



CERTIFICATE NUMBER	20-1645912-PDA
EFFECTIVE DATE	20-May-2020
EXPIRY DATE	19-May-2025
ABS TECHNICAL OFFICE	Global Offshore - US

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

### **YALE CORDAGE**

located at

**77 INDUSTRIAL PARK ROAD, SACO, ME, United States, 4072**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product Rope, Marine High Modulus Polyethylene (HMPE)**

**Model Yale Cordage Unitrex & Unitrex XS 8**

This Product Design Assessment (PDA) Certificate remains valid until 19/May/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

Jess G. Totten, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

## YALE CORDAGE

77 INDUSTRIAL PARK ROAD

SACO ME

United States 4072

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Fax: 207-282-4620

Email: [dboord@yalecordage.com](mailto:dboord@yalecordage.com)

Web: [yalecordage.com](http://yalecordage.com)

**Tier: 2 - PDA Issued**

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**Product:** Rope, Marine High Modulus Polyethylene (HMPE)

**Model:** Yale Cordage Unitrex & Unitrex XS 8

**Intended Service:**

Marine Application - Marine Lifting Slings & Mud Rope for Anchoring System: Towing Hawser, Ship Assist Lines and Mooring Lines

**Description:**

Parallel Core High Modulus Polyethylene (HMPE) Rope

**Rating:**

Maximum Temperature: 150 °F (65 °C)

Unitrex: Nominal Diameter: 0.44" (11 mm) to 2.20" (56 mm)

Unitrex XS 8: Nominal Diameter: 1.5" (38 mm) to 4.75" (121 mm)

For details see attached "pdf"

**Service Restriction:**

1. Unit Certification is not required for this product.
2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
3. We note that the Unitrex data sheet indicates a safety factor of 4. For underwater applications, the safe working load is to be de-rated based on a safety factor of 7 for running rope and 5 for standing rope in accordance with Section 19/7.1.2 of the Underwater Rules.

**Comments:**

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Product testing is required if the external fibers have faded or embrittled during visual and tactile inspection.

**Notes/Drawing/Documentation:**

Drawing No. ABS Type Approval Application for Spectra Data Sheet, ABS Type Approval Application for Spectra Data Sheet, Revision: -, Pages: 1

Drawing No. Correspondence, Email Quote 06-Jun-2017 subj: ABS Type Approval for Yale Cordage, Revision: -, Pages: 1

Drawing No. Correspondence, Email Quote 06-Jun-2017 subj: ABS Type Approval for Yale Cordage, Revision: -, Pages: 2

Drawing No. P39142, PURCHASE ORDER, Revision: -, Pages: 1

Drawing No. Spectra Data Sheet, Spectra Data Sheet, Revision: -, Pages: 1

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 19/May/2025 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

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This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

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**STANDARDS**

**ABS Rules:**

Rules for Conditions of Classification, Part 1 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4  
2020 Rules for Building and Classing Underwater Vehicles, Systems, and Hyperbaric Facilities, 19/7.1.2, 19/13,  
19/51.5

**National:**

Cordage Institute Standard CI-1500

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA