



Marine & Offshore

Certificate number: 68354/A0 BV

File number: MPA2104284

Product code: 2505I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Zhejiang Yuantong Wire & Cable Manufacturing Co., Ltd.

Hangzhou - CHINA

for the type of product

INSTRUMENTATION AND COMMUNICATION CABLES

150/250V

Types: CH & CK series.

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships, Offshore Units and Yachts.

IEC 60092-350 (2020), IEC 60092-360 (2021), IEC 60092-376 (2017)

IEC 60228 (2004)

IEC 60331-1/2 (2018)

IEC 60332-1-2 (2015), IEC 60332-3-22 (2018)

IEC 60754-1/2 (2019)

IEC 61034-2 (2019)

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 25 Oct 2026

For Bureau Veritas Marine & Offshore,

At BV SHANGHAI, on 25 Oct 2021,

Jennifer Zhang



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the Internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

1.1 - Specifications:

Rated voltage:	150/250V
Temperature class:	90°C
Flame retardant:	IEC 60332-1-2 (all types) & IEC 60332-3-22 (/SA, /NA, /SC & /NSC types)
Fire resistant:	IEC 60331-1/2 (/NA & /NSC type)
Halogen Free:	IEC 60684-2 & IEC 60754-1/2 (/DC, /SC & /NSC types)
Low Smoke:	IEC 61034-2 (/DC, /SC & /NSC types)

1.2 - Construction:

Conductor:	Tinned copper wire, class 2
Fire resistant layer:	Mica tape (/NC & /NSC types)
Insulation:	XLPE (CKJ & CHJ types) EPR (CKE & CHE types)
Inner sheath:	SHF1 (PF type) SHF2 (PJ type) ST2 (V type) SE (F type)
Screen:	Wire or twisted pair with individual shield (P type)
Armour:	Tinned copper wires braid (8 type) Galvanized steel wires braid (9 type)
Outer sheath:	SHF1 (6 type) SHF2 (5 type) ST2 (2 type) None (0 type)

1.3 - Product Range:

Type	Number of core	Cross-sect. (mm ²)
CKJV 80 82 90 92 CKJP82 85 86 CKJVP 80 82 90 92 CKJPF 80 86 90 96 CKJFPF 80 86 90 96 CKJ85 86 CKJPI 80 85 90 95 CKJPI 80 85 90 95 /DC or /SC or /NSC	2C to 37C	1 to 2.5
CKEPJ 80 85 90 95 CKEPF 80 86 90 96 /DA or /SA or /NA	2C to 37C	1 to 2.5
CHJ85 86 CHJP85 86 95 96 CHJPJ85 CHJPF86 CHJJP85 CHJFPF86 /DC or /SC or /NSC	1P to 48P	0.5 to 2.5
CHEF82 92 CHEFP82 92 /DA or /SA or /NA	1P to 48P	0.5 to 2.5

2. DOCUMENTS AND DRAWINGS :

Specification N° ZJYT01, rev. 2021Y.

Specification N° ZJYT04, rev. 2021Y.

3. TEST REPORTS :

Shanghai Intelligent Service and Technology Co., Ltd:

Test reports N° TN21-1652E, TN21-1653E and TN21-1654E, dated 10 May 2021.

4. APPLICATION / LIMITATION :

According to BV Rules for the Classification of Steel Ships, Offshore Units and Yachts.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The above products are to be supplied by **Zhejiang Yuantong Wire & Cable Manufacturing Co., Ltd.** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

5.4 - For information, **Zhejiang Yuantong Wire & Cable Manufacturing Co., Ltd.** has declared to Bureau Veritas the following production site:

**Zhejiang Yuantong Wire & Cable Manufacturing Co., Ltd.
No. 528, Xingguo Road,
Yuhang District,
Hangzhou,
Zhejiang
Hangzhou
CHINA**

6. MARKING OF PRODUCT :

The cable shall be marked on the surface outer sheath, in a durable legible and visible manner, with the following information through the length of cable:

- 1) - Voltage grade.
- 2) - Cable symbol and temperature class.
- 3) - Number of conductors and conductor size.
- 4) - Applicable standard(s) to flame retardant and fire resistance if any
- 5) - Manufacturer's name or trade mark.
- 6) - Year of manufacture.

7. OTHERS :

It is **Zhejiang Yuantong Wire & Cable Manufacturing Co., Ltd.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***