



CERTIFICATE NUMBER 21-2153559-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, Control, Signal and Instrumentation

Model CKJ Series, CKE Series, CHJ 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

DA Certificate No.: 21-2153559-PDA
Entry Date: 19 November 2021
Expire Date: 18 November 2026
 (subject to the condition stated on the DA Certificate)
Name of Manufacturer: Anhui Tiankang (Group) Shares Co., Ltd.
Address: No.20 South Renhe Road,
City: Tianchang,
Zip: 239300
Country: P. R. China
Telephone: 0550-7308843
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Email: xmxia-0929@163.com
Contact Person: Mr. Xia, Xi-ming
Product: Cable, Control, Signal and Instrumentation
Model: CKJ Series, CKE Series, CHJ Series

Model	Description
CKJ86/SC /NC:	XLPE insulated extruded inner covering tinned copper wire braided armored PO outer sheathed shipboard control cable
CKJ96/SC /NC:	XLPE insulated extruded inner covering galvanized steel wire braided armored PO outer sheathed shipboard control cable
CKJ85/SC /NC:	XLPE insulated extruded inner covering tinned copper wire braided armored cross-linked PO outer sheathed shipboard control cable
CKJ95/SC /NC:	XLPE insulated extruded inner covering galvanized steel wire braided armored cross-linked PO outer sheathed shipboard control cable
CKJPF/SC /NC:	XLPE insulated extruded PO outer sheathed shipboard control cable
CKJPF86/SC /NC:	XLPE insulated PO inner sheathed tinned copper wire braided armored PO outer sheathed shipboard control cable
CKJPF96/SC /NC:	XLPE insulated PO inner sheathed galvanized steel wire braided armored PO outer sheathed shipboard control cable
CKJPF80/SC /NC:	XLPE insulated PO inner sheathed tinned copper wire braided armored shipboard control cable
CKJPF90/SC /NC:	XLPE insulated PO inner sheath galvanized steel wire braided armored shipboard control cable
CKJPJ/SC /NC:	XLPE insulated cross-linked PO outer sheathed shipboard control cable
CKJPJ85/SC /NC:	XLPE insulated cross-linked PO inner sheathed tinned copper wire braided armored cross-linked PO outer sheathed shipboard control cable
CKJPJ95/SC /NC:	XLPE insulated cross-linked PO inner sheathed galvanized steel wire braided armored cross-linked PO outer sheathed shipboard control cable

CKJPJ80/SC /NC:	XLPE insulated cross-linked PO inner sheathed tinned copper wire braided armored shipboard control cable
CKJPJ90/SC /NC:	XLPE insulated cross-linked PO inner sheath galvanized steel wire braided armored shipboard control cable
CKEPF/SC /NC:	EPR insulated PO sheathed shipboard control cable
CKEPF86/SC /NC:	EPR insulated PO inner sheathed tinned copper wire braided armored PO outer sheathed shipboard control cable
CKEPF96/SC /NC:	EPR insulated PO inner sheathed galvanized steel wire braided armored PO outer sheathed shipboard control cable
CKEPF80/SC /NC:	EPR insulated PO inner sheathed tinned copper wire braided armored shipboard control cable
CKEPF90/SC /NC:	EPR insulated PO inner sheathed galvanized steel wire braided armored shipboard control cable
CKEPJ/SC /NC:	EPR insulated cross-linked PO sheathed shipboard control cable
CKEPJ85/SC /NC:	EPR insulated cross-linked PO inner sheathed tinned copper wire braided armored cross-linked PO outer sheathed shipboard control cable
CKEPJ95/SC /NC:	EPR insulated cross-linked PO inner sheathed galvanized steel wire braided armored cross-linked PO outer sheathed shipboard control cable
CKEPJ80/SC /NC:	EPR insulated cross-linked PO inner sheathed tinned copper wire braided armored shipboard control cable
CKEPJ90/SC /NC:	EPR insulated cross-linked PO inner sheathed galvanized steel wire braided armored shipboard control cable
CKEF/SA/NA:	EPR insulated chloroprene rubber sheathed shipboard control cable
CHJ86/SC/NC:	XLPE insulated extruded inner covering tinned copper wire braided armored PO outer sheathed shipboard communication cable
CHJ96/SC/NC:	XLPE insulated extruded inner covering tinned copper wire braided collective screened galvanized steel wire braided armored PO outer sheathed shipboard communication cable
CHJ85/SC/NC:	XLPE insulated extruded inner covering tinned copper wire braided armored cross-linked PO outer sheathed shipboard communication cable
CHJ95/SC/NC:	XLPE insulated extruded inner covering tinned copper wire braided collective screened galvanized steel wire braided armored cross-linked PO outer sheathed shipboard communication cable
CHJPF/SC/NC:	XLPE insulated tinned copper wire braided collective screened PO outer sheathed shipboard communication cable
CHJPF86/SC/NC:	XLPE insulated PO inner sheathed tinned copper wire braided armored PO outer sheathed shipboard communication cable
CHJPF96/SC/NC:	XLPE insulated tinned copper wire braided collective screened PO inner sheathed galvanized steel wire braided armored PO outer sheathed shipboard communication cable

