

Irish Standard I.S. EN IEC 61169-1-2:2019

Radio-frequency connectors - Part 1-2: Electrical test methods - Insertion loss

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I.S. EN IEC 61169-1-2:2019

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This document is based on:

Published:

EN IEC 61169-1-2:2019

2019-11-01

This document was published under the authority of the NSAI and comes into effect on:

ICS number:

2019-11-26

NOTE: If blank see CEN/CENELEC cover page

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I.S. EN IEC 61169-1-2:2019 is the adopted Irish version of the European Document EN IEC 61169-1-2:2019, Radio-frequency connectors - Part 1-2: Electrical test methods - Insertion loss

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EUROPEAN STANDARD

EN IEC 61169-1-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2019

ICS 33.120.30

English Version

Radio-frequency connectors - Part 1-2: Electrical test methods - Insertion loss (IEC 61169-1-2:2019)

Connecteurs pour fréquences radioélectriques - Partie 1-2: Méthodes d'essai électrique - Perte d'insertion (IEC 61169-1-2:2019) Hochfrequenz-Steckverbinder - Teil 1-2: Elektrische Prüfverfahren - Einfügungsdämpfung (IEC 61169-1-2:2019)

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EN IEC 61169-1-2:2019 (E)

European foreword

The text of document 46F/466/FDIS, future edition 1 of IEC 61169-1-2, 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 61169-1-2:2019.

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EN IEC 61169-1-2:2019 (E)

Annex ZA

(normative)

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PublicationYearTitleEN/HDYearIEC 61169-1-Radio frequency connectors - Part 1:EN 61169-1-Generic specification - General requirements and measuring methods

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IEC 61169-1-2

Edition 1.0 2019-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Radio-frequency connectors -

Part 1-2: Electrical test methods – Insertion loss

Connecteurs pour fréquences radioélectriques – Partie 1-2: Méthodes d'essai électrique – Perte d'insertion





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IEC 61169-1-2

Edition 1.0 2019-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Radio-frequency connectors –

Part 1-2: Electrical test methods – Insertion loss

Connecteurs pour fréquences radioélectriques – Partie 1-2: Méthodes d'essai électrique – Perte d'insertion

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ICS 33.120.30 ISBN 978-2-8322-7261-9

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS -

Part 1-2: Electrical test methods – Insertion loss

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

FDIS	Report on voting	
46F/466/FDIS	46F/480/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.

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RADIO-FREQUENCY CONNECTORS -

Part 1-2: Electrical test methods - Insertion loss

1 Scope

This part of IEC 61169 provides test methods for the insertion loss of radio-frequency (RF) connectors.

This document is applicable to cable RF connectors, microstrip RF connectors and RF connector adapters. It is also applicable to RF channels in multi-RF channel connectors and hybrid connectors which contain any combination of coaxial contact, optical fibres contact, and current-carrying electrical contact element.

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

3 Terms and definitions

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

3.1

insertion loss

loss of power resulting from the insertion of a connector or similar device into a transmission line, expressed by formula (1), in decibels:

$$IL = -10\lg\left(\frac{P_2}{P_1}\right) \tag{1}$$

where

IL is the insertion loss, in dB;

 P_1 is the input power into the RF connector, transmitted by the signal source;

 P_2 is the output power from the RF connector to the load, transmitted by the signal source.



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