

**POTVRDA O TIPNOM ODOBRENJU**
TYPE APPROVAL CERTIFICATE

Br /No	03-001562/031263
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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 ENERGETSKI I KONTROLNI KABELI***SHIPBOARD POWER AND CONTROL CABLES***0.6/1kV****CJ..Series****PROIZVOĐAČ:***MANUFACTURER:*

Zhongtian Technology Industrial Wire & Cable System Co., Ltd.
NANTONG - CHINA

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

IEC 60092 - 350
IEC 60092 - 353
IEC 60331 - 1/21
IEC 60332 - 1 - 2
IEC 60332 - 3 - 22
IEC 60754 - 1/2
IEC 61034 - 1/2

DETALJI O PROIZVODU I UVJETIMA CERTIFIKACIJE DANI SU NA POLEĐINI.*FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.***ODOBRENJE VRIJEDI DO: 2020-11-29***APPROVAL IS VALID UNTIL:***Mjesto i datum: Split, 2016-11-29***Place and date:***M.P.***(Seal)*

Marinko Popović, 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, Fire resistant (/NA and /NC Types only), Shipboard Control and Power (C) cables.

Specifications:

Rated voltage: 0.6/1kV according to IEC 60092-353
 Temperature class: 90°C
 Flame retardant: IEC 60332-1 and IEC 60332-3-22 Cat. A
 Fire resistant: IEC 60331-1/21 (/NA and /NC Types only)
 Halogen Free: IEC 60754-1/2 (/SC and /NC Types only)
 Low Smoke: IEC 61034-1/2 (/SC and /NC Types only)

Construction:

Conductor: Stranded bare or tinned copper - Class 2 or Class 5
 Fire protection: Mica tape (/NA and /NC Types only)
 Insulation: Cross - Linked PolyEthylene - XLPE (J)
 Inner Sheath: Halogen Free Thermoplastic compound - SHF1 (PF)
 Halogen Free Thermoset compound - SHF2 (PJ)
 Thermoplastic compound - PVC (V)
 Armour: Copper wire braid (8) or Galvanized Steel wire braid (9) or None
 Outer Sheath: Thermoplastic compound - ST2 (2)
 Halogen Free Thermoset compound - SHF2 (5)
 Halogen Free Thermoplastic compound - SHF1 (6)
 None (0)

Product Range:

Type	Number of core	Cross section (mm ²)
CJV, CJV 80 90 82 92	1	1, 1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300
/SA or /NA	2	1, 1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70, 95, 120
CJ 85 86,	3	1, 1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70, 95, 120, 150, 185
CJPF, CJPF 80 90 86 96, CJPF, CJPF 80 90 85 95	4, 5, 7, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37	1, 1.5, 2.5
/SC or /NC		

PODRUČJE PRIMJENE / POSEBNI GRANIČNI UVJETI:*APPLICATION / LIMITATIONS:***Fiksna ugradnja na pomorskim brodovima, odobalnim objektima i industriji.**

Fixed installations in marine, offshore and industrial use.

DOKUMENTACIJA ZA TIPNO ODOBRENJE:*TYPE APPROVAL DOCUMENTATION:*

ZTT Technical Specification for Certification Shipboard Cables (ZTT/IC-TBA)

Izveštaj o ispitivanju/ test report:

Report no. CT10-3456-1/2/3; China national centre for quality supervision and test of electric wire and cable dated 2010-11-22

Report no. CT10-3777-1/2/3/4/5/6; China national centre for quality supervision and test of electric wire and cable dated 2010-11-22

Report no. CT10-3778-5; China national centre for quality supervision and test of electric wire and cable dated 2010-11-22

OZNAČAVANJE PROIZVODA:*MARKING OF PRODUCT:*

Zhongtain Technology Industrial Wire & Cable System Co.,Ltd. – Type – size – 0,6/1 kV – IEC 60332-3-22 – (IEC 60331-1/2)

UVJETI ZA CERTIFIKACIJU:*CONDITIONS FOR CERTIFICATION:***Registar zadržava pravo zahtijevati da se provedu potvrdni testovi na kabelima u bilo kojem trenutku.**

The Society reserves the right to require check tests to be carried out on the cables at any time.