

**TYPE APPROVAL CERTIFICATE**  
No. ELE066114CS/022

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

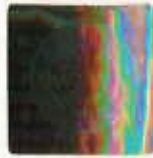
<i>Description</i>	<b>ELECTRIC CABLES</b>
<i>Type</i>	<b>RFE-HF(i) 250 V; RFE-SHF2(i) 250 V</b>
<i>Applicant</i>	<b>HELKAMA BICA OY LAKIMIEHENKATU 4 FIN 20780 KAARINA FINLAND</b>
<i>Manufacturer</i>	<b>HELKAMA BICA OY</b>
<i>Place of manufacture</i>	<b>LAKIMIEHENKATU 4 FIN 20780 KAARINA FINLAND</b>
<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 60092-376.</b>

*Issued in* **Genova** on **April 7, 2015**. *This Certificate is valid until* **April 7, 2020**



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

This certificate consists of this page and 1 enclosure



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**RFE-HF(i) 250 V**

**RFE-SHF2(i) 250 V**

**Materials/Components**

Shipboard control, communication and instrumentation cables, flame retardant, low smoke emission, halogen free.

Rated voltage: 250 V

Type: RFE -HF(i) 250 V; RFE -SHF2(i) 250 V

Marking: "lot number" cable type n x s mm<sup>2</sup> 250 V 90°C IEC 60092-376 IEC 60332-3-22 HELKAMA  
"month-year" "length marking"

**Construction:**

conductor: stranded plain or tinned copper (IEC 60228 Class2)

insulation: XLPE

pairs and individual shield: polyester coated aluminium tape and a polyester tape

covering: wrapped tapes of non-hygroscopic material

armour: braid of plain or tinned copper wires

sheath: SHF1 or SHF2

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

Maximum conductor temperature: 90°C

Technical Specification: HELKAMA SPECIFICATION HBKQ 9.SPEC.36 7.4.2005/dk.

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.

The present Certificate cancel and replaced the previous N. ELE196009CS/004 dated April 8, 2010.

**Other Place of Manufacturing:**

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

b) HELKAMA BICA Oy  
Lasitehtaankatu 12, FI-10960 Hanko, Finland.

**Genova April 7, 2015**