TYPE APPROVAL CERTIFICATE
No. **ELE089519WS/001**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Description	**ELECTRIC CABLES**
Type	**CJPJ/SC, CJPJ80/SC, CJPJ90/SC, CJPJ85/SC, CJPJ95/SC CJPF/SC, CJPF/80/SC, CJPF90/SC, CJPF86/SC, CJPF96/SC CJ85/SC, CJ95/SC, CJ86/SC, CJ96/SC, 0.6/1kV**
Applicant	**JIANGSU HONEST CABLE CO., LTD WEST HEYE ROAD, JIANGYANG INDUSTRIAL PARK, YANGZHOU CITY 225008 JIANGSU CHINA**
Manufacturer	**JIANGSU HONEST CABLE CO., LTD**
Place of manufacture	**N.77, HEYE WEST ROAD, WEIYANG ECONOMIC DEVELOPMENT ZONE, YANGZHOU, JIANGSU**
Reference standards	**IEC 60092-350; IEC 60092-354; RINA Rules for the Classification of Ships; RINA Rules for Testing and Certification of Marine Materials and Equipment.**

Issued in **SHANGHAI** on **May 10, 2019.** *This Certificate is valid until* **May 9, 2024**

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Qiang Sun

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TYPE APPROVAL CERTIFICATE
No. **ELE089519WS/001**
Enclosure - Page 1 of 1
CJPJ/SC, CJPJ80/SC, CJPJ90/SC, CJPJ85/SC, CJPJ95/SC
CJPF/SC, CJPF/80/SC, CJPF90/SC, CJPF86/SC, CJPF96/SC
CJ85/SC, CJ95/SC, CJ86/SC, CJ96/SC, 0.6/1kV

1. Materials/Components

Shipboard power cables, flame retardant for bunched cable, halogen free, low smoke.

Rated voltage: 0.6/1 kV

Type: CJPJ/SC; CJPJ80/SC; CJPJ90/SC; CJPJ85/SC; CJPJ95/SC; CJPF/SC; CJPF/80/SC; CJPF90/SC; CJPF86/SC; CJPF96/SC; CJ85/SC; CJ95/SC; CJ86/SC; CJ96/SC.

Marking: manufacturer name- cable type - voltage grade - conductor size - IEC 60332-3A

Construction:

conductor: tinned starnded copper conductor

insulation: HF XLPE

inner sheath: PJ - SHF2 ; PF - SHF1

armour:

8 - tinned copper wire braid

9 - galvanized steel wire braid

outher sheath:

5 - SHF2

6 - SHF1

In accordance to IEC 60228 (class 2); IEC 60092-350; IEC 60092-360; IEC 60092-353; IEC 60332-1; IEC 60332-3 cat.A; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2.

Maximum conductor temperature: 90°C

Number of conductors: 1 - cross-sectional area 1 - 300 mm2

Number of conductors: 2 - cross-sectional area 1 - 120 mm2

Number of conductors: 3 - cross-sectional area 1 - 185 mm2

Number of conductors: 4 - cross -sectional area 1- 150 mm2

Number of conductors: 5,7,10,12,14,16,19,24,27,30,33,37 - cross sectional area 1, 1.5, 2.5 mm2.

2. Reference Documents:

+ Renewal Test Report: "China National Centre for Quality Supervision and Test of Electric Wire and Cable" Report No.:CT15-5581-2, CT15-5581-3, CT15-2421-1Y, and "Shanghai Intelligent Service and Technology Co., Ltd" Report No. TN19-01051E. See RINA Drawing No. SHEL-8464
+ Test report signed by attending Surveyor: See RINA Drawing No. SHEL-8465.
+ Structure and technical declaration : See RINA Drawing No. SHEL-8466
+ Asbestos-free Declaration: Filed by RINA with No. SHEL-8466.

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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.

4. Renewal/Revision

+ January 29, 2014: initial certification. Certificate No. ELE219013CS/001.
+ May 10, 2019: renewed without design change. New certificate No. ELE089519WS/001 revokes previous certificate.

SHANGHAI May 10, 2019

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TYPE APPROVAL CERTIFICATE
No. **ELE089519WS/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.

