Certificate No: LR26187676TA
Issue Date: 22/07/2026
Expiry Date: 21/07/2031

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Zhongtian Technology Industrial Wire & Cable System Co.,Ltd**
Address	No.19, Xinkai South Road, Nantong Economic and Technological, Development Zone, Nantong, 226010, China
Place of Production	Zhongtian Technology Industrial Wire & Cable System Co.,Ltd No.19, Xinkai South Road, Nantong Economic and Technological, Development Zone, Nantong, 226010, China
Type	Control and Instrumentation Cables
Description	150 / 250V Shipboard XLPE Insulated Control and Instrumentation Cables
Trade Name	CHJV, CHJVP, CHJ, CHJP, CHJPJ, CHJPJP, CHJPF, CHJPFP
Application	Fixed wiring on ship and offshore installations
Specified Standard	Manufacturer's specification IEC60092-350:2020; IEC60092-376:2025; IEC60092-360:2021; IEC 60332-1-2: 2025, IEC 60332-3-22: 2018; IEC60754-1/2: 2019; IEC61034-1/2:2019.
Ratings	**Rated Voltage**: 150/250V /DA, /SA, /NA type: CHJV82, CHJVP82, CHJ82, CHJP82 **No. of Cores:** 1,2, 3, 4, 5, 7, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37 **Conductor Cross Section**(mm^2): 0.5, 0.75, 1.0, 1.5

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CHETAN WAGH

Senior Specialist Electrical & Control to Lloyd's Register Marine and Offshore India LLP

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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/SC, /NC type: CHJPJ85, CHJPJP85, CHJ85, CHJP85, CHJPF86, CHJPFP86, CHJ86,
CHJP86;
CHJPJ95, CHJPF96, CHJPJP95, CHJPFP96,CHJPJPz85, CHJPFPz86,
CHJPJPz95, CHJPFPz96, CHJPJP+z85, CHJPFP+z86, CHJPJP+z95,CHJPFP+z96,
CHJPz85, CHJPz86, CHJP+z85, CHJP+z86, CHJPJ, CHJPF, CHJPJP, CHJPFP,
CHJPJPz, CHJPFPz, CHJPJP+z, CHJPFP+z;
No. of pairs: 1,2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 19, 24, 27, 30, 32, 33, 37
Conductor Cross Section(mm^2): 0.5, 0.75,1.0, 1.5, 2.5
No. of triples: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 19, 24, 27, 30, 32, 33, 37
Conductor Cross Section(mm^2): 0.5, 0.75, 1.0, 1.5, 2.5
Abbreviation:
-Code for cable series
CH: Shipboard Communication cable
-Code for insulation
J: Cross-linked polyethylene (XLPE)
-Code for Inner sheath
V: Polyvinyl chloride(ST2)
PF: Halogen-free thermoplastic (SHF1)
PJ: Halogen-free rubber(SHF2)
-Code for Screened
P: Individual screened
Pz: Collective screened
P+z: Individual screened and Collective screened
-Code for screen or armour
8:Copper wire braid
9:Steel wire braid
-Code for outer sheath
V: Polyvinyl chloride(ST2)
5:Halogen-free rubber(SHF2)
6:Halogen-free thermoplastic (SHF1)
-Code for flammability
/DA: Flame retardant type tested to IEC60332-1-2
/SA: Bunched flame retardant type tested to IEC 60332-1-2, IEC 60332-3-22:2018

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Type Approval Certificate

/SC: Bunched low-smoke and halogen-free and Flame retardant to IEC 60332-1/2, IEC 60332-3-22, IEC60754-1/2 and IEC 61034-1/2
/NA: Bunched flame retardant and fire resistant type to IEC 60332-1/2, IEC 60332-3-22, IEC 60331-1/2
/NC: Bunched low-smoke and halogen-free and fire resistant to IEC 60332-1/2, IEC 60332-3-22, IEC 60331-1/2, IEC60754-1/2 and IEC 61034-1/2
Conductor Max. Temp .(°C) : 90

Other Conditions

1. Type Approval does not eliminate the need (as required by LR Rules) the requirements for further review or for the product to be further inspected and/ or surveyed to be installed in ships classed or intended to be classed with LR.

2. If the specified standards are amended during the validity of this certificate, the product is to be reapproved prior to it being supplied to vessels to which the amended standards apply.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR22119150TA

The Design Appraisal Document TSO-26-055336-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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