



TYPE APPROVAL CERTIFICATE
No. ELE005524WS/002

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 control cables
<i>Type</i>	CKE Series, CKEF Series, CKEP Series, CKEPF Series CKEPJ Series, CKEPFP Series, CKEPJP Series, CKEPJR Series, CKJ Series, CKJP Series, CKJPF Series, CKJPJ Series, CKJPFP Series, CKJPJP 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 18, 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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CE Series, CEF Series, CEPF Series
CEPJ Series, CEPFR Series, CEPJR Series
CJ Series, CJPJ Series, CJPF Series
CJPJR Series, CJPFR Series

1. Production Description:

1.1 Type and Range

+ 150/250V(300V) shipboard control cables with following rating:

Type	Rated Voltage (V)	Number of Core	Conductor Cross-Section (mm ²)	Max. Temp. (°C)
CKEF, CKEF80, CKEF90/DA,SA, NA(NSA) CKEPF, CKEPF80, CKEPF90, CKEPF86, CKEPF96, CKEPJ, CKEPJ80, CKEPJ90, CKEPJ85, CKEPJ95/SC, NC(NSC) CKEPFP, CKEFP80, CKEFP90, CKEFP86, CKEFP96, CKEJP, CKEJP80, CKEJP90, CKEJP85, CKEJP95/SC, NC(NSC) CKE86, CKE96, CKE85, CKE95, CKEP86, CKEP85/SC, NC(NSC) CKEJR, CKEJR80, CKEJR90, CKEJR85, CKEJR95, CKEJRP/SC, NC(NSC)	150/250V (300V)	2~48 (See Note)	0.5, 0.75, 1.0, 1.5, 2.5	90
CKJ86, CKJ96, CKJ85, CKJ95/SC, NC(NSC) CKJPF, CKJPF80, CKJPF90, CKJPF86, CKJPF96, CKJPJ, CKJPJ80, CKJPJ90, CKJPJ85, CKJPJ95/SC, NC(NSC) CKJPFP, CKJPFP80, CKJPFP90, CKJPFP86, CKJPFP96/SC, NC(NSC) CKJPJP, CKJPJP80, CKJPJP90, CKJPJP85, CKJPJP95/SC, NC(NSC) CKJP85, CKJP86/SC, CKJP95, CKJP96 /SC, NC(NSC)				

Note: "Number of Core" is selected from the following series of core number: 2, 3, 4, 5, 7, 8, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37, 40, 44, 48

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1.2 Meaning of the letters of the type

+Abbreviation:

CK: Shipboard control cable
J: Cross-linked Polyethylene Insulated
E: Ethylene-propylene Rubber Insulated
PJ: Cross-linked Polyolefin
PF: Thermoplastic Polyolefin
F: Polychloroprene rubber
P: Total shielding (tin-plated wire or copper wire or aluminum foil)

+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:

DA: Single cable flame retardant
SA: Bunched cable flame retardant
NA(NSA): Bunched cable flame retardant, fire resistance
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-19547.
- +Test report "China national centre for quality supervision and test of electric wire and cable" Report No.: CT16-3471-1, CT16-3473-1, CT16-3473-3, CT16-3473-4 and CT16-3473-2. Test report "Shanghai Intelligent Service and Technology Co.,Ltd. " Report No.: TN24-1615E, TN24-1617E and TN24-1616E. Filed by RINA with drawing No.SHEL-19454.
- + 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 18, 2024

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