



Marine & Offshore

Certificate number: 60170/A1 BV

File number: ACE1/857/2

Product code: 25011

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

PRYSMIAN CABLES SPAIN SA
VILANOVA I LA GELTRÚ(BCN) - SPAIN

for the type of product

CABLES (LOW VOLTAGE)

1.8/3kV

AFUMEX NAU XAOTCAU

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

IEC 60092-350 (2014), IEC 60092-353 (2016), IEC 60092-360 (2014)

IEC 60228 (2004)

IEC 60332-1-2 (2015), IEC 60332-3-22 Cat.A (2018)

IEC 60754-1 (2013), IEC 60754-2 (2011)

IEC 61034-1/2 (2013)

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: 01 Apr 2025

For Bureau Veritas Marine & Offshore,

At BV BILBAO, on 28 Apr 2020,

Juan Jose GUTIERREZ GARCIA



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=kxftfdpk21>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

1.1 - Specifications:

Rated voltage:	1.8/3kV
Temperature class:	90°C
Flame retardant:	IEC 60332-1-2, IEC 60332-3-22 Cat.A
Halogen free:	IEC 60754-1/2
Low smoke:	IEC 61034-1/2

1.2 - Construction:

Conductor:	Annealed copper wire, Class 5
Insulation:	XLPE
Screen	Helically copper tape overlapped
Armour:	Tinned copper wire braid
Outer sheath:	SHF1

1.3 - Approval range:

Type	Number of core	Cross-Sect. area (mm ²)
AFUMEX NAU XAOTCAU	3	95, 120

2. DOCUMENTS AND DRAWINGS :

Specification Ref. AFUMEX NAU XAOTCUA CL5 1,8/3kV VFD (EMC) (CTA CU + TR CU SN), Rev. 4, dated 01 Jul 2019.

3. TEST REPORTS :

PRYSMIAN CABLES SPAIN SA:

Tests report N° BV-TA-01-2020, dated 20 Feb 2020.

Tests reports N° di_28840 to di_28847, dated 16 Mar 2020.

4. APPLICATION / LIMITATION :

BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **PRYSMIAN CABLES SPAIN SA** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - For information, **PRYSMIAN CABLES SPAIN SA** has declared to Bureau Veritas the following production sites:

PRYSMIAN CABLES SPAIN SA
Carretera C-15 - Km. 2
08800 VILANOVA I LA GELTRÚ(BCN)
SPAIN

PRYSMIAN CABLES SPAIN, S.A. -Planta SANTA PERPETUA DE MOGODA-
Carrer Can Vinyalets, 2
8130 Santa Perpètua de Mogoda, Barcelona
08130 Santa Perpètua de Mogoda
SPAIN

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:

- 1) - Voltage grade.
- 2) - Cable symbol and temperature class.
- 3) - Number of conductors and conductor size.
- 4) - Applicable standard(s) to flame retardant and fire resistance if any
- 5) - Manufacturer's name or trade mark.
- 6) - Year of manufacture.

7. OTHERS :

7.1 - It is **PRYSMIAN CABLES SPAIN SA**'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 N° 60170/A0 BV issued on 01 Apr 2020 by the Society.

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