



CERTIFICATE NUMBER 21-2153561-PDA
EFFECTIVE DATE 19-November-2021
EXPIRATION DATE 18-November-2026
ABS TECHNICAL OFFICE CN Shanghai ESD

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

ANHUI TIANKANG (GROUP) SHARES CO., LTD

located at

**NO. 20 SOUTH RENHE ROAD, TIANCHANG, ANHUI, TIANCHANG,
CHINA**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Cable, Medium Voltage

Model CJPF Series

This Product Design Assessment (PDA) Certificate remains valid until 3 August 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.

American Bureau of Shipping

Bin-Hong Wang, Director

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement

ANHUI TIANKANG (GROUP) SHARES CO.

NO. 20 SOUTH RENHE ROAD, TIANCHANG, ANHUI

TIANCHANG ANHUI

China

Telephone: 86-550-7308843

Fax: 86-550-7308931

Email: xmxia-0929@163.com

Web: www.tiankang.com

Tier: 3 - Type Approved, unit certification not required

Product: Cable, Medium Voltage

Model: CJPF Series

Endorsements:

Intended Service:

High voltage power system for Shipboard and Offshore Building

Not intended for use as propulsion cable.

Description:

CJPF/SC: XLPE insulated PO outer sheathed shipboard low-smoke halogen-free flame-retardant medium voltage power cable.

CJPF86/SC: XLPE insulated PO inner sheathed tinned copper wire braided armored PO outer sheathed shipboard low-smoke halogen-free flame-retardant medium voltage power cable.

CJPF96/SC: XLPE Insulated PO Inner sheathed galvanized steel wire braided armored PO outer sheathed shipboard low-smoke halogen-free flame-retardant medium voltage power cable.

For 3.6/6 kV:

Nominal Cross Section (mm²)/Number of Cores

25,35,50,70,95,120,150,185,240/1

25,35,50,70,95,120,150,185/3

For 6/10 kV:

Nominal Cross Section (mm²)/Number of Cores

25,35,50,70,95,120,150,185,240/1

25,35,50,70,95,120,150,185/3

For 8.7/15 kV:

Nominal Cross Section (mm²)/Number of Cores

25,35,50,70,95,120,150,185,240/1

25,35,50,70,95,120,150,185/3

Rating:

Rated Voltage: 3.6/6kV; 6/10kV; 8.7/15kV;

Max Conductor Temperature: 90 deg/c;

Service Restriction:

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 defined.

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. 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 60092-354: 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. 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.

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Notes/Drawing/Documentation:

Drawing No./Drawing Title/Revision No.
NA-1/Approved List of Products 2015/1
NA-2/Application material/0
Test Report No./Title/Date
CT16-3471-6/CJPF86-SC-3.6-6KV 1X35/18 Sep 2016
CT16-3471-5/CJPF96-SC-8.7-15KV 3X150/18 Sep 2016

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 18/Nov/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.

STANDARDS

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)

National:

NA

International:

IEC 60092-350 (2020)
IEC 60092-354 (2020)
IEC 60092-360 (2021)
IEC60228 (2004)
IEC 60332-1-2 (2015)
IEC 60332-3-22 Category A(2018)
IEC 60754-1/2 (2019)
IEC 61034-1/2 (2019)

Government:

NA

EUMED:

NA

OTHERS:

NA