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

GB/T 11313.38-2018

**Radio-frequency connectors -- Part 38: Sectional specification
for 50 ohm model, slide-in radio frequency coaxial connectors
(type TMA) for rack and panel applications**

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Foreword

GB/T 11313 "RF Connector" has or plans to release the following parts.

--- Part 1. General requirements and test methods;

--- Part 2. Section 9.52 RF coaxial connector sub-specification;

--- Part 3. Double-pin connector for double-balanced antenna feeders.

--- Part 4. outer conductor inner diameter of 16mm (0.63in), characteristic impedance of 50ohm, threaded RF coaxial connector (7-16

type);

--- Part 5. Partial specification for RF coaxial connectors for mating with 60096 IEC 50-17 and larger cables;

--- Part 6. Partial specification for RF coaxial connectors for mating with 60096 IEC 75-17 and larger cables;

--- Part 7. RF coaxial connector with outer conductor inner diameter of 9.5mm (0.374in), characteristic impedance of 50ohm, bayonet connection

(Type C) sub-specification;

--- Part 8. RF coaxial connection with outer conductor inner diameter of 6.5mm (0.256in), characteristic impedance of 50ohm (75ohm), bayonet connection

Connector (BNC type) sub-specification;

---Part 9. SMC series RF coaxial connector sub-specification;

--- Part 10. SMB series RF coaxial connector sub-specification;

--- Part 11. RF coaxial connector with outer conductor inner diameter 9.5mm (0.374in), characteristic impedance 50ohm, threaded connection

(4.1/9.5 type) sub-specification;

--- Part 12. Non-matching threaded connection RF coaxial connector (UHF type) sub-specification;

--- Part 13. Sectional specification for 1.6/5.6 and 1.8/5.6 RF coaxial connectors;

--- Part 14. External conductor inner diameter 12mm (0.472in), characteristic impedance 75ohm, threaded RF coaxial connector

(3.5/12 type) sub-specification;

--- Part 15. RF coaxial connector with outer conductor inner diameter of 4.13mm (0.163in), characteristic impedance of 50ohm, threaded connection

(SMA type);

--- Part 16. External conductor with inner diameter of 7mm (0.276in), characteristic impedance of 50ohm (75ohm), threaded RF coaxial connection

Connector (N type) sub-specification;

--- Part 17. RF coaxial connectors with outer conductor inner diameter 6.5mm (0.256in), characteristic impedance 50ohm, threaded connection

(TNC type) sub-specification;

--- Part 18. SSMA series RF coaxial connector sub-specification;

--- Part 19. SSMB series RF coaxial connector sub-specification;

--- Part 20. RF coaxial connector with outer conductor inner diameter of 2.08mm (0.082in), characteristic impedance of 50ohm, threaded connection

(SSMC type) sub-specification;

--- Part 21. The outer conductor has an inner diameter of 9.5 mm (0.374 in) and a characteristic impedance of 50 ohm. It has two different threaded connections.

RF connector (SC-A and SC-B type) sub-specification;

- Part 22. Double-core RF connectors (BNO type) with double-conductor shielded symmetrical cables for bayonet connection;
- Part 23. Connect 3.5mm hard precision coaxial cable, outer conductor inner diameter of 3.5mm (0.1378in) RF coaxial connector specification;
- Part 24. 75ohm cable distribution system with threaded RF coaxial connector (F type) sub-specification;
- Part 25. Double-core threaded type with inner conductor shielded symmetrical cable and outer conductor inner diameter of 13.56mm (0.534in) (3/4-20 UNEF) connection connector (TWHN type) sub-specification;
- Part 26. TNCA series RF coaxial connector sub-specification;
- Part 27. 75ohm cable distribution system with threaded connection RF coaxial connector (E type) sub-specification;
- Part 28. outer conductor inner diameter is 5.60mm (0.220in), characteristic impedance is 75ohm, card lock connection RF coaxial connector specification;
- Part 29. 50ohm and 75ohm with a characteristic impedance of 50ohm, with threaded, push-pull, quick-lock or slide-type rack or panel Type RF coaxial connector (1.0/2.3 type) sub-specification;
- Part 31. RF coaxial connector with outer conductor inner diameter 1.0mm (0.039in), characteristic impedance 50ohm, threaded connection (type 1.0) sub-specification;
- Part 32. RF coaxial connector with outer conductor inner diameter of 1.85mm (0.072in), characteristic impedance of 50ohm, threaded connection (1.85 type) sub-specification;
- Part 33. BMA series RF connector sub-specification;
- Part 35. 2.92 series RF connector sub-specification;
- Part 36. Snap-on connection micro-miniature RF coaxial connectors with characteristic impedance of 50 ohm (MCX type);
- Part 37. STWX8 series RF coaxial connector sub-specification;
- Part 38. Module slide-in RF connectors (TMA type) for 50 ohm backplanes and panels;
- Part 39. CQM series fast locking RF connector sub-specification;

- Part 40. 2.4 series RF connector sub-specification;
- Part 41. CQA series fast locking RF connector sub-specification;
- Part 42. CQN series fast locking RF connector sub-specification;
- Part 43. RBMA series blind matching RF coaxial connector sub-specification;
- Part 44. SMP series push-in RF coaxial connector sub-specification;
- Part 45. SQMA series fast locking RF coaxial connector sub-specification;
- Part 47. Fquick series 75ohm cable distribution system with plug-in RF coaxial connector sub-specification;
- Part 48. BMP series blind matching RF coaxial connector sub-specification;
- Part 49. SMAA series RF coaxial connector sub-specification;
- Part 101. MMCX series RF coaxial connector sub-specification.

This part is the 38th part of GB/T 11313.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to IEC 61169-38.2008 "RF connectors - Part 38. Sectional specification RF coaxial connection

Slide mode (in rack and panel applications) 50ohm characteristic impedance (TMA type) 50ohm application.

This section has made the following editorial changes.

- To be consistent with the existing standard series, change the standard name to "RF Connector Part 38. 50ohm Backplane and Panel Modules

Slide-in RF coaxial connector (TMA type) sub-specification;

- Add a "a" to the frequency range in Table 7, and delete the "upper limit frequency of the cable";

- Adjusted the sequence of test clauses in Table 7, and unified "1cm3/h" in Table 7 environmental performance to "100kPa.cm3/h";

- For the content of Chapter 5 and other standards of the same series have been standardized.

1 Scope

This part of GB/T 11313 gives the contents and rules for the detailed specification of the TMA type RF connector, as well as the detailed specification of the empty