



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 11313.42-2021

**Radio-frequency connectors - Part 42: Sectional specification
for CQN series quick lock RF connectors**

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Table of Contents

foreword

Introduction

1 Scope

2 Normative references

3 Mating interface and standard gauge

foreword

GB/T 11313 "Radio Frequency Connector" consists of the following parts:

--- Part 1: General requirements and test methods of the general specification;

--- Part 2: Sub-specification for Type 9:52 RF coaxial connectors;

--- Part 4: Radio frequency coaxial connection with outer conductor inner diameter of 16mm (0:63in), characteristic impedance of 50ohm, and screw connection device (type 7-16);

--- Part 8: RF coaxial connection with outer conductor inner diameter of 6:5mm (0:256in), characteristic impedance of 50ohm (75ohm) and bayonet connection

Connector (BNC type) sub-specification;

--- Part 9: SMC series radio frequency coaxial connector sub-specification;

--- Part 10: Sub-specification for SMB series RF coaxial connectors;

--- Part 11: RF coaxial connector with outer conductor inner diameter of 9:5mm (0:374in), characteristic impedance of 50ohm, and screw connection

(4:1/9:5 type) sub-specification;

--- Part 13: Sub-specification for type 1:6/5:6 and 1:8/5:6 RF coaxial connectors;

--- Part 15: RF coaxial connector with outer conductor inner diameter of 4:13mm (0:163in), characteristic impedance of 50ohm, and screw connection

(SMA type);

--- Part 16: Radio frequency coaxial connection with outer conductor inner diameter of 7mm (0:276in), characteristic impedance of 50ohm (75ohm) and screw connection

Connector (N type) sub-specification;

- Part 18: Sub-specification for SSMA series RF coaxial connectors;
- Part 19: SSMB type radio frequency coaxial connector sub-specification;
- Part 24: Sub-specification for threaded RF coaxial connectors (type F) for 75ohm cable distribution systems;
- Part 29: 50ohm and 75ohm with a characteristic impedance of 50ohm, with threaded, push-pull, quick-lock or slide rail racks or panels with small Type RF coaxial connectors (Type 1:0/2:3) sub-specification;
- Part 33: Sub-specification for BMA series radio frequency connectors;
- Part 35: 2:92 Series RF Connector Sub-Specification;
- Part 36: Snap-connect miniature RF coaxial connectors (MCX type) with a characteristic impedance of 50ohm;
- Part 37: Sub-specification for STWX8 series RF coaxial connectors;
- Part 38: Sub-specification for modular slide-in RF connectors (type TMA) for 50ohm backplanes and panels;
- Part 39: Sub-specification for CQM series quick-lock RF connectors;
- Part 40: 2:4 Series RF Connector Sub-Specification;
- Part 41: Sub-specification for CQA series quick-lock RF connectors;
- Part 42: Sub-specification for CQN series quick-lock RF connectors;
- Part 43: RBMA series blind-mate RF coaxial connectors sub-specification;
- Part 101: MMCX series radio frequency coaxial connector sub-specification;
- Part:201: Electrical test methods for reflection coefficient and voltage standing wave ratio;
- Part 202: Electrical test methods for insertion loss:

This part is Part 42 of GB/T 11313:

This section is drafted in accordance with the rules given in GB/T 1:1-2009:

This section uses the redrafting method to modify the use of IEC 61169-42:2013 "RF Connector Part 42: CQN Series Quick Lock

Tight RF Coaxial Connectors Sub-Specification:

The technical differences between this part and IEC 61169-42:2013 and their reasons are as follows:

- Adjust the "original dimensions are metric dimensions, all unmarked graphic structures

are for reference only" in 3:1:1 to the note in Chapter 1;

--- Modified the label in Figure 1, and deleted the detail I in Figure 1;

---Modified the maximum value of b and c in Table 1, deleted the column of remarks in the table and the paragraph in the table, and added footnotes to the code a, e, k

Be explained;

--- Modified the deviation value of the angle in Figure 2, added the provisions of the angle of $20^{\circ} \pm 2^{\circ}$, and modified the symbols of some dimensions in Figure 2;

---Modified the minimum value of e in Table 2, modified some codes in the table according to the change of dimension symbols in Figure 2, and deleted Remark 1 in the table

Columns and paragraphs in the table, footnotes have been added to explain the codes a, k, p;

--- Added standard gauge B for insertion force test in Table 3, and changed the original standard gauge B to standard gauge C;

--- Modified the test procedure in 3:2:2 of the international standard and merged it into 3:2:1;

--- Added the standard gauge for pin connector outer contacts as 3:2:2, and at the same time, added Figure 4 and Table 4, after which the chart number is extended;

--- Modified the diameter size in Figure 5, and deleted the detail I;

--- Modified the maximum value of code b and c in Table 5, deleted the note in the table, and added a footnote to explain a and e;

--- Modified the deviation value of the angle in Figure 6, added the provisions of the angle of $20^{\circ} \pm 2^{\circ}$, and modified the symbols of some dimensions in Figure 6;

---Modified the minimum value of the code e in Table 6, modified some codes in the table according to the change of the size symbol in Figure 6, and deleted the code in the table:

Note, added footnotes to explain a, k, p;

--- Added the preferred climatic categories in Table 7, after which the table numbers are extended;

--- Modified the patch cables in the withstand voltage and the withstand voltage after the environmental test in Table 8;

--- Added the identification of detailed specifications in 5:2, and the subsequent chapter numbers are extended;

--- Added the provisions of (5) in 5:3 on the serial code;

--- Added serial numbers (2) and (3) in 5:7 Blank Detail Specification Format:

The following editorial changes have been made to this section:

--- In order to coordinate with existing standards, the standard name was changed to "RF Connectors Part 42: CQN Series Quick Lock RF Connectors"

Connector Specifications";

--- In accordance with the requirements of GB/T 1:1-2009, the preparation of the chapter "Scope" is standardized:

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China:

This part is under the jurisdiction of the National Standardization Technical Committee of High Frequency Cables and Connectors for Electronic Equipment (SAC/TC190):

This section is drafted by: Shaanxi Huada Technology Co., Ltd., China Electronics Standardization Institute:

Introduction

The issuing body of this document draws attention to the fact that the declaration of compliance with this document may involve the locking of products in 3:1:1, 3:1:2, 3:2:1, 3:2:2

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RF Connector