



TYPE APPROVAL CERTIFICATE
No. ELE005524WS/003

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>	Shipboard Communication Cables
<i>Type</i>	CHJ Series, CHJP Series, CHJPF Series, CHJPJ Series CHJFPF Series, CHJPJP Series
<i>Applicant</i>	Anhui Tiankang (Group) Shares Co., Ltd. No. 20 South Renhe Road Tianchang (Anhui) CHINA
<i>Manufacturer</i>	Anhui Tiankang (Group) Shares Co., Ltd.
<i>Place of manufacture</i>	No.333, Weiyi Road, Anhui Chuzhou High tech Industrial Development Zone, Tianchang City, Anhui province, PRC
<i>Reference standards</i>	IEC 60092-350; IEC 60092-360; IEC 60092-376; IEC60228; IEC 60331-1; IEC 60331-21; IEC 60332-1; IEC 60332-3-22; IEC 60754-1/2; IEC 61034-2

Issued in **SHANGHAI** on **June 19, 2024.** *This Certificate is valid until* **June 18, 2029**

Qiang Sun

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure

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CHJ Series, CHJP Series, CHJPF Series, CHJPJ Series
CHJFPF Series, CHJPJP Series

1. Production Description:

1.1 Type and Range

+ 150/250V(300V) shipboard communication and instrumentation cables with following rating:

Type	Rated Voltage (V)	Number of Core	Conductor Cross-Section (mm ²)	Max. Temp. (°C)
CHJ86, CHJ96, CHJ85, CHJ95/SC, NC(NSC) CHJPF, CHJPF86, CHJPF96, CHJPF80, CHJPF90, CHJPJ, CHJPJ85, CHJPJ95, CHJPJ80, CHJPJ90 /SC, NC(NSC) CHJFPF, CHJFPF86, CHJFPF96, CHJFPF80, CHJFPF90/SC, NC(NSC) CHJPJP, CHJPJP85, CHJPJP95, CHJPJP80, CHJPJP90/SC, NC(NSC) CHJP86, CHJP85/SC, NC(NSC)	150/250V (300V)	1P~37P 1T 1Q	0.5,0.75, 1.0, 1.5, 2.5	90

Note:

+“Number of Core” is selected from the following series of core number (P/T/Q: pair/triple/quadruple):

1P~ 24P, 30P, 37P.

1.2 Meaning of the letters of the type

+Abbreviation:

CH: Insulated shipboard control and instrumentation cables

J: Cross-linked Polyethylene Insulated

PJ: Cross-linked Polyolefin

PF: Thermoplastic Polyolefin

P: Pair to pair shielding or total shielding or pair to pair shielding plus total shielding (tinned wire, copper wire, or aluminum foil)

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+Outer Protection:

- 8: Copper wire or tin-plated copper wire woven armor
- 9: Galvanized steel wire braided
- 5: Cross-linked Polyolefin outer sheath
- 6: Thermal plastic Polyolefin outer sheath
- 0: No outer sheath

+Flammability Code:

SC: Bunched cable flame retardant, low-smoke and halogen free

NC(NSC): Bunched cable flame retardant, fire resistance, low-smoke and halogen free

2. Reference Documents:

- + Manufacturer instruction filed by RINA with drawing No. SHEL-19448.
- + Specification of products filed by RINA with drawing No. SHEL-19450.
- + Test report "China national centre for quality supervision and test of electric wire and cable" Report No.: CT16-3473-5, CT16-3473-6 and CT16-1093. Test report "Shanghai Intelligent Service and Technology Co.,Ltd. " Report No.: TN24-1618E, TN24-1617E. Filed by RINA with drawing No.SHEL-19457.
- + Asbestos-free Declaration: Filed by RINA with drawing No. SHEL-19449.
- + Routine test report signed by attending Surveyor and filed by RINA with drawing No. SHEL-19546.

3. Notes/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 product has been found to meet the applicable design criteria.
- + Any modification or change shall not be valid until approval is granted by RINA as a result of due assessment.

SHANGHAI June 19, 2024