

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 Control, Telecommunication And Instrumentation
Description	Halogen-free, low smoke, flame retardant / fire resistant (suffix -FFR), insulated control, communication & instrumentation cables
Trade Name	FMGCG, FMGCH, FMGCH-FFR, FM2XCH, FM2XCH-FFR, FM2XCCH, FM2XCCH-FFR
Application	Marine and Offshore installations
Specified Standard	Construction: IEC 60092-350 IEC 60092-376 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 Conductor resistance: IEC 60228 LR Test Specification No.3: 2020

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Conductor: Plain or tinned copper, Class 2 or 5
Fire barrier: Mica tape (for -FFR types)
Insulation: XLPE, EPR or HEPR
Outer sheath: SHF1, SHF2 or SE

Ratings Refer to Appendix

Other Conditions Cables with SE outer sheath are not allowed for the installations 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: 11/00006(E1)

The Design Appraisal Document LR21351512TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.