



MARINE DIVISION

Certificate number: 12975/B0 BV

File number: ACE 01/145/07

Product code: 25011

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

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**NEXANS**  
PAILLART - FRANCE

*for the type of product*

**CABLES (LOW VOLTAGE)**

250V  
BLI & FCI series

**Requirements:**

BV Rules for the Classification of Steel Ships.

IEC 60092-350/351/353/359, IEC 60228, IEC 60332-1-2, IEC 60332-3-22 Cat.A, IEC 61034-1, IEC 60754-1

*This certificate is issued to attest that BUREAU VERITAS 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: 03 Sep 2018**

For BUREAU VERITAS,

At BV VALENCIENNES, on 03 Sep 2013,

Lucien Fratini



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. 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 Division 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 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 SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

Low voltage cables for Marine and Offshore applications.

#### 1.1 - Specification:

Rated voltage:	250V
Temperature class:	95°C
Flame retardant:	IEC 60332-1-2, IEC 60332-3-22 Cat.A
Low smoke:	IEC 61034-1
Halogen free:	IEC 60754-1

#### 1.2 - Construction:

Conductor	Stranded of tinned copper wire
Insulation:	LSZH-FR, BLI type XLPE, FCI type
Separator:	Polyester separator tape
Shield:	Braid of tinned copper wire
Outer sheath:	SHF1 & SHF2, BLI type SHF2, FCI type

#### 1.3 - Range:

Reference	Number of pairs	Cross-Sect. Area (mm <sup>2</sup> )	Type
2PC921	1	0.22	BLI 0-HAL
2PC922	2		
2PC923	5		
2PC924	6		
2PC925	9		
2PK447	1	0.22, 0.60	FCI
2PK448	2		
2PK449	5		
2PK450	9		
2PL735	13		

### 2. DOCUMENTS AND DRAWINGS :

According to Manufacturer's Specifications FILOTEX, dated 18/09/02.

Nexans data sheet n°DTR 01/13 issue 2, dated 05/04/2013.

### 3. TEST REPORTS :

#### Nexans Paillart:

Nexans Paillart test reports dated 17/01/03.

The tests were witnessed by BV Surveyor (cf. BV report N° 1131734/02 dated 17/04/03)

Tests reports regrouped in acceptance file N°DTR 01/13 issue 1, dated 29.04.2013 witnessed and reviewed by BV'Surveyor.

### 4. APPLICATION / LIMITATION :

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

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above cables are to be supplied by NEXANS 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.

### 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.
- 3) Cable size.
- 4) Manufacturer's name or trade mark.
- 5) Year of manufacture.

**7. OTHERS :**

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the cables at any time, and that NEXANS, will accept the responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the cables and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 12975/A0 BV issued on 26.06.2003 by the Society.

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