

Page 1 of 2

Certificate No: LR21351483TA Issue Date: 10/09/2021 Expiry Date: 09/09/2026

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer Untel Kablolari San. ve Tic. A.S.

Address 15 41455 Dilovası, Makine OSB, 6.Cd. No: 4, 23, Karakoy, Kocaeli, Kocaeli,

Turkey

Type Cables Power

Description Halogen-free, low smoke, flame retardant / fire resistant (suffix -FFR), insulated

power cables (0.6/1 kV)

Trade Name MGG, MGCG, MGH, MGH-FFR, MGCH, MGCH-FFR, MGCH-EMC, M2XH, M2XH-FFR,

M2XCH, M2XCH-FFR, M2XCH-EMC, M2X, M2XY-FR, M2XCY-FR

Application Marine and Offshore applications

Specified Standard Construction: IEC 60092-350

IEC 60092-353 IEC 60092-360

Amount of halogen acid gas: IEC 60754-1

IEC 60684-2

Halogen-free: IEC 60754-2 Smoke density: IEC 61034-1

IEC 61034-2

Flame retardance: IEC 60332-1-2

IEC 60332-3 Cat. A

Fire resistance: IEC 60331-21

Andrei Petrov

Surveyor to Lloyd's Register EMEA A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page 2 of 2

Certificate No: LR21351483TA Issue Date: 10/09/2021 Expiry Date: 09/09/2026

Type Approval Certificate

Conductor resistance: IEC 60228

LR Test Specification No.3: 2020

Conductor: Plain or tinned copper, Class 2 or 5

Fire barrier: Mica tape (for -FFR types) Insulation: XLPE, EPR, HEPR, HF90 Outer sheath: SHF1, SHF2, ST2 or SE

Ratings Refer to Appendix

Other Conditions Cables with ST2 or SE outer sheath are not allowed for installation in

passenger ships and in evacuation areas due to release of harmful fumes

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 11/00005(E1)

The Design Appraisal Document LR21351483TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.