

**POTVRDA O TIPNOM ODOBRENJU**
TYPE APPROVAL CERTIFICATE

Br /No 03-001293/030962

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 INSTRUMENTACIJSKI, KOMUNIKACIJSKI I KONTROLNI KABEL BEZHALOGENI I TEŠKO GORIVI***SHIPBOARD INSTRUMENTATION, COMMUNICATION AND CONTROL CABLE HALOGEN FREE AND FLAME RETARDANT***RFE-HF / RFE-HF(i) 150/250 V (300 V)****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.10 and 36

Technical specification:

Design standard:

IEC 60092-376 (2nd ed. 2003-05),

Cable for control and instrumentation circuits 150/250 V (300 V)

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, polyolefine sheathed, instrumentation, communication and control cable.

RFE-HF – Collective screen (250 V)

RFE-HF(i) – Collective & individual screen (250 V)

RFE-HF

Number of cores	Cross Sect area [mm ²]
Pairs: 1 to 37	0.5, 0.75 & 1.5
Triple: 1	0.5, 0.75 & 1.5
Quads: 1	0.5, 0.75 & 1.5

RFE-HF (i)

Number of cores	Cross Sect area [mm ²]
(Pairs +1): 2 to 37	0.5, 0.75 & 1.5
Triple: 1	0.5, 0.75 & 1.5

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 Application on RFE-HF / FRE-HF(i) 150/250 V (300 V)	2012-01-27
Helkama RFE-HF 250 V Cable Data Sheet Specification HBKQ 9. Spec 10 incl. App 1	2010-08-03
Helkama RFE-HF(i) 250 V Cable Data Sheet Specification HBKQ 9. Spec 36 incl. App 1	2010-08-03

Izveštaj o ispitivanju/ test report:

RFE-HF/TT doc_h/ 15tt0199; Dim/15tt0199, 15.11.1999/dk; Ins_res/15tt0199, 5.11.1998/dk

OZNAČAVANJE PROIZVODA:

MARKING OF PRODUCT:

LOT ##### RFE-HF <number of conductors> x <size> mm² 250 V + 90°C IEC 60092-376,
60332-3-22 HELKAMA “month-year” and ”length marking”

LOT ##### RFE-HF(i) <number of unit(s)> x <unit> x <size> mm² 250 V + 90°C IEC 60092-376,
60332-3-22 HELKAMA “month-year” and ”length marking”

UVJETI ZA CERTIFIKACIJU:

CONDITIONS FOR CERTIFICATION:

NON

Raščlana

12.05.01

Zamjenjuje potvrdu

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