Description	**ELECTRIC CABLES**
Type	**CJPJ/NC, CJPJ80/NC, CJPJ90/NC, CJPJ85/NC, CJPJ95/NC CJPF/NC, CJPF80/NC, CJPF90/NC, CJPF86/NC, CJPF96/NC CJV/NA, CJV80/NA, CJV90/NA, CJV82/NA, CJV92/NA CJ85/NC, CJ95/NC, CJ86/NC, CJ96/NC, CJ82/NA, 0.6/1 kV.**
Applicant	**JIANGSU HONEST CABLE CO., LTD WEST HEYE ROAD, JIANGYANG INDUSTRIAL PARK, YANGZHOU CITY 225008 JIANGSU CHINA**
Manufacturer	**JIANGSU HONEST CABLE CO., LTD**
Place of manufacture	**N.77, HEYE WEST ROAD, WEIYANG ECONOMIC DEVELOPMENT ZONE, YANGZHOU, JIANGSU**
Reference standards	**IEC 60092-350; IEC 60092-353; IEC 60331-21; RINA Rules for the Classification of Ships; RINA Rules for Testing and Certification of Marine Materials and Equipment.**

Issued in **SHANGHAI** on **May 10, 2019**. *This Certificate is valid until* **May 9, 2024**

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TYPE APPROVAL CERTIFICATE
No. **ELE089519WS/003**
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CJPJ/NC, CJPJ80/NC, CJPJ90/NC, CJPJ85/NC, CJPJ95/NC
CJPF/NC, CJPF80/NC, CJPF90/NC, CJPF86/NC, CJPF96/NC
CJV/NA, CJV80/NA, CJV90/NA, CJV82/NA, CJV92/NA
CJ85/NC, CJ95/NC, CJ86/NC, CJ96/NC, CJ82/NA, 0.6/1 kV.

1. Materials/Components

Shipboard power cables, flame retardant for bunched cable, fire resisting, halogen free, low smoke.

Rated voltage: 0.6/1 kV

Type: CJPJ/NC; CJPJ80/NC; CJPJ90/NC; CJPJ85/NC; CJPJ95/NC; CJPF/NC; CJPF80/NC; CJPF90/NC; CJPF86/NC; CJPF96/NC; CJV/NA; CJV80/NA; CJV90/NA; CJV82/NA; CJV92/NA; CJ85/NC; CJ95/NC; CJ86/NC; CJ96/NC; CJ82/NA.

Marking: manufacturer name- cable type - voltage grade - conductor size - IEC 60331 - IEC 60332-3A

Construction:
conductor: tinned stranded copper conductor
fire barrier: mica tape on the conductor
insulation: HF-XLPE
inner sheath:
PJ - SHF2
PF - SHF1
V - ST2
armour:
8 - tinned copper wire braid
9 - galvanized steel wire braid
outher sheath:
5 - SHF2
6 - SHF1
2 - ST2
0 - no outher sheath

In accordance to IEC 60228 (class 2); IEC 60092-350; IEC 60092-360; IEC 60092-353; IEC 60332-1; IEC 60332-3 Cat.A; IEC 60331-21; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2.

Maximum conductor temperature: 90°C

Number of conductors: 1 - cross-sectional area 1 - 300 mm2
Number of conductors: 2 - cross-sectional area 1 - 120 mm2
Number of conductors: 3 - cross-sectional area 1 - 185 mm2
Number of conductors: 4 - cross -sectional area 1- 150 mm2
Number of conductors: 5,7,10,12,14,16,19,24,27,30,33,37 - cross sectional area 1, 1.5, 2.5 mm2.

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2. Reference Documents:

+ Renewal Test Report: "China National Centre for Quality Supervision and Test of Electric Wire and Cable" Report No.:CT12-3803-1. See RINA Drawing No. SHEL-8464.
+ Test report signed by attending Surveyor: See RINA Drawing No. SHEL-8465.
+ Structure and technical declaration : See RINA Drawing No. SHEL-8466.
+ Asbestos-free Declaration: Filed by RINA with No. SHEL-8466.

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.

4. Renewal/Revision

+ January 29, 2014: initial certification. Certificate No. ELE219013CS/003.
+ May 10, 2019: renewed without design change. New certificate No. ELE089519WS/003 revokes previous certificate.

SHANGHAI May 10, 2019

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TYPE APPROVAL CERTIFICATE
No. **ELE089519WS/004**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Description	**ELECTRIC CABLES**
Type	**CHJPJ85/SC, CHJPJ95/SC, CHJPF86/SC, CHJPF96/SC CHJPJP85/SC, CHJPJP95/SC, CHJPFP86/SC CHJPFP96/SC, CHJ85/SC, CHJ86/SC, CHJP85/SC CHJP86/SC, 150/250 V.**
Applicant	**JIANGSU HONEST CABLE CO., LTD WEST HEYE ROAD, JIANGYANG INDUSTRIAL PARK, YANGZHOU CITY 225008 JIANGSU CHINA**
Manufacturer	**JIANGSU HONEST CABLE CO., LTD**
Place of manufacture	**N.77, HEYE WEST ROAD, WEIYANG ECONOMIC DEVELOPMENT ZONE, YANGZHOU, JIANGSU**
Reference standards	**IEC 60092-350; IEC 60092-353; IEC 60331-21; RINA Rules for the Classification of Ships; RINA Rules for Testing and Certification of Marine Materials and Equipment.**

Issued in **SHANGHAI** on **May 10, 2019.** *This Certificate is valid until* **May 9, 2024**

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TYPE APPROVAL CERTIFICATE
No. **ELE089519WS/004**
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CHJPJ85/SC, CHJPJ95/SC, CHJPF86/SC, CHJPF96/SC
CHJPJP85/SC, CHJPJP95/SC, CHJPFP86/SC
CHJPFP96/SC, CHJ85/SC, CHJ86/SC, CHJP85/SC
CHJP86/SC, 150/250 V.

