IEC 63138-2

Edition 1.0 2020-12

INTERNATIONAL STANDARD

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Multi-channel radio-frequency connectors – Part 2: Sectional specification for MQ4 series circular connectors

Connecteurs radiofréquences multicanaux – Partie 2: Spécification intermédiaire pour les connecteurs circulaires de série MQ4



IEC 63138-2:2020-12(en-fr)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ICS 33.120.30

ISBN 978-2-8322-9148-1

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MULTI-CHANNEL RADIO-FREQUENCY CONNECTORS –

Part 2: Sectional specification for MQ4 series circular connectors

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

FDIS	Report on voting
46F/524/FDIS	46F/533/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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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 "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

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MULTI-CHANNEL RADIO-FREQUENCY CONNECTORS –

Part 2: Sectional specification for MQ4 series circular connectors

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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 MQ4 series circular connectors with four RF channels, as well as a detailed specification of the blank format.

An MQ4 series circular connector with 50 Ω nominal impedance has four RF channels which 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.

MQ4 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 MQ4 series circular connectors, and tests selected from IEC 63138-1, applicable to all detail specifications relating to MQ4 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.

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- IEC Electropedia: available at http://www.electropedia.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 MQ4 socket connector

The mating face of MQ4 socket connectors is shown in Figure 1 and its dimensions are shown in Table 1.