

PRE-RELEASE VERSION (FDIS)

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

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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

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NOTE FROM TC/SC OFFICERS:
the Chinese NC has revised the document to incorporate the latest comments as well as the CO editorial review

CONTENTS

FOREWORD	4
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Mating face and gauge information	6
4.1 Mating face dimensions	6
4.1.1 MQ5 socket connector	6
4.1.2 MQ5 plug connector	8
4.1.3 Mating face of RF channel	11
4.2 Gauges	12
4.2.1 Gauge for RF channel	12
4.2.2 Gauge rings for plug outer contact	13
4.2.3 Gauge for MQ5 socket connector	14
4.2.4 Gauge for MQ5 plug connector	15
5 Quality assessment procedure	17
5.1 General	17
5.2 Rating and characteristics	17
5.3 Quality assessment	19
5.3.1 General	19
5.3.2 Inspection procedure	20
5.3.3 Lot-by-lot inspection	21
5.3.4 Periodic inspections	22
6 Instructions for preparation of detail specifications	23
6.1 General	23
6.2 Identification of the component	23
6.3 Performance	23
6.4 Marking, ordering information and related matters	23
6.5 Selection of tests, test conditions and severities	23
6.6 Blank detail specification pro-forma for MQ5 series circular connector	24
7 Marking	28
7.1 Marking of component	28
7.2 Marking and contents of package	28
Figure 1 – MQ5 socket connector	7
Figure 2 – MQ5 quick lock plug connector	9
Figure 3 – MQ5 threaded plug connector	10
Figure 4 – Mating face of RF channel	11
Figure 5 – Gauge for socket contact of RF channel	13
Figure 6 – Gauge for plug outer contact	14
Figure 7 – Gauge for MQ5 socket connector	15
Figure 8 – Gauge for MQ5 plug connector	16
Table 1 – Dimensions of MQ5 socket connector	8
Table 2 – Dimensions of MQ5 quick lock plug connector	9

Table 3 – Dimensions of MQ5 threaded plug connector	10
Table 4 – Dimensions of RF channel.....	12
Table 5 – Dimensions of gauge for socket contact	13
Table 6 – Dimensions of gauge for outer contact	14
Table 7 – Dimensions of gauge for MQ5 socket connector.....	15
Table 8 – Dimensions of gauge for MQ5 plug connector	17
Table 9 – Rating and characteristics	18
Table 10 – Qualification inspection	20
Table 11 – Lot-by-lot inspection	21
Table 12 – Sampling plans for mechanical compatibility and return loss inspection.....	21
Table 13 – Periodic inspection	22

INTERNATIONAL ELECTROTECHNICAL COMMISSION

MULTI-CHANNEL RADIO FREQUENCY CONNECTORS –

Part 3: Sectional specification for MQ5 series circular connectors

FOREWORD

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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/XX/FDIS	46F/XX/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*