CHJPF80/SC/NC:	XLPE insulated PO inner sheathed tinned copper wire braided armored shipboard communication cable
CHJPF90/SC/NC:	XLPE insulated tinned copper wire braided collective screened PO inner sheathed galvanized steel wire braided armored shipboard communication cable
CHJFPF/SC/NC:	XLPE insulated tinned copper wire braid individual screened PO outer sheathed shipboard communication cable
CHJFPF86/SC/NC:	XLPE insulated tinned copper wire braid individual screened PO inner sheathed tinned copper wire braid armored PO outer sheathed shipboard communication cable
CHJFPF96/SC/NC:	XLPE insulated tinned steel wire braid individual screened PO inner sheathed galvanized steel wire braid armored PO outer sheathed shipboard communication cable
CHJFPF80/SC/NC:	XLPE insulated tinned copper wire braid individual screened PO inner sheathed tinned copper wire braid armored shipboard communication cable
CHJFPF90/SC/NC:	XLPE insulated tinned copper wire braid individual screened PO inner sheathed galvanized steel wire braid armored shipboard communication cable
CHJJP/SC/NC:	XLPE insulated tinned copper wire braided collective screened cross-linked PO outer sheathed shipboard communication cable
CHJJP85/SC/NC:	XLPE insulated tinned copper wire collective screened PO inner sheathed tinned copper wire braid armored cross-linked PO outer sheathed shipboard communication cable
CHJJP95/SC/NC:	XLPE insulated tinned copper wire braided collective screened cross-linked PO inner sheathed galvanized steel wire braid armored cross-linked PO outer sheathed shipboard communication cable
CHJJP80/SC/NC:	XLPE insulated cross-linked PO inner sheathed tinned copper wire braid armored shipboard communication cable
CHJJP90/SC/NC:	XLPE insulated tinned copper wire braided collective screened cross-linked PO inner sheathed galvanized steel wire braid armored shipboard communication cable
CHJJP/SC/NC:	XLPE insulated tinned copper wire braided individual screened cross-linked PO inner sheathed shipboard communication cable
CHJJP85/SC/NC:	XLPE insulated tinned copper wire braided individual screened cross-linked PO inner sheathed tinned copper wire braid armored cross-linked PO outer sheathed shipboard communication cable
CHJJP95/SC/NC:	XLPE insulated tinned copper wire braided individual screened cross-linked PO inner sheathed galvanized steel wire braid armored cross-linked PO outer sheathed shipboard communication cable
CHJJP80/SC/NC:	XLPE insulated tinned copper wire braided individual screened cross-linked PO inner sheathed tinned copper wire braid armored shipboard communication cable
CHJJP90/SC/NC:	XLPE insulated tinned copper wire braided individual screened cross-linked PO inner sheathed galvanized steel wire braid armored shipboard communication cable

CHJV/SA/NA:	XLPE insulated tinned copper wire braided collective screened polyvinyl chloride sheathed shipboard communication cable
CHJV82/SA/NA:	XLPE insulated polyvinyl chloride inner sheathed tinned copper wire braided armored polyvinyl chloride outer sheathed shipboard communication cable
CHJV92/SA/NA:	XLPE insulated tinned copper wire braided collective screened polyvinyl chloride inner sheathed galvanized steel wire braid armored polyvinyl chloride outer sheathed shipboard communication cable
CHJV80/SA/NA:	XLPE insulated polyvinyl chloride inner sheathed tinned copper wire braid armored shipboard communication cable
CHJV90/SA/NA:	XLPE insulated tinned copper wire braided collective screened polyvinyl chloride inner sheathed galvanized steel wire braid armored shipboard communication cable
CHJVP/SA/NA:	XLPE insulated tinned copper wire braided individual screened polyvinyl chloride outer sheathed shipboard communication cable
CHJVP82/SA/NA:	XLPE insulated tinned copper wire braided individual screened polyvinyl chloride inner sheathed tinned copper wire braided armored polyvinyl chloride outer sheathed shipboard communication cable
CHJVP92/SA/NA:	XLPE insulated tinned copper wire braided individual screened polyvinyl chloride inner sheathed galvanized steel wire braided armored polyvinyl chloride outer sheathed shipboard communication cable
CHJVP80/SA/NA:	XLPE insulated tinned copper wire braided individual screened polyvinyl chloride inner sheathed polyvinyl chloride inner sheathed tinned copper wire braided armored shipboard communication cable
CHJVP90/SA/NA:	XLPE insulated tinned copper wire braided individual screened polyvinyl chloride inner sheathed galvanized steel wire braided armored shipboard communication cable
Type SA:	Bunched cable flame retardant, comply with IEC60332-1(2004), IEC60332-3.A(2009);
Type NA:	Fire resistant cable, comply with IEC60332-1(2004), IEC60332-3.A(2009), IEC60331-1(2009), IEC60331-2(2009);
Type SC:	Halogen-free low-smoke bunched flame retardant cable, comply with IEC60332-1(2004), IEC60332-3.A(2009), IEC 60754-1/2(2001), IEC61034(2005);
Type NC:	Halogen-free low-smoke fire resistant cable, comply with IEC60332-1(2004), IEC60332-3.A(2009), IEC 60754-1/2(2001), IEC61034(2005), IEC60331-1(2009), IEC60331-2(2009);

Control Cables for CKJ and CKE Series

No. of Cores	Nominal Cross Section mm²
2,3,4,5,7,8,10,12,14,16,19,24,27,30,33,37,44,48	0.5,0.75,1,1.5,2.5

Communication Cables for CHJ Series

No. of Pairs (x2)	Nominal Cross Section mm²
1,2,3,4,5,7,10,12,14,16,19,24,30,37	0.5,0.75,1,1.5,2.5

No. of Triples (x3)	Nominal Cross Section mm²
1	0.5,0.75,1,1.5,2.5

No. of Quads (x4)	Nominal Cross Section mm²
1	0.5,0.75,1,1.5,2.5