



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 11-SEP-2023. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Wire Rope

Model Name(s): Nominal Rope Dia. 3/8" to 5" (9mm to 127mm)

Presented to:

USHA MARTIN LIMITED
(WIRE ROPES & SPECIALITY PRODUCTS DIVISION)
WORKS, TATISILWAI
JHAKHAND 835103
India

Intended Service: Oil Field and Mooring Applications.

Description: Stranded Steel Wire Rope.

Tier: 3

Ratings: 6x7-FC (Dia. 9.0 - 40.0 mm, Grade 1770 N/mm², 1960 N/mm², IPS, EIP): Minimum Breaking Force refers to Table C.1 of API Spec 9A; 6x7-WSC/IWRC (Dia. 9.0 - 40.0 mm, Grade 1770 N/mm², 1960 N/mm², IPS, EIP): Minimum Breaking Force refers to Table C.2 of API Spec 9A; 6x19S-IWRC & 6x19W-IWRC (Dia. 9.0 - 60.0 mm, Grade 1770 N/mm², 1960 N/mm², 2160 N/mm², IPS, EIP, EEIP): Minimum Breaking Force refers to Table C.8 of API Spec 9A; 6x31WS-FC (Dia. 9.0 - 60.0 mm, Grade 1770 N/mm², 1960 N/mm², 2160 N/mm², IPS, EIP, EEIP): Minimum Breaking Force refers to Table C.9 of API Spec 9A; 6x36WS-IWRC (Dia. 9.0 - 60.0 mm, Grade 1770 N/mm², 1960 N/mm², 2160 N/mm², IPS, EIP, EEIP): Minimum Breaking Force refers to Table C.10 of API Spec 9A;

Service Restrictions: 1. Unit Certification is not required for this product. 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. 2. In those instances where flag Administration may have their own specific requirements e.g. USCG, specific flag Administration's approval may be

required.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. 2. If the type approved wire ropes are intended for use as topline wire or rope, and hawsers on ABS Classed Vessels, the breaking strength of the rope is to be in accordance with 3-5-1 of ABS Rules for Building & Classing Steel Vessels 2018/Steel Vessels Under 90 Meters (295 Feet) in Length 2018/Offshore Support Vessels 2018/High-Speed Craft 2018/Steel Vessels for Service on Rivers and Intracoastal Waterways 2018 or 3-3-1 of ABS Rules for Building & Classing Steel Barges 2018 (as applicable), which is not part of this review. 3. If the wire ropes are intended for use on ABS certified lifting appliances, they must also comply with the ABS Guide for Certification of Lifting Appliances, January 2018 (Updated August 2018).

Notes / Documentation:

This certificate is based on the following: (a) Document "Sample Design of Rope (Cross Sectional View), Specification: API Specification 9A, 26th Edition, November 2011 & ISO 10425:2003". (b) Survey Reports by ABS Surveyor (Report Number CC3416924 dated 28 Nov 2017, CC3376842 dated 31 Aug 2017, CC3538072 dated 11 Aug 2018 & CC3510077 dated 16 Jun 2018).

Term of Validity:

This Product Design Assessment (PDA) Certificate 18-SG1784060-PDA, dated 12/Sep/2018 remains valid until 11/Sep/2023 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

ABS Rules:

(1) ABS Rules for Building and Classing Steel Vessels, 2018: 1-1-4/7.7, 1-1-A3 and A4 (2) ABS Rules for Building and Classing Steel Vessels Under 90 Meters (295 Feet) in Length, 2018: 1-1-4/7.7, 1-1-A3 and A4 (3) ABS Rules for Building and Classing Facilities on Offshore Installations, 2018: 1-1-4/9.7, 1-1-A2 and A3 (4) ABS Rules for Building and Classing Offshore Support Vessels, 2018: 1-1-4/7.7, 1-1-A3 and A4 (5) ABS Rules for Building and Classing Mobile Offshore Drilling Units, 2018: 1-1-4/9.7, 1-1-A2 and A3 (6) ABS Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways, 2018: 1-1-4/7.7, 1-1-A3 and A4 (7) ABS Rules for Building and Classing High-Speed Craft, 2018: 1-1-4/11.9, 1-1-A2 and A3 (8) ABS Rules for Building and Classing Steel Barges, 2018: 1-1-4/7.7, 1-1-A3 and A4

National Standards:

NA

International Standards:

(1) API Specification 9A, Twenty-sixth Edition, November 2011 (2) ISO 10425:2003.

Government Authority:

NA

EUMED:

NA

Others:

NA

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	18-SG1784060-PDA	25-SEP-2018	11-SEP-2023

ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in

class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.