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

GB/T 5964-2008

Replacing GB/T 5964-1986

Coaxial cable connectors used in nuclear instrumentation

核仪器用同轴电缆连接器

(English Translation)

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Foreword

This corresponds to the standard IEC 60498. 1975 "Nuclear instrumentation with high pressure coaxial connectors" and IEC 60313:2002 "Nuclear Laboratory instruments for Coaxial cable connector ", and IEC 60498. 1975 and IEC 60313:2002 non-equivalent.

This standard replaces GB/T 5964-1986 "nuclear instrumentation with high pressure coaxial connectors." this standard and GB/T 5964-1986 The main differences are as follows.

- Standard name changed to "coax connectors used in nuclear instrumentation";
- Increase IEC 60729 and other normative references;
- Increase the "Terms and Definitions", such as "peak voltage", "safe high-voltage connector (SHV)" and other terms;
- Increase in Appendix A "signal transmitted by a coaxial cable connector", whose contents are IEC 60313 recommended three coaxial signal transmission Cable connectors.

Appendix A of this standard is a normative appendix.

The standard proposed by China National Nuclear Corporation.

This standard by the National Standardization Technical Committee on nuclear instrumentation.

This standard was drafted. nuclear (Beijing) Nuclear Instrument Factory, Institute of Nuclear Industry Standardization.

1 Scope

This standard specifies the high-voltage coaxial connector mating portion of the structure and size of the two types and the main electrical properties.

This standard applies to high-voltage coaxial connectors and nuclear electronic instrument

connected.

According to the structure and size and technical requirements of this standard manufactured products with similar foreign products in the mechanical and electrical properties can be achieved complete exchange. About signal transmission coaxial connectors, see Appendix A recommended three signal connector.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 14865 SMB RF coaxial connectors (GB/T 14865-1993, idt IEC 60169-10. 1983) IEC 60169-8. 1978 RF connectors - Part 8. a bayonet locking, inside the insulator diameter of 6.5 mm (0.256 Inch) R. F. The coaxial cable connector characteristic impedance of 50 ohms (BNC type) (including Amendment 1.1996 and Amendment 2.1997) IEC 60729 CAMAC chassis multiple controllers

3 Terms and Definitions

The following terms and definitions apply to this standard.

Relative to baseline (OV) positive or negative voltage to the maximum value.

5kV voltage reaches the high-voltage connector.

Coaxial cable connection screw locking buckle ultra-miniature devices, also known as SMA connectors.

Connect coaxial cable ultra-miniature push the locking device, also known as SMB connectors.

4 Types and structure size

4.1

I-type high voltage coaxial connectors 4.1.1 plug structure and size, as shown in Table 1 and 1.

4.1.2

socket structure and dimensions, as shown in Table 2 and 2.

Note: I type high voltage coaxial connector is secure high-voltage connector, the peak voltage up to 5kV.

4.2

II type high voltage coaxial connectors 4.2.1 plug structure and dimensions shown in Figure 3 and Table 3.

4.2.2

socket structure and dimensions, as shown in Table 4 and 4.