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Certificate No: LR23320103TA  
Issue Date: 28/11/2023  
Expiry Date: 27/11/2028

## 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.

<b>Manufacturer</b>	<b>2M KABLO SAN VE TİC. A.Ş.</b>
<b>Address</b>	Gaziosmanpaşa OSB Mahallesi, 4.Cadde No:18 A, Tekirdağ, 59500, Türkiye
<b>Type</b>	Power Cables
<b>Description</b>	Halogen-Free, Flame Retardant, XPLE insulated, SHF1 sheathed, single and multicore cable, Screened/unscreened, 180 minutes fire rated, shipboard and offshore power and lighting cables (0.6/1 kV)
<b>Trade Name</b>	Marine and shipboard cables
<b>Application</b>	Fixed installation cable in marine vehicles
<b>Specified Standard</b>	Construction: IEC 60092-353 Insulation: XLPE to IEC 60092-360 Outer sheath: SHF1 to IEC 60092-360 Halogen free properties: IEC 60754-1 & 2 Smoke emission: IEC 61034-1 & 2 Flame retardance: IEC 60332-1-1 & 2 Flame propagation: IEC 60332-3-22 CAT A Flame propagation: IEC 60331-1 & 2 & 21 Fluorine content: IEC 60684-2

*Michael Hickey*

**Michael Hickey**

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

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## Type Approval Certificate

### Ratings

Operating Voltage (kV): 0.6/1 (1.2)  
 Temperature range (°C): -40 to +90

Type:  
 M2XCH,  
 M2XCH FE 180,  
 M2XH,  
 M2XH FE180,

No. of cores	Cross sectional area (mm2)
1s (singles)	0.5-300

2s (pairs), 3s (triads), 4s (quads)	0.5-185
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5s...37s	0.5-4
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Type:  
 M2XCH EMC / VFD

No. of cores	Cross sectional area (mm2)
1s (singles)	0.5-300

2s (pairs), 3s (triads), 4s (quads)	0.5-185
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5s...37s	0.5-4
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3 + 3	0.5-240
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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 LR23320103TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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