

# INTERNATIONAL STANDARD



**Radio-frequency connectors –  
Part 59: Sectional specification for type L32-4 and L32-5 threaded multi-pin  
radio-frequency connectors**



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INTERNATIONAL  
ELECTROTECHNICAL  
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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 Dimensions – General connectors – Grade 2 .....	7
4.1.1 Connector with pin contact.....	7
4.1.2 Connector with socket contact .....	9
4.1.3 Mating face of RF channel .....	12
4.2 Gauges.....	13
4.2.1 Gauge for socket centre contact .....	13
4.2.2 Gauge for type L32-5 connector with 5 pin contacts.....	14
4.2.3 Gauge for L32-4 connector with 4 pin contacts .....	15
4.2.4 Gauge for L32-5 connector with 5 socket contacts .....	16
4.2.5 Gauge for L32-4 connector with 4 socket contacts.....	17
5 Quality assessment procedure.....	19
5.1 General.....	19
5.2 Rating and characteristics.....	19
5.3 Test schedule and inspection requirements.....	21
5.3.1 Acceptance tests .....	21
5.3.2 Periodic tests.....	22
5.4 Procedures for the qualification approval.....	24
5.4.1 Quality conformance inspection .....	24
5.4.2 Qualification approval and its maintenance.....	24
5.4.3 Periodic tests.....	24
5.4.4 Procedures for quality conformance.....	24
6 Instructions for preparation of detail specifications .....	25
6.1 General.....	25
6.2 Identification of the component .....	25
6.3 Performance.....	25
6.4 Marking, marking information and related matters .....	25
6.5 Selection of tests, test conditions and severities .....	25
6.6 Blank detail specification pro-forma for Type L32-4 and L32-5 threaded multi-pin radio frequency connectors.....	26
7 Marking .....	31
7.1 Marking of component.....	31
7.2 Marking and contents of package.....	31
Annex A (normative) Isolation test method.....	32
A.1 Preparation of test sample .....	32
A.2 Test procedure.....	32
Figure 1 – L32-5 connector with 5 pin contacts .....	7
Figure 2 – L32-4 connector with 4 pin contacts .....	8
Figure 3 – L32-5 connector with 5 socket contacts.....	9
Figure 4 – L32-4 connector with 4 socket contacts.....	11
Figure 5 – Mating face of RF channel .....	12

Figure 6 – Gauge for socket contact of RF channel.....	13
Figure 7 – Gauge for L32-5 connector with 5 pin contacts.....	14
Figure 8 – Gauge for L32-4 connector with 4 pin contacts.....	15
Figure 9 – Gauge for L32-5 connector with 5 socket contacts .....	16
Figure 10 – Gauge for L32-4 connector with 4 socket contacts .....	18
Table 1 – Dimensions of L32-5 connector with 5 pin contacts .....	8
Table 2 – Dimensions of L32-4 connector with 4 pin contacts.....	9
Table 3 – Dimensions of L32-5 connector with 5 socket contacts .....	10
Table 4 – Dimensions of L32-4 connector with 4 socket contacts .....	11
Table 5 – Dimensions of the mating face of RF channel.....	13
Table 6 – Dimensions of gauge for socket contact .....	14
Table 7 – Dimensions of gauge L32-5 connector with 5 pin contacts.....	15
Table 8 – Dimensions of gauge L32-4 connector with 4 pin contacts.....	16
Table 9 – Dimensions of gauge for L32-5 connector with 5 socket contacts .....	17
Table 10 – Dimensions of gauge for L32-4 connector with 4 socket contacts .....	18
Table 11 – Rating and characteristics .....	20
Table 12 – Acceptance tests .....	22
Table 13 – Periodic tests .....	23

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIO-FREQUENCY CONNECTORS –**

**Part 59: Sectional specification for type L32-4 and L32-5 threaded multi-pin radio-frequency connectors**

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International Standard IEC 61169-59 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.

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

CDV	Report on voting
46F/351/CDV	46F/362/RVC

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.

A list of all parts of the IEC 61169 series, under the general title: *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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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## RADIO-FREQUENCY CONNECTORS –

### Part 59: Sectional specification for type L32-4 and L32-5 threaded multi-pin radio-frequency connectors

#### 1 Scope

This part of IEC 61169, which is a sectional specification (SS), provides information and rules for the preparation of detail specifications (DS) for type L32-4 and L32-5 threaded multi-pin radio frequency connectors with anti mismatching mechanism, 50  $\Omega$  nominal impedance. 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.

It also prescribes mating face dimensions for general connectors-grade 2, including information and tests selected from IEC 61169-1, applicable to all detail specifications relating to type L32-4 and L32-5 multi-pin connectors.

This sectional specification provides information and rules for the preparation of detail specifications for type L32-4 and L32-5 multi-pin connectors together with the pro forma blank detail specification.

This specification indicates the recommended performance characteristics to be considered when writing a detail specification and it covers test schedules and inspection requirements for assessment levels M and H.

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

IEC 61726, *Cable assemblies, cables, connectors and passive microwave components – Screening attenuation measurement by the reverberation chamber method*

IEC 62037 (all parts), *Passive RF and microwave devices, intermodulation level measurement*

#### 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses: