



Marine & Offshore

Certificate number: 57066/A0 BV

File number: ACE1/126/11

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

UNTEL KABLOLARI SANAYI VE TICARET A/S
KOCAELI - TURKEY

for the type of product

CABLES (LOW VOLTAGE)

450/750V

Type: H07RN-F

Requirements:

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

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: 29 Jul 2024

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 29 Jul 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.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=df99vhjoya>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

1.1 - Specifications :

Rated voltage:	450/750V
Temperature class:	60°C
Flame retardant:	IEC 60332-1-2

1.2 - Construction :

Conductor:	Stranded plain or tinned copper wires, class 5
Insulation:	EI4
Inner sheath:	EM2 EM3 (if the outer sheath thickness is greater than 2.4mm)
Outer sheath:	EM2

1.3 - Product range :

Type	Number of cores	Cross-Section Area (mm ²)
H07RN-F	1	1.5 to 630
	2 to 5	1 to 300
	6 to 36	1.5 to 4

2. DOCUMENTS AND DRAWINGS :

Specification Ref. FR 076-012, Rev. 2, dated 07 Mar 2019.

3. TEST REPORTS :

UNTEL:

- Tests report N° P1910-R0, dated 09 Apr 2019.
- Tests report N° P1901-R0, dated 11 Apr 2019.
- Tests report N° P1918-R0, dated 08 May 2019.
- Tests report N° P1927-R0, dated 16 May 2019.

4. APPLICATION / LIMITATION :

According to BV Rules for the Classification of Steel Ships, Offshore Units and Yachts.

5. PRODUCTION SURVEY REQUIREMENTS :

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

UNTEL KABLÖLARI SANAYI VE TICARET A/S
DEMİRCİLER KOYU
MAKİNE 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:

- Voltage grade.
- Cable symbol and temperature class.
- Number of conductors and conductor size.
- Applicable standard(s) to flame retardant and Fire resistant.
- Manufacturer's name or trade mark.
- 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 *****