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

GB/T 9333-2009

Replacing GB/T 9333.1-1988

**Electrical installation in ships -- Shipboard telecommunication
cables and radio-frequency cables -- General instrumentation,
control and communication cables**

(English Translation)

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Appendix A (informative) Product Name and Code

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Foreword

This revised standard adopts IEC 60092-374. 1977 "Electrical equipment of ships and marine communications cable RF cable non-critical communication Telephone cable "(in English) and IEC 60092-375. 1977" Electrical equipment of ships and marine communications cable RF cable general instrumentation, control System and the communication cable "(in English).

The standard IEC 60092-374. 1977 and IEC 60092-375. 1977 made the following changes.

- Remove the IEC 60092-374. 1977 and IEC 60092-375. 1977 Foreword;
- Increase the national standard foreword;
- The "this publication" to "this standard";
- Remove the IEC 60092-374. 1977 and IEC 60092-375. 1977 Foreword;

- Use the decimal symbol instead of decimal symbol " , . " , " ;
- Referenced standards, rather than the international standard of equivalent international standards;
- Some of the statements apply to international standards to apply to our standard formulation;
- Errata the IEC 60092-374. 1977 specified in the insulation resistance of not less than 45Mohm · km, instead 8Mohm · km.

This standard replaces GB/T 9333.1-1988 "shipboard symmetrical communication cables - General." this standard and GB/T 9333.1-1988 have compared the following changes.

- Change the standard name, and IEC 60092-375. 1977 is consistent;
- Increasing the preface, in line with GB/T 1.1-2000 of the relevant provisions;
- Change the scope of application, covering IEC 60092-374. 1977 and IEC 60092-375. Scope 1977 (1988 edition Excerpts of chapter 1); Chapter 1;
- Change some reference standards, the use of a standard equivalent to international standards (1988 edition Chapter 2; Chapter 2 of this edition);
- Change GB/T 9333.1-1988 Chapter 3. definitions, terms and definitions instead. In line with GB/T 1.1-2000 regulation Set (1988 edition, Chapter 3; edition Chapter 3);
- Remove the GB/T 9333.1-1988 Chapter 4. Product name and code, this chapter moved informative Appendix A Excerpts Chapter 4, to "Overview" (1988 edition, Chapter 4; edition Chapter 4);
- Revised GB/T 9333.1-1988 Chapter 5. conductor, this chapter in accordance with IEC 60092-374. 1977 and IEC 60092-375. 1977 provisions were expressed (1988 edition Chapter 5; Chapter 5 of this edition);
- Revised GB/T 9333.1-1988 Chapter 6. insulation, this chapter in accordance with IEC 60092-374. 1977 and IEC 60092-375. 1977 provisions were expressed (1988 edition, Chapter 6; Chapter 6 of this edition);
- Revised GB/T 9333.1-1988 Chapter 7. cable core element to a cable, this chapter in accordance with IEC 60092-374.
1977 and IEC 60092-375. 1977 provisions were expressed (1988 edition, Chapter 7; Chapter 7 of this edition);
- Revised GB/T 9333.1-1988 Chapter 8. sheath, to a cable, this chapter in accordance with IEC 60092-374. 1977 and IEC 60092-375. 1977 provisions were expressed, see Chapter 10, covering sheath (1988 edition, Chapter 8; Chapter 8 of this edition);
- Revised GB/T 9333.1-1988 Chapter 9. Finished cable shield to this chapter in

accordance with IEC 60092-374. 1977 and IEC 60092-375. 1977 provisions were expressed, finished cable see Chapter 12 (1988 edition, Chapter 9; Chapter 9 of this edition);

--- Remove the GB/T 9333.1-1988 Chapter 10. Delivery length instead jacket, this chapter in accordance with IEC 60092-374. 1977 and IEC 60092-375. 1977 provisions were expressed (1988 edition Chapter 10; Chapter 10 of this edition);

--- Remove the GB/T 9333.1-1988 in Chapter 11. Testing and inspection, to identify the cable, this chapter in accordance with IEC 60092-374:1977 and IEC 60092-375. 1977 provisions were expressed (1988 edition Chapter 11; Chapter 11 of this edition);

--- Remove the GB/T 9333.1-1988 in Chapter 12. packaging, to the finished cable, this chapter in accordance with IEC 60092-374. 1977 and IEC 60092-375. 1977 provisions were expressed (1988 edition Chapter 12; Chapter 12 of this edition);

--- Modify the insulation material to comply with IEC 60092-351:2004 specified mixture;

--- Modify the jacket material to comply with IEC 60092-359:1999 provisions thereof.

This standard Annex A, Annex B and Annex C is informative appendix.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the national wire and cable Standardization Technical Committee (SAC/TC213) centralized.

1 Scope

This standard specifies the marine non-critical communication telephone cables and general marine instrumentation, control and communication equipment communication cable specifications, knot Configuration, and performance requirements.

This standard applies to non-marine cables and telephone communication important marine general instrumentation, control and communication equipment communication cable.

Cables in this standard is mainly used in AC or DC 60V and below the system of work, but also in case of failure or AC DC voltage 250V and below during normal operation.

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 2951.11-2008 cable and the cable Common test methods for insulating and sheathing materials - Part 11. Common test methods - Thick Degree and diameter size measurement - mechanical tests (IEC 60811-1-1:2001, IDT) GB/T 3956-2008 conductor cable (IEC 60228:2004, IDT) GB/T 12269-1990 General specification for radio frequency cable (idt IEC 60096-1) GB/T 18380.12-2008 burning test and optical fiber cables under fire conditions - Part 12. single insulated wire and cable fire Test 1kW pre-mixed flame spread vertical flame test methods (IEC 60332-1-2:2004, IDT) GB/T 18380.22-2008 and optical fiber cables under fire conditions - Test - Part 22. single small insulated wire or cable Test for vertical flame spread diffusion flame test methods (IEC 60332-2-2:2004, IDT) GB/T 18380.33-2008 burning test and optical fiber cables under fire conditions - Part 33. vertically mounted bunched wires Cable vertical flame spread test class A (IEC 60332-3-22:2000, IDT) GB/T 19666-2005 retardant and fire-resistant wire and cable General GB/T 20637-2006 Electrical installations in ships shipboard power cables - General construction and test requirements (IEC 60092-350.

2001, IDT)

IEC 60092-351:2004 Electrical installations in ships - Part 351. Marine and offshore platforms with power, control, instrumentation, and digital communications According to the cable insulation material IEC 60092-359:1999 Electrical installations in ships shipboard power and telecommunication cables with sheathing material IEC 60189-1. 1965 PVC insulation and PVC sheath frequency cables and wires - Part 1. General test and measurement Volume method IEC 60189-1:2007 PVC insulation and PVC sheath frequency cables and wires - Part 1. General test and measurement Volume method IEC 60189-2:2007 PVC insulation and PVC sheath frequency cables and wires - Part 2. Internal means double Core, three-core, four-core and five-core cable