



Marine & Offshore

Certificate number: 39478/B0 BV

File number: ACE1/113/12

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 - TURKEY

*for the type of product*

**CABLES (LOW VOLTAGE)**

U-XF m series

0.6/1kV

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.

IEC 60092-350 (2014), IEC 60092-353 (2016), IEC 60092-360 (2014)

IEC 60228 (2004)

IEC 60332-1 (2015), IEC 60332-3-22 Cat.A (2018)

IEC 60754-1/2 (2011)

IEC 61034-1/2 (2013)

*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: 02 Dec 2024**

**For Bureau Veritas Marine & Offshore,**

At BV ISTANBUL, on 02 Dec 2019,

Gurcan Yilmaz



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 electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=8v0j4dzvvc>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

The **U-XF m series** are low voltage cables for Marine and Offshore applications.

#### 1.1 - Specification:

Rated voltage:	0.6/1kV
Flame retardant:	IEC 60332-1 & IEC 60332-3-22 Cat.A
Low smoke:	IEC 61034-1/2
Halogen free:	IEC 60754-1/2
Cold resistant (impact & bending)	IEC 60092-350

#### 1.2 - Construction:

Conductor:	Bare or tinned stranded copper (Class 2 & 5)
Insulation:	Cross-linked polyolefin halogen free compound (HF90)

#### 1.3 - Approval range:

Type	Number of core	Cross-Sect. Area
U-XF m	1	1.0 to 300mm <sup>2</sup>

### 2. DOCUMENTS AND DRAWINGS :

Cables specification N°4168411, dated 14.Feb.2014.

### 3. TEST REPORTS :

#### **UNIKA:**

- Tests reports N° 14-139, dated 20.Jun.2014.
- Tests report dated 12 Nov 2019.
- Tests reports Ref. TR-39478-01 and TR-39478-02, dated 12 Nov 2019.

### 4. APPLICATION / LIMITATION :

BUREAU VERITAS Rules and Regulations 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 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 :**

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 N° 39478/A0 BV issued on 27 Oct 2014 by the Society.

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