



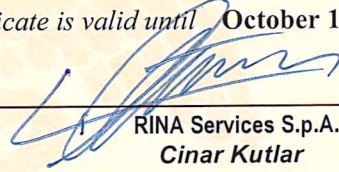
**TYPE APPROVAL CERTIFICATE**  
No. **ELE052516XT/016**

**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>FMGCH-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>DIN 89159, IEC 60092-375; 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

**TYPE APPROVAL CERTIFICATE**

No. ELE052516XT/016

Enclosure - Page 1 of 1

**FMGCH-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: FMGCH-FFR

Marking: UNTEL DIN 89159 IEC 60092-376 FMGCH-FFR n x s mm<sup>2</sup> 250 V IEC 60332/3A IEC 60331

**Construction:**

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

mica tape on the conductor

insulation: HF-EPR

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 DIN 89159; IEC 60228; IEC 60092-350; IEC 60092-360; IEC 60092-376; IEC 60331-21; IEC 60332-1-2; IEC 60332-3-22.

**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 70-052 Rev1 dated 01/07/2011.

**ISTANBUL 11.10.2016**

4