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Standards

Irish Standard  
I.S. EN 61169-51:2015

Radio-frequency connectors - Part 51:  
Sectional specification for RF coaxial  
connectors with inner diameter of outer  
conductors 13,5 mm with bayonet lock -  
Characteristic impedance 50  $\Omega$  (type QLI)

**I.S. EN 61169-51:2015**

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EUROPEAN STANDARD

**EN 61169-51**

NORME EUROPÉENNE

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English Version

**Radio-frequency connectors - Part 51: Sectional specification for  
RF coaxial connectors with inner diameter of outer conductors  
13,5 mm with bayonet lock - Characteristic impedance 50 Ω  
(type QLI)  
(IEC 61169-51:2015)**

Connecteurs pour fréquences radioélectriques - Partie 51:  
Spécification intermédiaire relative aux connecteurs  
coaxiaux pour fréquences radioélectriques avec diamètre  
intérieur des conducteurs extérieurs de 13,5 mm à  
verrouillage à baïonnette - Impédance caractéristique 50 Ω  
(type QLI)  
(IEC 61169-51:2015)

Hochfrequenz-Steckverbinder - Teil 51:  
Rahmenspezifikation für koaxiale HF Steckverbinder mit  
13,5 mm Innendurchmesser des Außenleiters und  
Bajonettverschluss - Wellenwiderstand 50 Ohm (Typ QLI)  
(IEC 61169-51:2015)

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## **Foreword**

The text of document 46F/295/FDIS, future edition 1 of IEC 61169-51, prepared by SC 46F "R.F. and microwave passive components", of IEC/TC 46 "Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61169-51:2015.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-12-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-03-12

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## Annex ZA (normative)

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NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60529	-	Degrees of protection provided by enclosures (IP Code)	-	-
IEC 61169-1	2013	Radio-frequency connectors -- Part 1: Generic specification - General requirements and measuring methods	EN 61169-1	2013
IEC 62037	series	Passive RF and microwave devices, intermodulation level measurement	EN 62037	series
ISO 21207	-	Corrosion tests in artificial atmospheres - Accelerated corrosion tests involving alternate exposure to corrosion-promoting gases, neutral salt-spray and drying	-	-

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**IEC 61169-51**

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Radio-frequency connectors –**

**Part 51: Sectional specification for RF coaxial connectors with inner diameter of outer conductors 13,5 mm with bayonet lock – Characteristic impedance 50  $\Omega$  (type QLI)**

**Connecteurs pour fréquences radioélectriques –**

**Partie 51: Spécification intermédiaire relative aux connecteurs coaxiaux pour fréquences radioélectriques avec diamètre intérieur des conducteurs extérieurs de 13,5 mm à verrouillage à baïonnette – Impédance caractéristique 50  $\Omega$  (type QLI)**



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**IEC 61169-51**

Edition 1.0 2015-02

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**



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## **Radio-frequency connectors –**

**Part 51: Sectional specification for RF coaxial connectors with inner diameter of outer conductors 13,5 mm with bayonet lock – Characteristic impedance 50  $\Omega$  (type QLI)**

## **Connecteurs pour fréquences radioélectriques –**

**Partie 51: Spécification intermédiaire relative aux connecteurs coaxiaux pour fréquences radioélectriques avec diamètre intérieur des conducteurs extérieurs de 13,5 mm à verrouillage à baïonnette – Impédance caractéristique 50  $\Omega$  (type QLI)**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIO-FREQUENCY CONNECTORS –****Part 51: Sectional specification for  
RF coaxial connectors with inner diameter  
of outer conductors 13,5 mm with bayonet lock –  
Characteristic impedance 50  $\Omega$  (type QLI)**

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International Standard IEC 61169-51 has been prepared by subcommittee 46F: R.F. and microwave passive components, of IEC technical committee 46: Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories.

The text of this standard is based on the following documents:

FDIS	Report on voting
46F/295/FDIS	46F/310/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication 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.

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## RADIO-FREQUENCY CONNECTORS –

### Part 51: Sectional specification for RF coaxial connectors with inner diameter of outer conductors 13,5 mm with bayonet lock – Characteristic impedance 50 $\Omega$ (type QLI)

#### 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 QLI R.F. coaxial connectors with quick lock.

The connectors are normally used with 50  $\Omega$  corrugated cable and flexible cables for middle power applications in an operating range up to 6 GHz.

It describes the interface dimensions for general purpose connectors with gauging information and the mandatory tests selected from IEC 61169-1 applicable to all detail specifications relative to type QLI connectors.

This specification indicates the recommended performance characteristics to be considered when writing a DS and covers all tests schedules and inspection requirements.

NOTE Metric dimension are original dimensions.

All un-dimensioned pictorial configurations are for reference purpose only.

#### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

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

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

ISO 21207, *Corrosion tests in artificial atmospheres – Accelerated corrosion tests involving alternate exposure to corrosion-promoting gases, neutral salt-spray and drying*

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