIS	46F/510/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

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 "<http://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.

RADIO-FREQUENCY CONNECTORS –

Part 1-4: Electrical test methods – Voltage standing wave ratio, return loss and reflection coefficient

1 Scope

This part of IEC 61169 provides test methods for the voltage standing wave ratio, return loss and reflection coefficient of RF connectors, including frequency domain method, time domain method, and gating.

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

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