


## TYPE APPROVAL CERTIFICATE

No. ELE066114CS/027

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>ELECTRIC CABLES</b>
<i>Type</i>	<b>LKAM-HF 0,6/1 kV; LKAM-SHF2 0.6/1 kV.</b>
<i>Applicant</i>	<b>HELKAMA BICA OY LAKIMIEHENKATU 4 FIN 20780 KAARINA FINLAND</b>
<i>Manufacturer</i>	<b>HELKAMA BICA OY</b>
<i>Place of manufacture</i>	<b>LAKIMIEHENKATU 4 FIN 20780 KAARINA FINLAND</b>
<i>Reference standards</i>	<b>RINA Rules for the Classification of Ships, Part C, Chapter 2, Section 9; RINA Rules for Testing and Certification of Marine Materials and Equipment; IEC 60092-350; IEC 60092-353.</b>

Issued in **Genova** on **April 27, 2015**. This Certificate is valid until **April 27, 2020**



RINA Services S.p.A.  
**Valerio Bonanni**

This certificate consists of this page and 1 enclosure





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**Enclosure - Page 1 of 1**

**LKAM-HF 0,6/1 kV**

**LKAM-SHF2 0.6/1 kV.**

**Materials/Components**

Shipboard screened control and instrumentation cables, flame retardant, for fixed installations in marine and offshore units.

Rated voltage: 0.6/1 kV

Type: LKAM-HF 0.6/1 kV; LKAM-SHF2 0.6/1 kV.

Marking: Cable type - n X s mm<sup>2</sup> - 0.6/1 kV - +90°C - IEC 60092-353 - 60332-3-22 HELKAMA - month-year - length marking.

**Construction:**

conductor: stranded plain or tinned copper conductor (IEC 60228 Class 2).

insulation: XLPE

stranding: cores stranded together.

covering: wrapped tape(s) of non-hygroscopic material

collective screen: laminated electrostatic screen. Aluminiumpolyester tape with a drain wire

sheath: SHF1

Max. conductor temperature: +90°C.

In accordance to rules IEC 60228 cl.2; IEC 60092-350; IEC 60092-351; IEC 60092-376; IEC 60092-359; IEC 60092-360 as applicable; IEC 60332-1-2; IEC 60332-3-22; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2; RINAMIL rules.

**Conductor size:**

cross sectional area 1.0; 1,5; 2.5 mm<sup>2</sup>.

Technical specification: HBKQ 9 spec.28 14.4.2015/dk.

**Note/Remarks:**

The product is subject to the compliance with RINA Rules and Standards mentioned on the certificates

Type Approval certifies that a representative sample of the products has been found to meet the applicable design criteria

Any modification of change shall not be valid until approval is granted by RINA as a result of due assessment.

**Other Place of Manufacturing:**

HELKAMA BICA (SHANGHAI) Co., Ltd  
Plot 1-2, MingHang Export Processing  
Zone, SHANGHAI, 201401 P.R.C.

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**Genova April 27, 2015**