Marine & Offshore

Certificate number: 19717/D0 BV
File number: ACE 01/766/01
Product code: 2501I

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

Jiangsu Honest Cable Co.Ltd

YANGZHOU - CHINA

for the type of product

CABLES (LOW VOLTAGE)

0.6/1 kV
CJ82, CJV.. /DA/SA/NA
CJ.., CJPJ.., CJPF.. /SC/NC

Requirements:
BUREAU VERITAS Rules for the Classification of Steel Ships.
IEC 60092-350 (2020), IEC 60092-353 (2016), IEC 60092-360 (2021)
IEC 60228 (2004)
IEC 60331-21 (1999)
IEC 60332-1-2 (2015), IEC 60332-3-22 (2018)
IEC 60684-2 (2011)
IEC 60754-1/2 (2019)
IEC 61034-1/2 (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: 03 Feb 2028

For Bureau Veritas Marine & Offshore,
At BV SHANGHAI, on 03 Feb 2023,
Jennifer Zhang

This certificate was created electronically and is valid without signature

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.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Flame retardant, fire resistant (/NC or /NA Types), low smoke and halogen free (/NC or /SC Types) Marine and Offshore power cables.

1.1 - Specifications:

Rated voltage:	0.6/1 kV
Temperature class:	90°C
Flame retardant:	IEC 60332-1-2 (All Types) IEC 60332-3-22 Cat. A (/SA, /SC, /NA, /NC Types)
Fire resistant:	IEC 60331-21 (/NC or /NA Types)
Halogen Free:	IEC 60754-1/2 (/SC or /NC Types)
Low Smoke:	IEC 61034-1/2 (/SC or /NC Types)

1.2 - Construction:

Conductor:	Stranded tinned annealed copper - Class 2
Fire protection:	Mica tape (/NA or /NC Types only)
Insulation:	XLPE (Letter J)
Inner Sheath:	ST2 (CJV Type) or SHF1 (CJPF Type) or SHF2 (CJPJ Type) or None (CJ Type, Lapped inner covering)
Armour:	Copper wires braid (8 Type) or Steel wires braid (9 Type) or None
Outer Sheath:	ST2 (2 Type) or SHF1 (6 Type) or SHF2 (5 Type) or None (0 Type)

1.3 - Product Range:

Type	Number of Core	Cross-Sect. (mm^2)	Remarks
CJ85|86|95|96 **CJPJ, CJPJ**80|90|85|95 **CJPF, CJPF**80|90|86|96 **/SC** or **/NC**	1 2 3 4 to 37	1 to 120 1 to 120 1 to 120 1.0 to 2.5	Flame Retardant according to IEC 60332-1 & 60332-3-22 Cat.A Low Smoke according to IEC 61034-1/2 Halogen Free according to IEC 60754-1/2 Fire Resistant according to IEC 60331-21 (/NC Type only)
CJ82 **CJV, CJV**80|90|82|92 **/DA** or **/SA** or **/NA**	1 2 3 4 to 37	1 to 120 1 to 120 1 to 120 1.0 to 2.5	Flame retardant according to IEC 60332-1 Flame Retardant according to 60332-3-22 Cat.A (/NA or /SA Types) Fire resistant according to IEC 60331-21 (/NA Type only)

2. DOCUMENTS AND DRAWINGS:

Shipboard Power Cable Information, unreferenced Document dated Jun 2007.

3. TEST REPORTS:

CHINA NATIONAL CENTER FOR QUALITY:

Test Reports N° CT07-0892-1/2, dated 15 Jun 2007
Test Report N° CT071234-1, dated 11 Aug 2007
Test Reports N° CT07-1235-1/2, dated 13 Aug 2007

Jiangsu Honest Cable:

Test Reports N° CT07-16 to CT07-23, dated 28 Sep 2007
Test Report N° CT07-30, dated 23 Oct 2007
Test Reports N° CT12-029 & CT12-030, dated 23 Oct 2012
Test Report N° CT12-3803-1, dated 09 Apr 2012

Shanghai Intelligent Service and Technology Co., Ltd:

Test report N° TN19-01051E, dated 28 Apr 2019.
Test report N° TN21-1623E, dated 30 Apr 2021.

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.
4.2 - Approval valid for units having to comply with IMO Resolution A.1023(26) (The "MODU Code").

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **Jiangsu Honest Cable 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, **Jiangsu Honest Cable Co.Ltd** has declared to Bureau Veritas the following production site:

Jiangsu Honest Cable Co.Ltd
West Heye Road
Jiangyang Industrial Park
Yangzhou
225000 YANGZHOU
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:
- Rated voltage
- Number of cores and cross-sectional area of the conductors
- Manufacturer's name or trademark
- Code designation (optional)

7. OTHERS:

7.1 - It is J**iangsu Honest Cable 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.

7.2 - This certificate supersedes the Type Approval Certificate N° 19717/C0 BV issued on 09 Jan 2018 by the Society.

***** END OF CERTIFICATE *****