



Marine & Offshore

Certificate number: 61130/A0 BV

File number: ACE1/126/13

Product code: 2505H

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

INSTRUMENTATION AND COMMUNICATION CABLES

Cat. 5e, 6 and 7

Type: DataMarine EC series

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships, Offshore Units, Naval Ships and Yachts.

IEC 60332-1 (2015), IEC 60332-3-24 (2018)

IEC 60684-2 (2011)

IEC 60754-1/2 (2011)

IEC 61034-1/2 (2019)

IEC 61156-5 (2012)

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: 16 Mar 2026

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 16 Mar 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=cpbqp7odf6>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Communications cables for Steel Ships, Offshore Units, Naval Ships and Yachts.

1.1 - Specifications:

Category:	5e, 6 and 7
Temperature class:	70°C
Flame Retardant:	IEC 60332-1-2, IEC 60332-3-24
Halogen Free:	IEC 60684-2, IEC 60754-1/2
Low Smoke:	IEC 61034-1/2

1.2 - Construction:

Conductor:	Bare copper, class 1 or 2
Insulation:	PE
Separator:	Al-Pet Foll
Armour:	Tinned copper wire or galvanized steel wire
Outer sheath:	SHF1

1.3 - Product Range:

Type	Category	Frequency (MHz)	Conductor class	Cross-section
DataMarine EC 200 SFTP HFFR	5e	100	class 1	24 AWG
DataMarine EC 400 SFTP HFFR	6	500		23 AWG
DataMarine EC 900 SSTP HFFR	7	500		23 AWG
DataMarine EC 600 SSTP FLEX HFFR	7	600	class 2	7x0.22mm

2. DOCUMENTS AND DRAWINGS:

UNTEL KABLOLARI SANAYI VE TICARET A/S:

Specification N° 2020-TDS-02, Rev. 1, dated Jul 2020.
 Specification N° 2020-TDS-10, Rev. 1, dated Jul 2020.
 Specification N° 2020-TDS-11, Rev. 1, dated Jul 2020.
 Specification N° 2020-TDS-12, Rev. 1, dated Jul 2020.

3. TEST REPORTS:

UNTEL KABLOLARI SANAYI VE TICARET A/S:

Test reports Ref. T210017-R00 and T210018-R00, dated 15 Feb 2021.
 Test reports Ref. T210019-R00 and T210020-R00, dated 15 Feb 2021.
 Test reports Ref. T210021-R00 and T210022-R00, dated 15 Feb 2021.
 Test reports Ref. 200901, 200902, 200903 and 200904, dated 25 Aug 2020.
 Test reports Ref. 200702, 200703, 200704, 200705, dated 13 Jul 2020.
 Test reports, dated 13 Jul 2020.
 Test reports Ref. T20022-R00, dated 25 Aug 2020.

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 sites:

UNTEL KABLOLARI SANAYI VE TICARET A/S
DEMIRCILER KOYU
MAKINE OSB
6.CADDE NO.4 41455
DILOVASI
KOCAELI
TURKEY

OREN KABLO ELEKTRİK VE ELEKTRONİK SİSTEMLERİ SAN. TIC. LTD. STİ
ORTAKOY SANAYİ BOLGESİ
SELİMPAŞA
SİLİVRİ
34617 İSTANBUL
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:

- 6.1 - Cable symbol and Temperature Class,
- 6.2 - Applicable standard to flame retardant,
- 6.3 - Number of conductors and conductor size,
- 6.4 - Manufacturer's name or trade mark
- 6.5 - 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 *****