Confirmation of Product Type Approval

Company Name: JIANGSU HONEST CABLE CO., LTD.

Address: HEYE XI RU, JIANGYANG INDUSTRY DISTRICTYANGZHOU, JIANGSU 225008 China

Product: Cable, Power

Model(s): CJ Series, CJPJ Series, CJPF Series,CBYR/DC

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2195185-PDA	15-DEC-2021	14-DEC-2026
Manufacturing Assessment (MA)	18-NJ3540848	12-SEP-2018	11-SEP-2023
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
Power System for Shipboard and Offshore Building.Not intended for use as propulsion cable.

Description
CJPJ/SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin outer sheathed shipboard power cable

CJPJ80 /SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin sheathed copper wire braided shipboard power cable

CJPJ90 /SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin sheathed steel wire braided shipboard power cable

CJPJ85 /SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin inner sheathed copper wire braided cross-linked polyolefin outer sheathed shipboard power cable

CJPJ95 /SC/NC - Cross-linked polyethylene insulated cross-linked polyolefin inner sheathed steel wire braided cross-linked polyolefin outer sheathed shipboard power cable

CJPF /SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin outer sheathed shipboard power cable

CJPF80/SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin sheathed copper wire braided shipboard power cable

CJPF90/SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin sheathed steel wire braided shipboard power cable

CJPF86/SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin inner sheathed copper

Copyright 2019 American Bureau of Shipping. All rights reserved.

wire braided thermoplastic polyolefin outer sheathed shipboard power cable

CJPF96/SC/NC - Cross-linked polyethylene insulated thermoplastic polyolefin inner sheathed steel wire braided thermoplastic polyolefin outer sheathed shipboard power cable

CJ85/SC/NC - Cross-linked polyethylene insulated copper wire braided cross-linked polyethylene outer sheathed shipboard power cable

CJ86/SC/NC - Cross-linked polyethylene insulated copper wire braided thermoplastic polyolefin outer sheathed shipboard power cable

CJ95/SC/NC - Cross-linked polyethylene insulated extruded inner covering steel wire braided cross-linked polyolefin outer sheathed shipboard power cable

CJ96/SC/NC - Cross-linked polyethylene insulated extruded inner covering steel wire braided thermoplastic polyolefin outer sheathed shipboard power cable

CBYR/DC - Flexible Construction Conductor Cross-Linked Polyolefin insulated halogen-free low-smoke flame retardant for single shipboard power wire.

No. of Cores / Nominal Cross Section mm2:

CJ Series, CJPJ Series, CJPF Series:

1 / 1.0,1.5,2.5,4,6,10,16,25,35,50,70,95,120,150,185,240,300

2 / 1.0,1.5,2.5,4,6,10,16,25,35,50,70,95,120

3/(2+E) / 1.0,1.5,2.5,4,6,10,16,25,35,50,70,95,120,150,185

4/(3+E) / 4,6,10,16,25,35,50,70,95,120,150

4,5,7,10,12,14,16,19,24,27,30,33,37 / 1.0,1.5,2.5

CBYR/DC:

1/0.5/0.75,1.0,1.5,2.5,4,6,10,16,25,35,50,70,95,120.

Type /SC Halogen-free Low-smoke Low-toxicity flame-retardant cable, comply with IEC60332-3, Cat.A, IEC60754, IEC61034

Type /NC - Halogen-free Low-smoke Low-toxicity fire-resistant cable, comply with IEC60332-3, Cat.A, IEC60331, IEC60754, IEC61034

Ratings
0.6/1kV, Maximum Conductor Temperature:90 deg/C

Cold Bending: -25 deg/C (IEC 60811-504:2012)

Cold Elongation: -25 deg/C (IEC 60811-505:2012)

Cold Impact: -25 deg/C (IEC 60811-506:2012)

Service Restrictions
1. Unit Certification is not required for this product. However, unit certification is required for electric propulsion cables.

2. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly

 Copyright 2019 American Bureau of Shipping. All rights reserved.

defined.

3. For propulsion cables, see 4-8-5/5.17.11 of Marine Vessel Rules.

Comments
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

2. The following cable markings are to be provided in accordance with IEC 60092-353: Indication of origin (manufacturer s name or trade mark) and rated voltage (Uo/ U) and construction (number of cores pairs triples or quads and cross sectional area of the conductor).

