SLOVENSKI STANDARD
SIST EN IEC 63138-3:2022

01-junij-2022

Večkanalni radiofrekvenčni konektorji - 3. del: Področna specifikacija za okrogli konektor serije MQ5 (IEC 63138-3:2022)

Multi-channel radio frequency connectors - Part 3: Sectional specification for MQ5 series circular connectors (IEC 63138-3:2022)

Mehrkanalige Hochfrequenz-Steckverbinder - Teil 3: Rahmenspezifikation für Rundsteckverbinder der Serie MQ5 (IEC 63138-3:2022)

Connecteurs radiofréquences multicanaux - Partie 3: Spécification intermédiaire relatives aux connecteurs circulaires de série MQ5 (IEC 63138-3:2022)

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ICS:

33.120.30	Radiofrekvenčni konektorji (RF)	RF connectors

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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

European foreword

The text of document 46F/602/FDIS, future edition 1 of IEC 63138-3, 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 63138-3:2022.

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) 2023-01-13
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The text of the International Standard IEC 63138-3:2022 was approved by CENELEC as a European Standard without any modification.

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

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Multi-channel radio frequency connectors – Part 3: Sectional specification for MQ5 series circular connectors

Connecteurs radiofréquences multicanaux – Partie 3: Spécification intermédiaire relatives aux connecteurs circulaires de série MQ5

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MULTI-CHANNEL RADIO FREQUENCY CONNECTORS –

Part 3: Sectional specification for MQ5 series circular connectors

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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IEC 63138-3 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/602/FDIS	46F/614/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 63138 series, published under the general title *Multi-channel 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.

MULTI-CHANNEL RADIO FREQUENCY CONNECTORS –

Part 3: Sectional specification for MQ5 series circular connectors

1 Scope

This part of IEC 63138, which is a sectional specification (SS), provides information and rules for the preparation of detail specifications (DS) for MQ5 series circular connectors with five RF channels, as well as a detailed specification of the blank format.

An MQ5 series circular connector with 50 Ω nominal impedance has five RF channels that can be engaged and disengaged at the same time. There are two versions of plug connectors, one is a quick-lock version, and the other is a threaded version. The socket connector provides two coupling mechanisms, a quick-lock and a threaded coupling.

MQ5 series circular connectors can be used in mobile communication systems and in other communication equipment.

This document also specifies the mating face dimensions and gauging information of MQ5 series circular connectors, and tests selected from IEC 63138-1, applicable to all detail specifications relating to MQ5 series circular 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 63138-1:2019, *Multi-channel radio-frequency connectors – Part 1:Generic specification − General requirements and test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 63138-1 apply.

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

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

4 Mating face and gauge information

4.1 Mating face dimensions

4.1.1 MQ5 socket connector

The mating face of MQ5 socket connectors is shown in Figure 1 and its dimensions are shown in Table 1.