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STN	**Vysokofrekvenčné konektory. Časť 51: Rámcová špecifikácia vysokofrekvenčných koaxiálnych konektorov s vnútorným priemerom vonkajších vodičov 13,5 mm s bajonetovým spojením. Charakteristická impedancia 50 ohmov (typ QLI).**	**STN EN 61169-51** 35 3811

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 Ohm (type QLI)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/15

Obsahuje: EN 61169-51:2015, IEC 61169-51:2015

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61169-51

May 2015

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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 O (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 O (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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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

Ref. No. EN 61169-51:2015 E

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.

The following dates are fixed:

- 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

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61169-51:2015 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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.

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

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
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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FOREWORD

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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.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

The international Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning the design of the connector given in 3.1.

IEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured the IEC that he/she is willing to negotiate licence under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holders of this patent right is registered with IEC. More detailed information may be obtained from:

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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 Ω (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 Ω 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*