



**TYPE APPROVAL CERTIFICATE**  
No. **ELE052516XT/012**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>ELECTRIC CABLES</b>
<i>Type</i>	<b>FM2XCH-FFR 60/250 V</b>
<i>Applicant</i>	<b>UNTEL KABLOLARI SANAYI VE TICARET A.S.</b>
<i>Manufacturer</i>	<b>UNTEL KABLOLARI SANAYI VE TICARET A.S.</b>
<i>Place of manufacture</i>	<b>MAKINE O.S.B. 6.CADDE, NO.4 DILOVASI 41455 KOCAELI TURKEY</b>
<i>Reference standards</i>	<b>IEC 60092-350; IEC 60092-376; IEC 60331-21.</b>

Issued in **ISTANBUL** on **October 11, 2016**. This Certificate is valid until **October 10, 2021**



  
RINA Services S.p.A.  
Cinar Kutlar

This certificate consists of this page and 1 enclosure

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**FM2XCH-FFR 60/250 V**

**Materials/Components**

Shipboard power cables, flame retardant, fire resistant, halogen free with low smoke emission, for ships and off-shore units installation.

Rated voltage: 60/250 V

Type: FM2XCH-FFR

Marking: UNTEL IEC 60092-376 FM2XCH-FFR n x s mm<sup>2</sup> 0.6/1 kV IEC 60332/3A IEC 60331

**Construction:**

conductor: stranded copper wire class 2 or 5, tinned on request

mica tape on the conductor

insulation: XLPE

laid up: cores laid up in pairs

separating foil

screen: plain copper braid wires, tinned on request

separating foil

sheath: SHF1

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228 ; IEC 60092-350; IEC 60092-376; IEC 60092-360; IEC 60331-21; IEC 60332-1-2; IEC 60332-3-22; IEC 60754-1; IEC 60754-2; IEC 61034-1; IEC 61034-2.

**Conductor size:**

number of cores x pairs 1,2,4,7,10,14,19,24 - cross sectional area 0.5, 0.75, 1, 1.5 mm<sup>2</sup>

Technical specification: data sheet N.FR 70-032 Rev 1 dated 01/07/2011.

**ISTANBUL 11.10.2016**

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