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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	2M KABLO SAN VE TİC. A.Ş.					
Address	Gaziosmanpaşa OSB Maha	ahallesi, 4.Cadde No:18 A, Tekirdağ, 59500, Türkiye				
Туре	Control and Instrumentation Cables					
Description	Halogen-Free, Flame Retardant, XPLE insulated, SHF1 sheathed, single and multicore cable, Screened, 180 minutes fire rated, shipboard and offshore power, communication and instrumentation cables 150/250 (300) V					
Trade Name	Marine and shipboard cables					
Application	Fixed installation cable in marine vehicles					
Specified Standard	Construction: Insulation: Outer sheath: Halogen free properties: Smoke emission: Flame retardance: Flame Propagation: Flame endurance: Fluorine content:	IEC 60092-376 XLPE to IEC 60092-360 SHF1 to IEC 60092-360 IEC 60754-1 & 2 IEC 61034-1 & 2 IEC 60332-1-1 & 2 IEC 60332-3-22 CAT A IEC 60331-1 & 2 & 21 IEC 60684-2				

Michael Hickey

Electrical & Control - Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group

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

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Ratings

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Operating Voltage (V): Temperature range (°C):		150/250 (300) -40 to + 90			
Type: FM2XACH, FM2XACH FE180, FM2XCCH, FM2XCCH FE180					
Cores per Group 2s (pairs) 3s (Triads)/4s (Quads)	No.	of Groups 1-37 1-12	Cross se	ectional area 0.5-2.5 0.5-2.5	(mm²)
Type: FM2XCH, FM2XCH FE180					
Cores per Group 1s (singles)/2s (pairs) 3s (Triads)/4s (Quads)	No.	of Groups 1-37 1-12	Cross se	ectional area 0.5-2.5 0.5-2.5	(mm²)

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: n/a

The Design Appraisal Document LR23354974TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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