

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Radio-frequency connectors –  
Part 1-9: Mechanical test methods – Safety wire hole pull-out**

**Connecteurs pour fréquences radioélectriques –  
Partie 1-9: Méthodes d'essais mécaniques – Extraction par le trou du fil de  
sécurité**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## RADIO-FREQUENCY CONNECTORS –

## Part 1-9: Mechanical test methods – Safety wire hole pull-out

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

Draft	Report on voting
46F/701/FDIS	46F/709/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 61169 series, published under the general title *Radio-frequency connectors*, can be found on the IEC website.

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## RADIO-FREQUENCY CONNECTORS –

### Part 1-9: Mechanical test methods – Safety wire hole pull-out

#### 1 Scope

This part of IEC 61169 specifies test methods for the safety wire hole pull-out of RF connectors.

This document is applicable to the connectors with safety wire holes.

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

#### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61169-1 apply.

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

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

#### 4 Test equipment

The pulling testing machine or pulling testing device shall meet the requirements of this test.

#### 5 Test conditions

Test shall be conducted under room ambient conditions or as specified in the relevant specification.

#### 6 Test procedure

The safety wire hole pull-out is shown in Figure 1 and the test procedure is as follows:

- a) Fix the test sample (DUT) to the fixture of the pulling testing machine.
- b) Select a safety wire hole, loop a single strand of safety wire (see Annex A) through the safety wire hole and secure it to itself, and then fix it on the pulling testing machine.
- c) Apply a force of 67 N to the safety wire for 30 s with the pulling force parallel to the connector axis.