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

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



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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	6
4 Mating face and gauge information.....	7
4.1 Mating face dimensions	7
4.1.1 MQ4 socket connector	7
4.1.2 MQ4 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 MQ4 socket connector.....	14
4.2.4 Gauge for MQ4 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	19
5.3.3 Lot-by-lot inspection	20
5.3.4 Periodic inspections.....	21
6 Instructions for preparation of detail specifications	23
6.1 General.....	23
6.2 Identification of the detail specification.....	23
6.3 Identification of the component.....	23
6.4 Performance	23
6.5 Marking, ordering information and related matters	24
6.6 Selection of tests, test conditions and severities	24
6.7 Blank detail specification pro forma for MQ4 series circular connectors	24
7 Marking	29
7.1 Marking of components.....	29
7.2 Marking and contents of package.....	29
Figure 1 – MQ4 socket connector	7
Figure 2 – MQ4 quick-lock plug connector	9
Figure 3 – MQ4 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 MQ4 socket connector	15
Figure 8 – Gauge for MQ4 plug connector	16
Table 1 – Dimensions of MQ4 socket connector.....	8
Table 2 – Dimensions of MQ4 quick-lock plug connector.....	9

Table 3 – Dimensions of MQ4 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 MQ4 socket connector.....	15
Table 8 – Dimensions of gauge for MQ4 plug connector	16
Table 9 – Rating and characteristics	17
Table 10 – Qualification inspection	19
Table 11 – Lot-by-lot inspection	21
Table 12 – Sampling plans for mechanical compatibility and return loss inspection.....	21
Table 13 – Periodic inspection	22

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MULTI-CHANNEL RADIO-FREQUENCY CONNECTORS –**Part 2: Sectional specification for MQ4 series circular connectors**

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IEC 63138-2 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.

This second edition cancels and replaces the first edition published in 2020. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) change the supplementary key and groove position degree from 0,1 to 0,05 in Figure 1, Figure 2, Figure 3, Figure 7 and Figure 8;
- b) change dimension q from min.1,60 to min.1,65 in Table 1;
- c) add an electrical reference plane in Figure 4;

- d) add dimensions in Table 1;
- e) change dimension n from max.1,55 to max.1,50 in Table 2, Table 3 and Table 7;
- f) update some dimensions in Figure 4 and Table 4;
- g) change dimension a from min.7,50 to min.7,52, and max.7,60 to max. 7,58 in Table 7;
- h) update some dimensions in Figure 8 and Table 8;
- i) change mechanical compatibility from 50 N to 60 N in 4.2.3 and 4.2.4.

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

Draft	Report on voting
46F/644/FDIS	46F/651/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 Directive 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/publications.

This document is to be read with IEC 63138-1:2019.

A list of all parts in the IEC 63138 series, published under the general title *Multichannel 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 2: Sectional specification for MQ4 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 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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