

ICS 47.020.60
CCS U 60



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

GB/T 43527-2023

**Electrical installations in ships - Electromagnetic compatibility -
Optimising of cable installations on ships - Testing method of
routing distance**

船舶电气设备 电磁兼容性 船舶电缆敷设优化 敷设间距的试验方法

(English Translation)

Issued on: December 28, 2023

Implemented on: July 1, 2024

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is equivalent to IEC TR62482:2008 "Electromagnetic Compatibility of Ship Electrical Equipment, Optimization of Ship Cable Laying, Laying Room Test methods for distance: The file type is adjusted from IEC technical report to my country's national standard:

This document has made the following minimal editorial changes:

---To avoid involving commercial information, the product manufacturer name in Table A:1

has been deleted (see A:1):

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document describes a test method for determining the minimum laying spacing of shipboard cables to avoid fast transient burst crosstalk:

The test results of this document apply to cable laying in compliance with IEC 60092-352:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

Note: GB/T 13029.1-2003 Selection and installation of cables for low-voltage power systems in ship electrical installations (IEC 60092-352:1997, IDT) IEC 60092-353 Ship electrical equipment Part 353: Extruded solid insulated single core and multiple cores with rated voltages 1kV and 3kV and 3kV) Note: GB/T 9331-2008 Extruded insulated non-radial electric field single-core and multi-core power cables with rated voltages of 1kV and 3kV for ship electrical installations (IEC 60092-353:1995, IDT) IEC TR60092-370 Marine electrical installations Part 370: Selection of telecommunications and data transmission cables including radio frequency cables IEC 60092-376 Ship electrical equipment Part 376: 150/250V (300V) cables for control and instrument circuits [Electri-Note: GB/T 9332-2008 150/250V (300V) cables for ship electrical installation control and instrument circuits (IEC 60092-376:2003, IDT) Note: GB/T 28561-2023 Ship electrical equipment automation, control and measuring instruments (IEC 60092-504:2016, IDT) IEC 60533:2015 Electromagnetic compatibility (EMC) of ships' electrical and electronic equipment Ships with metal enclosures [Electrical and Note: GB/T 10250-2007 Electromagnetic compatibility of ship electrical and electronic equipment (IEC 60533:1999, IDT) IEC 61000-4-4 Electromagnetic compatibility Part 4-4: Testing and measurement techniques Electrical fast transient burst immunity test [Elec-transient/burst immunity test] Note: GB/T 17626.4-2018 Electromagnetic compatibility test and measurement technology Electrical fast transient pulse group immunity test (IEC 61000-4-4:2012, IDT) Note: GB/T 17737.1-2013 Coaxial communication cables Part 1: General specifications, definitions and requirements (IEC 61196-1:2005, IDT)