1. Materials/Components

Shipboard communication cables, flame retardant for bunched cable, halogen free, low smoke.

Rated voltage: 150/250 V

Type: CHJPJ85/SC; CHJPJ95/SC; CHJPF86/SC; CHJPF96/SC; CHJPJP85/SC; CHJPJP95/SC; CHJPFP86/SC; CHJPFP96/SC; CHJ85/SC; CHJ86/SC; CHJP85/SC; CHJP86/SC.

Marking: manufacturer name- cable type - voltage grade - conductor size - IEC 600332-3A.

Construction:
conductor: tinned stranded copper conductor
insulation: XLPE
screen: P - pair core copper shield
inner scheath:
PJ - SHF2
PF - SHF1
armour:
8 - tinned copper wire braid
9 - galvanized steel wire braid
outher sheath:
5 - SHF2
6 - SHF1

In accordance to IEC 60228 (class 2); IEC 60092-350; IEC 60092-360; IEC 60092-353; IEC 60092-376; IEC 60332-1; IEC 60332-3 cat. A; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2.

Maximum conductor temperature: 90°C
Number of cores 1 x 2 to 48 x 2 - cross-sectional area 0.75, 1, 1.5, 2.5 mm2
Number of cores 1 x 3 to 48 x 3 - cross-sectional area 1, 1.5 mm2

2. Reference Documents:

+ Renewal Test Report: "China National Centre for Quality Supervision and Test of Electric Wire and Cable" Report No.:CT15-5582-1. See RINA Drawing No. SHEL-8464.
+ Test report signed by attending Surveyor: See RINA Drawing No. SHEL-8465.
+ Structure and technical declaration : See RINA Drawing No. SHEL-8466.
+ Asbestos-free Declaration: Filed by RINA with No. SHEL-8466.

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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.

4. Renewal/Revision

+ January 29, 2014: initial certification. Certificate No. ELE219013CS/004.
+ May 10, 2019: renewed without design change. New certificate No. ELE089519WS/004 revokes previous certificate.

SHANGHAI May 10, 2019

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TYPE APPROVAL CERTIFICATE
No. **ELE089519WS/006**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Description	**ELECTRIC CABLES**
Type	**CHJPJ85/NC, CHJPJ95/NC, CHJPF86/NC, CHJPF96/NC; CHJPJP85/NC, CHJPJP95/NC, CHJPFP86/NC; CHJPFP96/NC, CHJ85/NC, CHJ86/NC, CHJP85/NC; CHJP86/NC, 150/250 V.**
Applicant	**JIANGSU HONEST CABLE CO., LTD WEST HEYE ROAD, JIANGYANG INDUSTRIAL PARK, YANGZHOU CITY 225008 JIANGSU CHINA**
Manufacturer	**JIANGSU HONEST CABLE CO., LTD**
Place of manufacture	**N.77, HEYE WEST ROAD, WEIYANG ECONOMIC DEVELOPMENT ZONE, YANGZHOU, JIANGSU.**
Reference standards	**IEC 60092-350; IEC 60092-376; IEC 60331-21; RINA Rules for the Classification of Ships; RINA Rules for Testing and Certification of Marine Materials and Equipment.**

Issued in **SHANGHAI** on **May 10, 2019**. *This Certificate is valid until* **May 9, 2024**

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TYPE APPROVAL CERTIFICATE
No. ELE089519WS/006
Enclosure - Page 1 of 1
CHJPJ85/NC, CHJPJ95/NC, CHJPF86/NC, CHJPF96/NC
CHJPJP85/NC, CHJPJP95/NC, CHJPFP86/NC
CHJPFP96/NC, CHJ85/NC, CHJ86/NC, CHJP85/NC
CHJP86/NC, 150/250 V.

1. Materials/Components

Shipboard communication cables, fire resisting, flame retardant for bunched cable, halogen free, low smoke.

Rated voltage: 150/250 V

Type: CHJPJ85/NC; CHJPJ95/NC; CHJPF86/NC; CHJPF96/NC; CHJPJP85/NC; CHJPJP95/NC; CHJPFP86/NC; CHJPFP96/NC; CHJ85/NC; CHJ86/NC; CHJP85/NC; CHJP86/NC.