3. Electrical cables are to be tested by the manufacturers in accordance with the standards of compliance. Records of test are to be maintained and are to be submitted upon request by ABS.

4. All propulsion cables, other than internal wiring in control gears and switchboards, are to be subjected to dielectric and insulation tests in the presence of the Surveyor.

Notes, Drawings and Documentation
Drawing No. 4-3, CJPF86SC 3X4 test report, Revision: 0, Pages: 1

Drawing No. 4-4, CJPJ85SC test report, Revision: 0, Pages: 1

Drawing No. 4-6, CBYR test report, Revision: 0, Pages: 1

Drawing No. Correspondence, Fee Confirmation and PDA Request Form, Revision: 0, Pages: 1

Drawing No. NA, Fee Quotation, Revision: 0, Pages: 1

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 14/Dec/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules
1-1-4/7.7, 1-1-A3 and 1-1-A4, 4-8-3/9, 4-8-3/9.17 and 4-1-1/Table 3 item 20 of Marine Vessel Rules (2021)

1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-4/7.1 of Mobile Offshore Units Rules (2021)

International Standards
IEC 60092-350 (2020)

IEC 60092-353 (2016)

IEC 60092-360 (2021)

IEC60228 (2004)

IEC 60332-1 (2015)

IEC 60332-3-22 Category A (2018)

IEC 60754-1/2 (2019)

IEC 61034-1/2 (2019)

 Copyright 2019 American Bureau of Shipping. All rights reserved.

IEC 60811-504 (2012)
IEC 60811-505 (2012)
IEC 60811-506 (2012).

EU-MED Standards
NA

National Standards
NA

Government Standards
NA

Other Standards
NA

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 14-Dec-2021 8:06

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the “Intended Service” details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

Copyright 2019 American Bureau of Shipping. All rights reserved.

Confirmation of Product Type Approval

Company Name: JIANGSU HONEST CABLE CO., LTD.

Address: HEYE XI RU, JIANGYANG INDUSTRY DISTRICTYANGZHOU, JIANGSU 225008 China

Product: Cable, Communication and Control

Model(s): CHJ Series, CHJP Series, CHJPJ Series, CHJPJP Series, CHJPF Series, CHJPFP Series, CKJPJ Series, CKJPF Series

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2195204-PDA	15-DEC-2021	14-DEC-2026
Manufacturing Assessment (MA)	18-NJ3540848	12-SEP-2018	11-SEP-2023
Product Quality Assurance (PQA)	NA	NA	NA

Tier
3 - Type Approved, unit certification not required

Intended Service
Communication & Control Circuits for Shipboard and Offshore Building. Not intended for use as propulsion cable.

Description
CHJPJ85/SC/NC- XLPE insulated cross-linked polyolefin inner sheathed copper wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable

CHJPJP85/SC/NC- XLPE insulated pair core shield cross-linked polyolefin inner sheathed copper wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable

CHJPJ95/SC/NC- XLPE insulated cross-linked polyolefin inner sheathed steel wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable

CHJPJP95/SC/NC- XLPE insulated pair core shield cross-linked polyolefin inner sheathed steel wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable

CHJPF86/SC/NC- XLPE insulated thermoplastic polyolefin inner sheathed copper wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable

CHJPF96/SC/NC- XLPE insulated thermoplastic polyolefin inner sheathed steel wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable

CHJPFP86/SC/NC- XLPE insulated pair core shield thermoplastic polyolefin inner sheathed copper wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable

CHJPFP96/SC/NC- XLPE insulated pair core shield thermoplastic polyolefin inner sheathed steel wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable

Copyright 2019 American Bureau of Shipping. All rights reserved.

