

# International Standard

**ISO 18821** 

## Ships and marine technology — Marine combined connecting mooring line

First edition 2025-10

Navires et technologie maritime — Ligne d'amarrage (2002) Combinée marine

(https://standards.iteh.ai)
Document Preview

ISO 18821-2025

https://standards.iteh.ai/catalog/standards/iso/77538ce1-91ce-4aa2-9744-3641f5e8d5e9/iso-18821-2025

ISO 18821:2025(en)

# iTeh Standards (https://standards.iteh.ai) Document Preview

<u>ISO 18821:2025</u>

https://standards.iteh.ai/catalog/standards/iso/77538ce1-91ce-4aa2-9744-3641f5e8d5e9/iso-18821-2025



#### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

### ISO 18821:2025(en)

Contents		Page
Fore	eword	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	
4	Classification, structure and code 4.1 Classification 4.2 Structure 4.3 Codes	2 2 3
5	Design requirements 5.1 General 5.2 Specifications 5.2.1 Steel wire rope used as mooring line 5.2.2 Synthetic fibre rope as mooring line 5.2.3 Connection device 5.2.4 Tails 5.2.5 Combined line 5.3 Designation	
6	Test methods 6.1 General 6.2 Surface quality 6.3 Dimensions 6.4 Linear density 6.5 Breaking force 6.6 Proof load and ultimate load 6.7 Cyclic loading and axial compression resistance 6.8 Immediate strain 6.9 Angled endurance	
Anno	nex A (informative) Specifications of mooring rope	10
	nex B (informative) Specifications of connection devices 4aa2-9744-3641.f5e8d5e9/is	
	nex C (informative) Tails specifications	
	nex D (informative) Specifications of combined lines	
	nex E (informative) Proof load and ultimate load test of the connection devices	
	nex F (informative) Example test report of combined line	
	liography	

#### ISO 18821:2025(en)

#### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="https://www.iso.org/directives">www.iso.org/directives</a>).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <a href="https://www.iso.org/patents">www.iso.org/patents</a>. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

ISO 18821-2025

https://standards.iteh.ai/catalog/standards/iso/77538ce1-91ce-4aa2-9744-3641f5e8d5e9/iso-18821-2025