

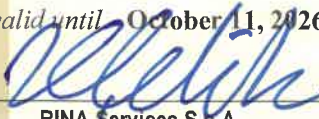


TYPE APPROVAL CERTIFICATE
No. ELE133521XT/009

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>	ELECTRIC CABLES
<i>Type</i>	MGCH-FFR 0.6/1 kV
<i>Applicant</i>	UNTEL KABLOLARI SANAYI VE TICARET A.S.
<i>Manufacturer</i>	UNTEL KABLOLARI SANAYI VE TICARET A.S.
<i>Place of manufacture</i>	MAKINE O.S.B. 6.CADDE, NO.4 DILOVASI 41455 KOCAELI TURKEY
<i>Reference standards</i>	DIN 89158, IEC 60092-350; IEC 60331-21

Issued in **ISTANBUL** on **October 11, 2021**. *This Certificate is valid until* **October 11, 2026**


RINA Services S.p.A.
Volkan Celik



This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE

No. ELE133521XT/009

Enclosure - Page 1 of 1

MGCH-FFR 0.6/1 kV

Materials/Components

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

Rated voltage: 0.6/1 kV

Type: MGCH-FFR

Marking: UNTEL DIN 89158 IEC 60092-353 MGCH-FFR n x s mm² 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: HF-EPR

bedding: halogen free compound

screen: plain copper braid wires tinned on request

sheath: SHF1

Max. conductor temperature: 90°C.

In accordance to rules DIN 89158; IEC 60228 ; IEC 60092-350; IEC 60092-353; 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 1 - cross sectional area from 1.5 to 300 mm²

number of cores 2, 3, 4 - cross sectional area from 1 to 300 mm²

number of cores 5 - cross sectional area from 1 to 240 mm²

number of cores 7 - cross sectional area from 1 to 4 mm²

number of cores 10,12,14,16, 18, 19, 20, 21, 24, 25, 27, 30, 32, 34, 36, 37 - cross sectional area from 1 to 2.5 mm²

Technical specification: data sheet N. FR 70-051 Rev1 dated 01/07/2011.



ISTANBUL 11/10/2021

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
Fax +39 010 5351000

