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Multi-channel radio frequency connectors - Part 1: Generic specification - General requirements and test methods

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. 03/20

Obsahuje: EN IEC 63138-1:2019, IEC 63138-1:2019

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EUROPEAN STANDARD

EN IEC 63138-1

NORME EUROPÉENNE

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November 2019

ICS 33.120.30

English Version

**Multi-channel radio frequency connectors - Part 1: Generic specification - General requirements and test methods
(IEC 63138-1:2019)**

Connecteurs radiofréquences multicanaux - Partie 1:
Spécification générique - Exigences générales et méthodes
d'essai
(IEC 63138-1:2019)

Mehrkanalige Hochfrequenz-Steckverbinder - Teil 1:
Fachgrundspezifikation - Allgemeine Anforderungen und
Prüfverfahren
(IEC 63138-1:2019)

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Europäisches Komitee für Elektrotechnische Normung

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

EN IEC 63138-1:2019 (E)**European foreword**

The text of document 46F/467/FDIS, future edition 1 of IEC 63138-1, 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 63138-1:2019.

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) 2020-07-17
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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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 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 60068-2-11	-	Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist	EN 60068-2-11	-
IEC 60068-2-20	-	Environmental testing - Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads	EN 60068-2-20	-
IEC 60068-2-27	-	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	EN 60068-2-27	-
IEC 61169-1	2013	Radio frequency connectors - Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	2013
IEC 61169-1-2	-	Radio-frequency connectors - Part 1-2: Electrical test methods - Insertion loss	-	-
IEC 61169-1-4	— ¹	Radio-frequency connectors - Part 1-4: Electrical test methods- voltage standing wave ratio, return loss and reflection coefficient	EN 61169-1-4	— ²
IEC 61726	-	Cable assemblies, cables, connectors and passive microwave components - Screening attenuation measurement by the reverberation chamber method	EN 61726	-

¹ Under preparation. Stage at time of preparation: IEC CDV 61169-1-4:2019.

² Under preparation. Stage at time of preparation: prEN IEC 61169-1-4:2019.

EN IEC 63138-1:2019 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62037-3	-	Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors	EN 62037-3	-



IEC 63138-1

Edition 1.0 2019-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Multi-channel radio-frequency connectors –
Part 1: Generic specification – General requirements and test methods**

**Connecteurs radiofréquences multicanaux –
Partie 1: Spécification générique – Exigences générales et méthodes d'essai**





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IEC 63138-1

Edition 1.0 2019-09

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NORME INTERNATIONALE

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Part 1: Generic specification – General requirements and test methods**

**Connecteurs radiofréquences multicanaux –
Partie 1: Spécification générique – Exigences générales et méthodes d'essai**

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MULTI-CHANNEL RADIO-FREQUENCY CONNECTORS –**Part 1: Generic specification –
General requirements and test methods**

FOREWORD

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International Standard IEC 63138-1 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/467/FDIS	46F/481/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.

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.

MULTI-CHANNEL RADIO-FREQUENCY CONNECTORS –

Part 1: Generic specification – General requirements and test methods

1 Scope

This part of IEC 63138-1, which is a generic specification, specifies general requirements for multi-channel radio-frequency connectors, including terms and definitions, design and construction, ratings and characteristics, climatic categories, IEC type designation, requirements and test procedures, quality assessment, marking, etc.

It provides the basis for establishing the sectional specifications for various multi-channel radio-frequency connector types.

This document applies to multi-channel radio-frequency connectors (called "connectors", hereinafter) for use in communications, electronics and other equipment.

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 60068-1, *Environmental testing – Part 1: General and guidance*

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IEC 60068-2-11, *Basic environmental testing procedures – Part 2-11: Tests – Test Ka: Salt mist*

IEC 60068-2-20, *Environmental testing – Part 2-20: Tests – Test T: Test methods for solderability and resistance to soldering heat of devices with leads*

IEC 60068-2-27, *Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock*

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

IEC 61169-1-2, *Radio-frequency connectors – Part 1-2: Electrical test methods – Insertion loss*

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

IEC 61726, *Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method*

IEC 62037-3, *Passive RF and microwave devices, intermodulation level measurement – Part 3: Measurement of passive intermodulation in coaxial connectors*

¹ Under preparation. Stage at the time of publication: IEC CDV 61169-1-4:2019.