

ICS 29.060.01
CCS K 12



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

GB/T 6109.6-2008

Replacing GB/T 6109.6-1988

**Enamelled round winding wire -- Part 6: Polymide enamelled
round copper wire, class 220
(English Translation)**

Issued on: April 23, 2008

Implemented on: December 1, 2008

Issued by: Standardization Administration of China

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Foreword

GB/T 6109 "enamelled round winding wires" is divided into 22 parts.

- Part 1. General requirements;
- Part 2. 155 polyester enamelled round copper wire;
- Part 3. 120 acetal enamelled round copper wire;

- Part 4. 130 solderable polyurethane enamelled round copper wire;
- Part 5. 180 polyester enamelled round copper wire;
- Part 6. 220 Polyimide enamelled round copper wire;
- Part --- Article 7. 130L grade polyester enamelled round copper wire;
- Part 9. 130 polyamide composite solderable polyurethane enamelled round copper wire;
- Part 10. 155 solderable polyurethane enamelled round copper wire;
- Part 11. 155 polyamide composite solderable polyurethane enamelled round copper wire;
- Part 12. 180 polyester or polyamide, polyester enamelled round copper wire;
- Part 13. 180 solderable polyester-imide enamelled round copper wire;
- Part 14. Polyamide-imide 200 enamelled round copper wire;
- Part 15. 130 self-adhesive straight welding polyurethane enamelled round copper wire;
- Part 16. 155 self-adhesive straight welding polyurethane enamelled round copper wire;
- Part 17. 180 self-adhesive Solderable polyesterimide enamelled round copper wire;
- Part 18. 180 self-adhesive polyester enamelled round copper wire;
- Part 19.200 self-adhesive polyester or polyester-polyamide-imide enamelled round copper wire;
- Part 20.200 polyester or polyester-polyamide imide enamelled round copper wire;
- Part 21.200 Polyester - amide - imide enamelled round copper wire;
- Part 22. 240 aromatic polyimide enamelled round copper wire;
- Part 23. 180 straight welding polyurethane enamelled round copper wire.

This is Part 6 GB/T 6109's. This section identical with IEC 60317-7:1997 "Standard winding wires products

7.220 Polyimide enamelled round copper wire "Version 3.2 (in English).

For ease of use, this section made the following editorial changes.

- Deleted international standards foreword;
- With a decimal point instead of a comma as the decimal point, "";
- According to IEC 60317-0-1:2005 increases the pinhole pilot projects.

Since the implementation of this section instead of GB/T 6109.6-1988.

This section compared with the GB/T 6109.6-1988, the main changes are as follows.

- Conductor nominal diameter range increased from 0.018mm ~ 2.500mm were adjusted to 0.020mm ~ 2.000mm (Level 1) and 0.020mm ~ 5.000mm (Level 2);
- Thermal shock test from the original rod with a predetermined diameter by conductor nominal diameter range binning to press each conductor nominal diameter Project;
- Percentage resistance test according to the new refrigerant assessment method requires extracts should not exceed 0.5%, the minimum breakdown voltage of a predetermined value 75%;
- Increasing the dielectric loss factor performance at 1000Hz frequency tgdelta not exceed 60×10^{-4} ;

GB/T 6109.6-2008/IEC 60317-7:1997

- Increasing the pinhole pilot projects.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee Wire and Cable (SAC/TC213) centralized.

This part of the unit responsible for drafting. Shanghai Electric Cable Research Institute.

Participated in the drafting of this section. Chongming special Electromagnetic Wire Factory, Jiangsu Chase Electrical Co., Ltd. Yusheng Special Wire Co., Ltd., Wuxi Chau Wire Factory, Zhejiang exposed laugh Group Co., Ltd. Jufeng composite wires.

1 Scope

GB/T 6109 This section provides a single paint polyimide resin-based 220 enamelled round copper wire requirements.

220 represents the thermal level, which requires a minimum temperature index of 220, a heat shock temperature of at least 240 °C.

Corresponding to the temperature index temperature in Celsius is not recommended wire temperature, because it depends on the type of equipment used include Many factors within.

Conductor nominal diameter range specified in this standard are.

- Level 1. 0.020mm and 2.000mm above and below;
- Level 2. 0.020mm and 5.000mm above and below.

Nominal press GB/T 6109.1-2008 prescribed in Chapter 4, the diameter of the conductor.

2 Normative references

The following documents contain provisions which, through reference to GB/T 6109 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

Part 1 GB/T 6109.1-2008 enamelled round winding wire. General requirements (IEC 60317-0-1:2005, IDT)

3.1 Definitions, test methods - General

Definitions, test methods, see General GB/T 6109.1-2008 Chapter 3.

If GB/T 6109.1-2008 in this section are contradictory to this section shall prevail.

3.2 Appearance

See GB/T 6109.1-2008 in 3.3.

4 Dimensions

See GB/T 6109.1-2008 in Chapter 4.

5 Resistance

See GB/T 6109.1-2008 in Chapter 5.

6 Elongation

See GB/T 6109.1-2008 in Chapter 6.

7 Resiliency

See GB/T 6109.1-2008 in Chapter 7.

GB/T 6109.6-2008/IEC 60317-7:1997