

**POTVRDA O TIPNOM ODOBRENJU**
TYPE APPROVAL CERTIFICATE

Br /No	03-001298/030962
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Potvrđuje se da je ovaj proizvod, u skladu s Pravilima za klasifikaciju brodova, Dio 1. - Opći propisi, Odjeljak 3. - Tipno odobrenje proizvoda, odobren za ugradnju na brodove i postrojenja pod nadzorom Hrvatskog registra brodova.

This is to certify that this product, on the basis of the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products, is approved for use on board ships and installations under supervision of the Croatian Register of Shipping.

TIP I OPIS PROIZVODA:*TYPE AND DESCRIPTION OF PRODUCT:***BRODSKI VODIČ ZA OŽIČENJE PLOČA BEZHALOGENI I TEŠKO GORIVI**
*SHIPBOARD SWITCHBOARD WIRE HALOGEN FREE AND FLAME RETARDANT***LKEM-HF 0,6/1 (1,2) kV****PROIZVOĐAČ:***MANUFACTURER:*

HELKAMA BICA Oy
Lakimiehenkatu 4
FIN-20780 Kaarina
FINLAND

PROIZVOD UDOVOLJAVA SLIJEDEĆIM PRAVILIMA/PROPISIMA:*THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:*

HRB PRAVILA ZA KLASIFIKACIJU BRODOVA: DIO 12 - ELEKTRIČNA OPREMA
CRS RULES FOR THE CLASSIFICATION OF SHIPS: PART 12 - ELECTRICAL EQUIPMENT

Helkama specification: HBKQ 9 spec.33

Technical specification:

Design standard: IEC 60092-353 (3rd ed 2011-08),
Single and multicore non-radial field power cable 0,6/1 kV

Other standards:

- testing: IEC 60092-350 (3rd Ed. 2008-02), General constructions and testing requirements

- insulation: IEC 60092-351 (3rd ed. 2004-04), Insulating materials for shipboard power cables

- sheathing: IEC 60092-359 (1.2nd ed. 1999-08)

Sheathing materials for shipboard power and telecommunication cables

DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEDINI.*FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.***ODOBRENJE VRIJEDI DO: 2016-02-10***APPROVAL IS VALID UNTIL:***Mjesto i datum: Split, 2012-02-10***Place and date:***M.P.***(Seal)***Goran Begović, dipl.ing.**

NAPOMENA: Ova potvrda nije valjana ako se proizvod ili način njegove proizvodnje promijenio u odnosu na tipno ispitani proizvod. Proizvođač treba obavijestiti Hrvatski registar brodova o bilo kojoj izmjeni na proizvodu kako bi ishodio valjanu potvrdu.

NOTE: This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

PODROBNJI OPIS PROIZVODA:
DETAILED PRODUCT DESCRIPTION:

Flame retardant, halogen free, crosslinked polyethylene insulated, power, lighting and switchboard wiring cable.

LKEM-HF 0.6/1(1.2) kV

Number of cores	<u>Cross sect area [mm²]</u>
1	0.75 to 300

PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:
APPLICATION / LIMITATIONS:

Fiksna ugradnja na pomorskim brodovima, odobalnim objektima i industriji.
Fixed installation in marine, offshore and industrial use.

DOKUMENTACIJA ZA TIPNO ODOBRENJE:
TYPE APPROVAL DOCUMENTATION:

Helkama Aplication on LKEM-HF 0.6/1 (1,2) kV 150/250 V (300 V)	2012-01-27
Helkama LKEM-HF 0.6 (1,2) kV Cable Data Sheet Specification HBKQ 9. Spec 33 incl. App 2	2011-11-10

Izveštaj o ispitivanju/ test report:

Dim/Type test 2000.xls; MC2/ Type test 2000.xls; Hostes/ Type test 2000.xls; Ins_res/ Type test 2000.xls; Inc.cap/ Type test 2000.xls; HST/ Type test 2000.xls; IEC 332-1/ Type test 2000.xls; Cold_S/ Type test 2000.xls; ozane/ Type test 2000.xls;

OZNAČAVANJE PROIZVODA:
MARKING OF PRODUCT:

LKEM-HF size mm² 0,6/1 kV + 90°C HELKAMA (mm-yy)

UVJETI ZA CERTIFIKACIJU:
CONDITIONS FOR CERTIFICATION:

NON

Račlana

12.05.01

Zamjenjuje potvrdu

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