



Marine & Offshore

Certificate number: 63691/A0 BV

File number: ACE1/126/14

Product code: 2505H

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

www.veristar.com

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**UNTEL KABLOLARI SANAYI VE TICARET A/S**  
KOCAELI - TURKEY

*for the type of product*

**INSTRUMENTATION AND COMMUNICATION CABLES**

300/500V

Type: L-M2X

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

IEC 60092-350 (2014), IEC 60092-360 (2014), IEC 60092-376 (2017)

IEC 60228 (2004)

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

IEC 60754-1/2 (2011)

IEC 61034-1/2 (2013)

EN 50288-7 (2005)

*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: 26 Jan 2026**

**For Bureau Veritas Marine & Offshore,**

At BV ISTANBUL, on 26 Jan 2021,

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.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=x3tj4bq47h>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

#### 1.1 - Common specifications:

|                    |   |
|--------------------|---|
| Rated voltage:     | 300/500V                                |
| 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:  | Stranded tinned or annealed copper (Class 2 or Class 5) |
| Insulation: | HF90  |

#### 1.3 - Product Range:

| Type  | Number of cores | Cross-Section. area (mm <sup>2</sup> ) |
|-------|-----------------|--|
| L-M2X | 1               | 0.5 to 2.5                             |

### 2. DOCUMENTS AND DRAWINGS:

Datasheet ref. 2020\_11-TS\_17, rev.0, dated 17 Dec 2020.

### 3. TEST REPORTS:

#### **UNTEL KABLOLARI SANAYI VE TICARET A/S:**

- Test report ref. P21002-R00, dated 05 Jan 2021.
- Test reports ref. T210001-R00, T210002-R00 and T210003-R00, dated 05 Jan 2021.
- Test reports ref. T210007-R00, T210008-R00 and T210009-R00, dated 05 Jan 2021.
- Test reports ref. T210004-R00, T210005-R00, dated 06 Jan 2021.
- Test report ref. P21001-R00, dated 05 Jan 2021.
- Test reports ref. T210010-R00, T210011-R00 and T210012-R00, dated 05 Jan 2021.
- Test reports ref. T210014-R00, T210015-R00 and T210016-R00, dated 05 Jan 2021.
- Test reports ref. T210013-R00, dated 06 Jan 2021.
- Test report ref. 471761, dated 27 May 2019.

### 4. APPLICATION / LIMITATION:

BUREAU VERITAS Rules for the Classification of Steel Ships, Offshore Units, Naval Ships and Yachts.

### 5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above products are to be supplied by **UNTEL KABLOLARI 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 - **UNTEL KABLOLARI 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, **UNTEL KABLOLARI SANAYI VE TICARET A/S** has declared to Bureau Veritas the following production site:

**UNTEL KABLOLARI SANAYI VE TICARET A/S**  
**DEMIRCILER KOYU**  
**MAKINE OSB**  
**6.CADDE NO.4 41455**  
**DILOVASI**  
**KOCAELI**  
**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.
- 5) - Manufacturer's name or trade mark.
- 6) - Year of manufacture.

**7. OTHERS:**

It is **UNTEL KABLOLARI 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.

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