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I.S. EN IEC 63138-3:2022

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

**I.S. EN IEC 63138-3:2022**

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## National Foreword

I.S. EN IEC 63138-3:2022 is the adopted Irish version of the European Document EN IEC 63138-3:2022, Multi-channel radio frequency connectors - Part 3: Sectional specification for MQ5 series circular connectors

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**EN IEC 63138-3**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2022

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English Version

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

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

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

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## **EN IEC 63138-3:2022 (E)**

### **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.

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(normative)

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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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**IEC 63138-3**

Edition 1.0 2022-03

# **INTERNATIONAL STANDARD**

## **NORME INTERNATIONALE**

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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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**IEC 63138-3**

Edition 1.0 2022-03

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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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**

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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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://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.

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- 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  $\Omega$  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.elctropedia.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.



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