



Certificate number: 64012/B0 BV

File number: ACE 01/113/08

Product code: 2501H

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

UNIKA UNIVERSAL KABLO SANAYI VE TICARET A.S.
TEKIRDAG - Türkiye

for the type of product

CABLES (LOW VOLTAGE)

1.8/3 kV

U-HFA m EMC (U-HFA m VFD)

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

IEC 60092-350 (2020), IEC 60092-353 (2024), IEC 60092-360 (2021)

IEC 60228 (2023)

IEC 60332-1-2 (2025), IEC 60332-3-22 Cat.A (2018)

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: 27 Feb 2031

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 27 Feb 2026,

Gurcan Yilmaz

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.

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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:

Low voltage cables for Marine and Offshore applications.

1.1 - Specifications:

Rated voltage:	1.8/3 kV
Temperature class:	90°C
Flame retardant:	IEC 60332-1-2 and IEC 60332-3-22 Cat. A
Halogen Free:	IEC 60754-1/2
Low Smoke:	IEC 61034-1/2

1.2 - Construction:

Conductor:	Annealed bare or tinned stranded copper - Class 2 or Class 5
Insulation:	XLPE
Inner covering:	Halogen Free filler or tape
Screen:	Copper backed polyester tape
Armouring:	Bare or tinned copper wire braid
Outer Sheath:	SHF1

1.3 - Approval range:

Type	Number of core	Cross Sect. (mm ²)
U-HFA m EMC (U-HFA m VFD)	1	10 to 300
	2	10 to 120
	3	10 to 240
	3+3E	25 to 240 + 4 to 50

2. DOCUMENTS AND DRAWINGS:

UNIKA UNIVERSAL KABLO SANAYI VE TICARET A.S.:

Specification N° 4195418, rev. 1, dates 17 Feb 2021.

Quality Declaration , dated 08 Dec 2025

3. TEST REPORTS:

UNIKA UNIVERSAL KABLO SANAYI VE TICARET A.S.:

Tests report dated 09 Sep 2014.

Tests report dated 03 Mar 2017.

Tests report dated 17 Mar 2017.

Tests report dated 30 Mar 2017.

Tests report dated 14 Apr 2017.

Tests reports dated 21 Jan 2021.

Tests reports dated 15 Jan 2026.

4. APPLICATION / LIMITATION:

BUREAU VERITAS Rules for the Classification of Steel Ships.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **UNIKA UNIVERSAL KABLO SANAYI VE TICARET A.S.** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **UNIKA UNIVERSAL KABLO SANAYI VE TICARET A.S.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **UNIKA UNIVERSAL KABLO SANAYI VE TICARET A.S.** has declared to Bureau Veritas the following production site:

**UNIKA UNIVERSAL KABLO SANAYI VE TICARET A.S.
VELIKOY SANAYI BOLGESI
CERKEZKOY / TEKIRDAG
TEKIRDAG
TURKEY**

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 throughout the length of cable:

- Rated voltage
- Number of cores and cross-sectional area of the conductors
- Manufacturer's name or trademark
- Applicable standards to flame retardant and fire resistance (with the category if applicable)
- Code designation (optional)

7. OTHERS:

7.1 - It is **UNIKA UNIVERSAL KABLO SANAYI VE TICARET A.S.**'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 No. 64012/A0 BV issued by the Society.

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