Certificate No: LR26187868TA
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	Power Cables
Description	CJV, CJPJ, CJPF, CJ series 0.6/1KV Shipboard XLPE Insulated Power Cables
Trade Name	CJV, CJPJ, CJPF, CJ series
Application	Fixed wiring on ship and offshore installations
Specified Standard	Manufacture's specification; IEC60092-350:2020; IEC60092-353:2024; IEC60092-360:2021; IEC 60332-1-2: 2025, IEC 60332-3-22: 2018; IEC60754-1/2: 2019; IEC61034-1/2: 2019.
Ratings	**Rated Voltage**: 0.6/1 kV /DA, /SA or /NA type: CJV, CJV80, CJV82 **No. of Cores:** 1 **Conductor Cross Section**(mm^2): 1~300

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CHETAN WAGH

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

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No. of Cores: 2
Conductor Cross Section(mm²): 1~120
No. of Cores: 3
Conductor Cross Section(mm²): 1~185
No. of Cores: 4, 5, 7, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37
Conductor Cross Section(mm²): 1.0, 1.5, 2.5
/SC or /NC type: CJPJ, CJPJ80, CJPJ85, CJPF, CJPF80, CJPF86, CJ86
No. of Cores: 1
Conductor Cross Section(mm²): 1~400
No. of Cores: 2
Conductor Cross Section(mm²): 1~300
No. of Cores: 3
Conductor Cross Section(mm²): 1~300
No. of Cores: 4, 5
Conductor Cross Section(mm²): 1~300
No. of Cores: 6, 7, 8, 9, 10, 11, 12,14, 16, 19, 24, 27, 30, 32, 33, 37
Conductor Cross Section(mm²): 1.0, 1.5, 2.5, 4.0
2×25+1×16, 2×35+1×25,2×50+1×25, 2×70+1×35, 2×95+1×50, 2×120+1×70, 2×150+1×95, 2×185+1×95, 2×240+1×120,2×300+1×150
3×25+1×16, 3×35+1×25, 3×50+1×25, 3×70+1×35, 3×95+1×50, 3×120+1×70, 3×150+1×95, 3×185+1×95, 3×240+1×120,3×300+1×150
4×25+1×16, 4×35+1×25, 4×50+1×25, 4×70+1×35, 4×95+1×50, 4×120+1×70, 4×150+1×95, 4×185+1×95, 4×240+1×120,4×300+1×150
/DA, /SA or /NA type: CJV90, CJV92
No. of Cores: 2
Conductor Cross Section(mm²): 1~120
No. of Cores: 3
Conductor Cross Section(mm²): 1~185
No. of Cores: 4, 5, 7, 10, 12, 14, 16, 19, 24, 27, 30, 33, 37
Conductor Cross Section(mm²): 1.0, 1.5, 2.5
/SC or /NC type: CJPJ90, CJPJ95, CJPF90, CJPF96
No. of Cores: 2
Conductor Cross Section(mm²): 1~300
No. of Cores: 3
Conductor Cross Section(mm²): 1~300

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Type Approval Certificate

No. of Cores: 4, 5
Conductor Cross Section(mm^2): 1~300
No. of Cores: 6, 7, 8, 9, 10, 11, 12,14, 16, 19, 24, 27, 30, 32, 33, 37
Conductor Cross Section(mm^2): 1.0, 1.5, 2.5, 4.0
2×25+1×16, 2×35+1×25, 2×50+1×25, 2×70+1×35, 2×95+1×50, 2×120+1×70, 2×150+1×95, 2×185+1×95, 2×240+1×120,2×300+1×150
3×25+1×16, 3×35+1×25, 3×50+1×25, 3×70+1×35, 3×95+1×50, 3×120+1×70, 3×150+1×95, 3×185+1×95, 3×240+1×120,3×300+1×150
4×25+1×16, 4×35+1×16,4×35+1×25, 4×50+1×25, 4×70+1×35, 4×95+1×50, 4×120+1×70, 4×150+1×95, 4×185+1×95, 4×240+1×120,4×300+1×150
Note: "Conductor Cross-Section" is selected from the following series of conductor size:-
1, 1.5, 2.5, 4, 6, 10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300,400 mm^2
CJV /DA, /SA or /NA:
XLPE insulated, PVC sheathed, shipboard power cable
CJV80 /DA, /SA or /NA:
XLPE insulated, PVC sheathed, tinned copper wire braided, shipboard power cable
CJV82 /DA, /SA or /NA:
XLPE insulated, PVC inner sheathed, tinned copper wire braided, PVC outer sheathed shipboard power cable
CJV90 /DA, /SA or /NA:
XLPE insulated, PVC inner sheathed, galvanized steel wire braided, shipboard power cable
CJV92 /DA, /SA or /NA:
XLPE insulated, PVC inner sheathed, galvanized steel wire braided, PVC outer sheathed, shipboard power cable
CJPJ /SC or /NC:
XLPE insulated, XLPO sheathed shipboard power cable
CJPJ80 /SC or /NC
XLPE insulated, XLPO inner sheathed, tinned copper wire braided, shipboard power cable
CJPJ85 /SC or /NC:
XLPE insulated, XLPO inner sheathed, tinned copper wire braided, XLPO outer sheathed, shipboard power cable

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Type Approval Certificate

CJPJ90 /SC or /NC:
XLPE insulated, XLPO inner sheathed, galvanized steel wire braided, shipboard power cable
CJPJ95 /SC or /NC:
XLPE insulated, XLPO inner sheathed, galvanized steel wire braided, XLPO outer sheathed, shipboard power cable
CJPF /SC or /NC:
XLPE insulated, PO sheathed, shipboard power cable
CJPF80 /SC or /NC:
XLPE insulated, PO inner sheathed, tinned copper wire braided, shipboard power cable
CJPF86 /SC or /NC:
XLPE insulated, PO inner sheathed, tinned copper wire braided, PO outer sheathed, shipboard power cable
CJPF90 /SC or /NC:
XLPE insulated, PO inner sheathed, galvanized steel wire braided, shipboard power cable
CJPF96 /SC or /NC:
XLPE insulated, PO inner sheathed, galvanized steel wire braided, PO outer sheathed, shipboard power cable
CJ85 /SC or /NC:
XLPE insulated, tinned copper wire braided, XLPO sheathed, shipboard power cable
CJ86 /SC or /NC:
XLPE insulated, tinned copper wire braided, PO sheathed, shipboard power cable
Abbreviation:
XLPE: Cross-linked polyethylene
XLPO: Cross-linked polyolefin (SHF2)
PO: Polyolefin (SHF1)
PVC: Polyvinyl chloride (ST2)
Flammability Code:
/DA: Flame retardant type tested toIEC60332-1-2
/SA: Bunched flame retardant type tested to IEC60332-1-2, IEC60332-3-22
/ SC: Bunched flame retardant, halogen-free, low-smoke type tested to IEC60332-1-2, IEC60332-3-22, IEC60754-1/2,IEC61034-1/2

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/NA: Bunched flame retardant and fire resistant type tested to IEC60332-1-2, IEC60332-3-22, IEC 60331-21
/NC: Bunched flame-retardant and fire resistant type, halogen-free, low-smoke type tested to IEC60332-1-2,IEC60332-3-22, IEC60331-21, IEC60754-1/2, IEC61034-1/2
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: LR21270134TA-01

The Design Appraisal Document TSO-26-055336-E-02 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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