



Marine & Offshore

Certificate number: 18999/D0 BV

File number: ACE 01/757/01

Product code: 2501H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

NEXANS

BOHAIN - FRANCE

for the type of product

CABLES (LOW VOLTAGE)

450/750V or 06.1/kV

TITANEX

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

IEC 60092-350 (2020), IEC 60092-353 (2016), IEC 60092-360 (2021)

IEC 60228 (2015)

IEC 60332-1-2 (2005)

IEC 60811 (2012)

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 18 Oct 2027

For Bureau Veritas Marine & Offshore,

At BV VALENCIENNES, on 18 Oct 2022,

Philippe Calbet

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=amka7wdeg6>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

- Product model or type designation:

Titanex Type

- Product description:

Flame retardant Marine and Offshore Power, Lighting and Control cables

1.1 - Common specifications:

| | |
|--------------------|---------------------|
| Rated voltage: | 450/750V or 0.6/1kV |
| Temperature class: | 90°C |
| Flame retardant: | IEC 60332-1 |

1.2 - Construction:

| | |
|-------------|-------------------------------------|
| Conductor: | Stranded plain copper wire, Class 5 |
| Insulation: | EPR |
| Sheath: | SE |

1.3 - Product Range:

| Type | Number of cores | Cross-Section. area (mm ²) |
|----------------|-----------------|--|
| TITANEX | 1 | 1.5 to 630 |
| | 2 | 1 to 25 |
| | 3 | 1 to 300 |
| | 4 | 1 to 240 |
| | 5 | 1 to 150 |
| | 6 to 37 | 1 to 16 |

2. DOCUMENTS AND DRAWINGS:

Specification dated 30 Jun 2022

3. TEST REPORTS:

Nexans Three Unreferenced Test Reports dated 27 October 2006 (witnessed by BV's Surveyor).

Nexans Flame resistant Test Reports No: 06/10/09, 06/10/10 and 06/10/11 dated 20/10/06 (witnessed by BV's Surveyor).

Test Report No : 201705302, dated 18 May 2017

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - Approval valid for units having to comply with IMO Resolution A.1023(26) (The "MODU Code").

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **NEXANS** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **NEXANS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **NEXANS** has declared to Bureau Veritas the following production site:

NEXANS
48, rue Paulin Pecqueux
02110 BOHAIN
FRANCE

6. MARKING OF PRODUCT:

The cable shall be marked on the surface outer sheath, in a durable legible and visible manner, with the following information through the length of cable:

- 6.1 - Voltage grade
- 6.2 - Cable symbol and temperature class
- 6.3 - Number of conductors and conductor size
- 6.4 - Applicable standard(s) to flame retardant
- 6.5 - Manufacturer's name or trademark
- 6.6 - Year of manufacture

7. OTHERS:

7.1 - It is **NEXANS's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate No. 18999/C0 BV issued on 21 Jul 2017 by the Society.

***** END OF CERTIFICATE *****