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

GB/T 17556-2010

Replacing GB/T 17556-1998

**Sheathing materials for shipboard power and
telecommunication cables**

船用电力和通信电缆护套材料

(English Translation)

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Foreword

This standard is identical with IEC 60092-359:1999 "marine electrical equipment Part 359. Shipboard power and communication cable sheathing material material". (English Version) this standard is equivalent translation IEC 60092-359:1999, for ease of use, this standard the following editorial changes.

- "." A) with a decimal point instead of IEC 60092-359:1999 as a decimal point, "";
- b) Remove the IEC 60092-359:1999 Introduction and Foreword;
- c) The IEC standard referenced in the foreword of this standard into the second chapter. For IEC 60092-359:1999 international standard reference , There is adopted as the equivalent of the standard by reference in this part of the standard instead of the international standard, the rest is not identical with me State standards are directly referenced in the standard;
- d) To illustrate the references, the latest version of the standard undated, footnote "1)", "2)", "3)" will be explained, the original IEC footnote number "1)" to "4)";
- e) according to IEC 60092-351. allow the normal operation of the 2004 cable conductor maximum temperature of Table 1 temperature value added to footnote "*", "***" Will be described.

This standard replaces GB/T 17556-1998 "shipboard power and telecommunication cable sheathing materials." this standard and GB/T 17556-1998, compared the main technical changes are as follows.

- a) mechanical properties. SHF1, minimum elongation at fracture rate SHF2 before aging 125% to 120%.
- b) Special Features.

--- Increasing the low-temperature performance test winding test, tensile test and impact test equipment, or in the case of the sample has been pre-cooled, Cooling time

requirements;

--- Modified SHF1, SHF2 smoke transmittance requirements;

--- Increasing the ozone resistance test requirements.

c) adds an appendix.

Appendix A of this standard is an informative annex.

The standard proposed by China Shipbuilding Industry Corporation.

This standard by the National Standardization Technical Committee Marine Boats (SAC/TC12) centralized.

This standard was drafted. China Shipbuilding Industry Corporation seventh THOUSAND AND FORTY Institute, Shanghai Shenghua Cable Group, Changzhou 8 benefit cable Limited the company.

1 Scope

This standard specifies the test requirements of mechanical properties and special properties of shipboard power and telecommunication cables sheathing materials.

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 2951.2-1997 cable insulation and sheathing materials test methods - Part 1. General test methods - Part 2. Hot Aging methods (idt IEC 60811-1-2. 1985) GB/T 2951.4-1997 cable insulation and sheathing materials test methods - Part 1. General test methods - Part 4.

Low temperature test (idt IEC 60811-1-4. 1985) GB/T 2951.5-1997 cable insulation and sheathing materials test methods - Part 2. elastomeric compounds specific test side Act 1. Ozone resistance test Hot set test - Mineral oil immersion test (idt IEC 60811-2-1. 1986) GB/T 2951.6-1997 cable insulation and sheathing materials test methods - Part 3. Test specific to PVC compounds Methods Section 1. Pressure test temperature resistance to cracking (idt IEC 60811-3-1. 1985) GB/T 2951.7-1997 cable insulation and sheathing materials test methods - Part 3. Test specific to PVC compounds Method 2. Loss of mass test - Thermal stability test (idt IEC 60811-3-2. 1985) Gases evolved during combustion IEC 60754-1 cable test methods - Part 1. polymeric materials taken from electric cables released by combustion Halogen acid gas measurement 1) IEC 60811-1-1. 1985 Common

test methods for cable insulation and sheathing materials - Part 1. General Test Methods 1. Thick Degree and dimensions measuring mechanical tests IEC 61034-1 cables burning under defined conditions Measurement of smoke density - Part 1. Test apparatus 2) IEC 61034-2 cables burning under defined conditions Measurement of smoke density - Part 2. Test procedure and requirements 3)

3.1 General

The maximum temperature of the standard type of jacket mixture containing normal operation code and allow the cable conductor when the Table 1.

- 1) IEC 60754-1 existing version of IEC 60754-1:1994.
- 2) IEC 61034-1 existing version of IEC 61034-1:2005.
- 3) IEC 61034-2 existing version of IEC 61034-2:2005.

Table 1 Type jacket mixture, and the normal operation of the code when the cable conductor allows the maximum temperature

Jacket mixture type code Maximum normal operating temperature of the cable conductor allowable

Thermoplastic

--- Based on polyvinyl chloride or a vinyl chloride - vinyl acetate copolymer

--- Halogen-free

ST1 60 *

ST2

SHF1