



Marine & Offshore

Certificate number: 42628/B0 BV

File number: ACE1/126/10

Product code: 25011

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

### UNTEL KABLOLARI SANAYI VE TICARET A/S

**KOCAELI - TURKEY** 

for the type of product

# **CABLES (LOW VOLTAGE)**

Type: CHAINFLEX 0.6/1 & 1.8/3kV

#### 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 60332-1-2 (2015) IEC 60684-2 (2011) IEC 60754-1/2 (2011)

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: 18 May 2026

#### For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 18 May 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.

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# THE SCHEDULE OF APPROVAL

#### 1. PRODUCT DESCRIPTION:

The CHAINFLEX series are low voltage cables for Marine and Offshore applications.

#### 1.1 - Specifications:

Rated voltage:	0.6/1kV & 1.8/3kV
Flame retardant:	IEC 60332-1-2
Halogen free:	IEC 60684-2 & IEC 60754-1/2

#### 1.2 - Construction:

Conductor:	Flexible stranded tinned copper, Class 5
Insulation:	EPR
Inner sheath:	EPR or TMPU
Screen:	CU-Pet tape + tinned copper wire braiding.
Sheath:	SHF1 or TMPU

#### 1.3 - Approval range:

Type	Number of core	Cross-Sect. area (mm²)	Rated voltage (kV)
CHAINFLEX	3	1 to 300	0.6/1
	3	10 to 300	1.8/3

#### 2. DOCUMENTS AND DRAWINGS:

Specification ref. 2020-12-TS\_116, Rev.1, dated Jan 2021.

#### 3. TEST REPORTS:

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

- Tests report ref. 95137248, dated 27.Aug.2015.
- Tests report ref. 9123845, dated 02.Jul.2015.
- Tests report ref. 92153064, dated 21.Apr.2015
- Tests report dated 06.Oct.2015.
- Test report ref. P21003-R00, dated 19 Mar 2021.
- Test report ref. P21004-R00, dated 19 Mar 2021.
- Test report ref. P21005-R00, dated 19 Mar 2021.
- Test report ref. P21006-R00, dated 19 Mar 2021.

#### 4. APPLICATION / LIMITATION:

BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships & Offshore Units.

### **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 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, 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 and fire resistance if any
- 5) Manufacturer's name or trade mark.
- 6) Year of manufacture.

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## **7. OTHERS :**

7.1 - 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. 7.2 - This certificate supersedes the Type Approval Certificate No. 42628/A1 BV issued on 27 Jan 2016 by the Society.

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