SLOVENSKI STANDARD
SIST EN IEC 63137-1:2020

01-maj-2020

Standardni radiofrekvenčni konektorji - 1. del: Splošne specifikacije - Splošne zahteve in preskusne metode (IEC 63137-1:2019)

Standard test radio-frequency connectors - Part 1: Generic specification - General requirements and test methods (IEC 63137-1:2019)

Standard-Hochfrequenz-(HF-)Prüfsteckverbinder - Teil 1: Fachgrundspezifikation – Allgemeine Anforderungen und Prüfverfahren (IEC 63137-1:2019)

Connecteurs d’essai normalisés pour fréquences radioélectriques - Partie 1: Spécification générique - Exigences générales et méthodes d’essai (IEC 63137-1:2019)

Ta slovenski standard je istoveten z: **EN IEC 63137-1:2019**

ICS:

33.120.30	Radiofrekvenčni konektorji (RF)	RF connectors

SIST EN IEC 63137-1:2020 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 63137-1

October 2019

ICS 33.120.30

English Version

Standard test radio-frequency connectors - Part 1: Generic specification - General requirements and test methods (IEC 63137-1:2019)

Connecteurs d'essai normalisés pour fréquences radioélectriques - Partie 1: Spécification générique - Exigences générales et méthodes d'essai (IEC 63137-1:2019)

Standard-Hochfrequenz-(HF-)Prüfsteckverbinder - Teil 1: Fachgrundspezifikation - Allgemeine Anforderungen und Prüfverfahren (IEC 63137-1:2019)

This European Standard was approved by CENELEC on 2019-09-20. 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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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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

Ref. No. EN IEC 63137-1:2019 E

European foreword

The text of document 46F/459/FDIS, future edition 1 of IEC 63137-1, 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 63137-1:2019.

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)	2020-06-20
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2022-09-20

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 63137-1:2019 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60457 (series)	NOTE	Harmonized as HD 351.5 S1 (series)
IEC 61196 (series)	NOTE	Harmonized as EN 61196 (series)
IEC 61169-1:2013	NOTE	Harmonized as EN 61169-1:2013 (not modified)

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.

Publication	Year	Title	EN/HD	Year
IEC 60457-1	-	Rigid precision coaxial and their associated precision connectors. Part 1: General requirements and measuring methods	HD 351.1 S1	-
IEC 60617	-	Graphical Symbols for Diagrams	-	-
IEC 61169-1-2	-	Radio-frequency connectors - Part 1-2: Electrical test methods - Insertion loss	-	-
IEC 61169-1-4	-	Radio-frequency connectors - Part 1-4: Electrical test methods- voltage standing wave ratio, return loss and reflection coefficient	-	-
IEC 62153-4-4	-	Metallic communication cable test methods - Part 4-4: Electromagnetic compatibility (EMC) - Shielded screening attenuation, test method for measuring of the screening attenuation as up to and above 3 GHz	-	-

IEC 63137-1

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Standard test radio-frequency connectors –
Part 1: Generic specification – General requirements and test methods

Connecteurs d'essai normalisés pour fréquences radioélectriques –
Partie 1: Spécification générique – Exigences générales et méthodes d'essai

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STANDARD TEST RADIO-FREQUENCY CONNECTORS –

Part 1: Generic specification – General requirements and test methods

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 63137-1 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/459/FDIS	46F/470/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 in the IEC 63137 series, published under the general title *Standard test 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.

The contents of the corrigendum of January 2020 have been included in this copy.

STANDARD TEST RADIO-FREQUENCY CONNECTORS –

Part 1: Generic specification – General requirements and test methods

1 Scope

This part of IEC 63137 defines general requirements for standard test radio frequency (RF) connectors (grade 0), including terms and definitions, ratings and characteristics, general requirements, test methods, quality assessment procedures, and etc.

Standard test radio frequency (RF) connectors (grade 0) are intended to measure grade 1 and grade 2 RF connectors for electrical performances. Typically, a standard test radio frequency (RF) connector (grade 0) is an adapter with one end (normally a precision connector interface) which can be connected with measurement equipment and the other end (normally a standard test connector interface) which can be connected with grade 1 or grade 2 connectors.

This specification applies to grade 0 standard test connectors (called connector, hereinafter).

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 60457-1, *Rigid precision coaxial lines and their associated precision connectors – Part 1: General requirements and measuring methods*

IEC 60617, *Graphical symbols for diagrams*

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

IEC 61169-1-4:__[2], *Radio-frequency connectors – Part 1-4: Electrical test methods – voltage standing wave ratio, return loss and reflection coefficient*

IEC 62153-4-4 *Metallic communication cable test methods – Part 4-4: Electromagnetic compatibility (EMC) – Test method for measuring of the screening attenuation as up to and above 3 GHz, triaxial method*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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1 Under preparation. Stage at the time of publication: IEC/FDIS 61169-1-2:2019.

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