Marking: manufacturer name- cable type - voltage grade - conductor size - IEC 60331 - IEC 600332-3A.

Construction:
conductor: tinned stranded copper conductor
fire barrier: mica tape on the conductor
insulation: Hf-XLPE
screen: P - pair core copper shield
inner scheath:
PJ - SHF2
PF - SHF1
armour:
8 - tinned copper wire braid
9 - galvanized steel wire braid
outher sheath:
5 - SHF2
6 - SHF1

In accordance to IEC 60228 (class 2); IEC 60092-350; IEC 60092-360; IEC 60092-376; IEC 60331-21; IEC 60332-1; IEC 60332-3 cat. A; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2.

Maximum conductor temperature: 90°C

Number of cores 1 x 2 to 48 x 2 - cross-sectional area 0.75, 1, 1.5, 2.5 mm2
Number of cores 1 x 3 to 48 x 3 - cross-sectional area 1, 1.5 mm2

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2. Reference Documents:

+ Renewal Test Report: "China National Centre for Quality Supervision and Test of Electric Wire and Cable" Report No.:CT15-2421-2, and "Shanghai Intelligent Service and Technology Co., Ltd" Report No. TN19-1050E. See RINA Drawing No. SHEL-8464.
+ Test report signed by attending Surveyor: See RINA Drawing No. SHEL-8465.
+ Structure and technical declaration : See RINA Drawing No. SHEL-8466.
+ Asbestos-free Declaration: Filed by RINA with No. SHEL-8466.

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.

4. Renewal/Revision

+ January 29, 2014: initial certification. Certificate No. ELE219013CS/006.
+ May 10, 2019: renewed without design change. New certificate No. ELE089519WS/006 revokes previous certificate.

SHANGHAI May 10, 2019

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TYPE APPROVAL CERTIFICATE
No. **ELE089519WS/008**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Description	**ELECTRIC CABLES**
Type	**CKJPJ85/SC, CKJPJ95/SC, CKJPF86/SC, CKJPF96/SC, 150/250 V.**
Applicant	**JIANGSU HONEST CABLE CO., LTD** **WEST HEYE ROAD, JIANGYANG INDUSTRIAL PARK, YANGZHOU CITY** **225008 JIANGSU** **CHINA**
Manufacturer	**JIANGSU HONEST CABLE CO., LTD**
Place of manufacture	**N.77, HEYE WEST ROAD, WEIYANG ECONOMIC DELELOPMENT ZONE, YANGZHOU, JIANGSU.**
Reference standards	**IEC 60092-350; IEC 60092-376; RINA Rules for the Classification of Ships; RINA Rules for Testing and Certification of Marine Materials and Equipment.**

Issued in **SHANGHAI** on **May 10, 2019.** *This Certificate is valid until* **May 9, 2024**

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TYPE APPROVAL CERTIFICATE
No. ELE089519WS/008
Enclosure - Page 1 of 1
CKJPJ85/SC, CKJPJ95/SC, CKJPF86/SC, CKJPF96/SC,
150/250 V.

1. Materials/Components

Shipboard control cables, flame retardant for bunched cable, halogen free, low smoke.

Rated voltage: 150/250 V
Type: CKJPJ85/SC; CKJPJ95/SC; CKJPF86/SC; CKJPF96/SC.

Marking: manufacturer name- cable type - voltage grade - conductor size - IEC 600332-3A.

Construction:
conductor: tinned stranded copper conductor
insulation: HF-XLPE
inner sheath:
PJ: SHF2
PF: SHF1
armour:
8 - tinned copper wire braid
9 - galvanized steel wire braid
outher sheath:
5 - SHF2
6 - SHF1

In accordance to IEC 60228 (class 2); IEC 60092-350; IEC 60092-360; IEC 60092-376; IEC 60332-1; IEC 60332-3 cat. A; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 601034-2.

Maximum conductor temperature: 90°C

Number of cores 2 - cross-sectional area 0.75, 1, 1.5, 2.5 mm2
Number of cores 3 (2+E) - cross-sectional area 0.75, 1, 1.5, 2.5 mm2
Number of cores 4 - 37 - cross-sectional area 0.75, 1, 1.5, 2.5 mm2

2. Reference Documents:

+ Renewal Test Report: "China National Centre for Quality Supervision and Test of Electric Wire and Cable" Report No.:CT16-4151. See RINA Drawing No. SHEL-8464.
+ Test report signed by attending Surveyor: See RINA Drawing No. SHEL-8465.
+ Structure and technical declaration : See RINA Drawing No. SHEL-8466.
+ Asbestos-free Declaration: Filed by RINA with No. SHEL-8466.

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.

4. Renewal/Revision

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+ May 10, 2019: renewed without design change. New certificate No. ELE089519WS/008 revokes previous certificate.

SHANGHAI May 10, 2019

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