



MARINE DIVISION

Certificate number: 36355/A0 BV

File number: ACE 01/145/01

Product code: 2505I

*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*

### INSTRUMENTATION AND COMMUNICATION CABLES

FLAMEX KX & RG

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

IEC 60092-359

IEC 60332-1-2

IEC 60332-3-22

*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: 19 Nov 2018**

**For BUREAU VERITAS,**

At BV VALENCIENNES, on 19 Nov 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:

Zero Halogen Cables type **FLAMEX**:

KX 3B	RG 174
4	213
6A	59
8	11
13	214
14	218
15	58
	6
	212
	217
	216
	223
	177
	164

### 2. DOCUMENTS AND DRAWINGS:

Technical notes: OHAL.G6 & PE.I7

### 3. TEST REPORTS:

BUREAU VERITAS Report VLS.1I.98.0463.F.

### 4. APPLICATION / LIMITATION:

4.1 - Insulation: PE

4.2 - Sheath: SHF1.

#### 4.3 - **Application / Limitation of use:**

According to BUREAU VERITAS Rules for the Classification of Steel Ships and IEC 60092 series.

#### 4.4 - **On board installation & Maintenance requirements:**

According to BUREAU VERITAS Rules for the Classification of Steel Ships and IEC 60092 series.

### 5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products 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:

- Voltage grade
- Cable symbol
- Cable size
- Manufacturer's name or trade mark
- 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, Paillart - France**, 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° 07902/B0 BV issued on 20/06/2003 by the Society.

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