CHJ85/SC/NC- XLPE insulated copper wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable

CHJ86/SC/NC- XLPE insulated copper wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable

CHJP85/SC/NC- XLPE insulated pair screen copper wire braided armored cross-linked polyolefin outer sheathed shipboard symmetrical communication cable

CHJP86/SC/NC- XLPE insulated pair screen copper wire braided armored thermoplastic polyolefin outer sheathed shipboard symmetrical communication cable

CKJPJ85/SC- XLPE insulated cross-linked polyolefin inner sheathed copper wire braid armored cross-linked polyolefin outer sheathed shipboard control cable

CKJPJ95/SC- XLPE insulated cross-linked polyolefin inner sheathed steel wire braid armored cross-linked polyolefin outer sheathed shipboard control cable

CKJPF86/SC- XLPE insulated thermoplastic polyolefin inner sheathed copper wire braid armored thermoplastic polyolefin outer sheathed shipboard control cable

CKJPF96/SC- XLPE insulated thermoplastic polyolefin inner sheathed steel wire braid armored thermoplastic polyolefin outer sheathed shipboard control cable

I . Shipboard symmetrical communication cable

No. of Pairs / Nominal Cross Section mm2

1x2, 2x2, 3x2, 4x2, 5x2, 7x2, 10x2, 12x2, 14x2, 16x2, 19x2, 24x2, 27x2, 30x2, 33x2, 37x2, 44x2, 48x2 / 0.75, 1.0, 1.5, 2.5

1x3, 2x3, 3x3, 4x3, 5x3, 7x3, 10x3, 12x3, 14x3, 16x3, 19x3, 24x3, 27x3, 30x3, 33x3, 37x3, 44x3, 48x3 / 1.0, 1.5

II . Shipboard control and Instrument cable

No. of Pairs / Nominal Cross Section mm2

2, 3/(2+E), 4, 5, 7, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37 / 0.75, 1.0, 1.5, 2.5

Type /SC- Halogen-free Low-smoke Low-toxicity flame-retardant cable, comply with IEC 60754, IEC 61034, IEC 60332-3 Cat.A

Type /NC- Halogen-free Low-smoke Low-toxicity fire-resistant cable, comply with IEC 60754, IEC 61034, IEC 60332-3 Cat.A, IEC 60331.

Ratings
250V; Maximum Conductor Temperature:90 deg/C

Cold Bending: -25 deg/C (IEC 60811-504:2012)

Cold Elongation: -25 deg/C (IEC 60811-505:2012)

Cold Impact: -25 deg/C (IEC 60811-506:2012)

Service Restrictions
Unit certification is not required for these products.

If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or

 Copyright 2019 American Bureau of Shipping. All rights reserved.

standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments
1.The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

2.The following cable markings are to be provided in accordance with IEC 60092-376: Indication of origin (manufacturer s name or trade mark) and rated voltage (Uo/ U) and construction (number of cores pairs triples or quads and cross sectional area of the conductor).

3. Electrical cables are to be tested by the manufacturers in accordance with the standards of compliance. Records of test are to be maintained and are to be submitted upon request by ABS.

Notes, Drawings and Documentation
Drawing No. 4-1, CHJ86SC4X2X0.75 test report, Revision: 0, Pages: 1

Drawing No. 4-2, CHJPF86SC 2X2X0.75 test report, Revision: 0, Pages: 1

Drawing No. 4-5, CHJPF86NC test report, Revision: 0, Pages: 1

Drawing No. Correspondence, Fee Confirmation and PDA Request Form, Revision: 0, Pages: 1

Drawing No. NA, Fee Quotation, Revision: 0, Pages: 1

Term of Validity
This Product Design Assessment (PDA) Certificate remains valid until 14/Dec/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules
1-1-4/7.7, 1-1-A3 and 1-1-A4, 4-8-3/9, 4-8-3/9.17 and 4-1-1/Table 3 item 20 of Marine Vessel Rules (2021)

1-1-4/9.7, 1-1-A2 and 1-1-A3, 4-3-4/7.1 of Mobile Offshore Units Rules (2021)

International Standards
IEC60092-350 (2020)

IEC60092-376 (2017)

IEC 60754 (2019)

IEC 61034 (2019)

IEC 60332-3 Category A (2018)

IEC 60331-1/2 (2018)

IEC 60092-360 (2021)

IEC 60811-504 (2012)

IEC 60811-505 (2012)

IEC 60811-506 (2012).

 Copyright 2019 American Bureau of Shipping. All rights reserved.

EU-MED Standards
NA

National Standards
NA

Government Standards
NA

Other Standards
NA

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 14-Dec-2021 8:11

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the “Intended Service” details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

Copyright 2019 American Bureau of Shipping. All rights reserved.