

INTERNATIONAL STANDARD

**Multi-channel radio-frequency connectors -
Part 4: Sectional specification for type L32-4 and L32-5 circular connectors**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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connectors**

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IEC 63138-4 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 edition cancels and replaces IEC 61169-59:2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 61169-59:2017:

- a) use of IEC 63138-1:2019 as its generic specification instead of using IEC 61169-1:2013;
- b) all the subclauses and test methods are in line with IEC 63138-1:2019;
- c) dimension "g" in Table 3, Table 4, Table 7 and Table 8 has been changed from "0,00 min. to 0,8 max." to "1,6 min. to 2,1 max."

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/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- withdrawn, or
- revised.

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 type L32-4 and L32-5 circular connectors with four RF channels and five RF channels, as well as a detailed specification of the blank format.

The L32-4 and L32-5 circular connectors with 50 Ω nominal impedance has four RF channels and five RF channels which can be engaged and disengaged at the same time. They are characterized by threaded coupling mechanisms, anti-misinsertion mechanism, and the operating frequency of each channel is up to 4 GHz. These connectors have been widely used in mobile communication system like TD-SCDMA and TD-LTE and can also be used in some similar equipment.

This document also specifies mating face dimensions for general connectors (grade 2), gauging information and tests selected from IEC 63138-1, applicable to all Detail Specifications relating to type L32-4 and L32-5 circular connectors.

NOTE Metric dimension are original dimensions. All undimensioned pictorial configurations are for reference purpose only.

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 -*

Bibliography

IEC 61169-1:2013, *Radio frequency connectors – Part 1: Generic specification – General requirements and measuring methods*
