



## 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>Erisim Kablo San. Tic. Ltd. Sti.</b>
<b>Address</b>	,No: 1, Arnavutkoy, Mehmet Akif Ersoy Mahallesi, Veysel, Karani Caddesi, Dis Kapi No: 25, Ic Kapi, Istanbul, 34682, Türkiye
<b>Type</b>	Control and Instrumentation Cables
<b>Description</b>	150/250 V INSTRUMENTATION AND COMMUNICATION CABLES, Halogen Free, flame retardant and fire resistant screened ship cables.
<b>Trade Name</b>	Shipboard Cables
<b>Application</b>	Marine/ Offshore
<b>Specified Standard</b>	LR Test Specification Number 3, 2020 IEC 60092-350, IEC60092-360, IEC 60092-376 IEC 60331-1, IEC60331-2, IEC 60332-1, IEC 60332-2, IEC 60332-3-22, IEC 60331-21, IEC 60754-1, IEC60754-2, IEC 61034-1, IEC 61034-2, IEC 60228
<b>Ratings</b>	<b>Rated Voltage:</b> 150/250V <b>Max temperature:</b> 90° C  See Appendix for further details

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

**Richard Bridgeman**

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

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.



---

## Type Approval Certificate

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.

The Design Appraisal Document UKITSO/EI/TA/RB/WP50869732/IC 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.



**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No.**

**Appendix**

**150/250 V INSTRUMENTATION AND COMMUNICATION CABLES**

**TYPE F-MX, F-MXCH-FR, F-MX(st)- H-TP and F-MX(st)- H-TP-FR**

**Voltage rating:** 150/250V

**Maximum Temperature:** 90°C

**Construction:**

- Conductor: Annealed or tinned stranded copper wire, Class 2 or 5
- Insulation: XLPE
- Inner covering: Pes tape or HFFR compound
- Screen: Annealed or tinned copper wire braid or tinned copper drain wire with AL-Pes tape
- Outer Sheath: SHF1
- Fire Resistant: Fire resisting layer, mica tape, (Types F-MXCH-FR and F-MX(st)- H-TP-FR)

Type	Number of core	Cross-Sect. area (mm <sup>2</sup> )
F-MXCH	1P to 24P	0.5 to 2.5
F-MXCH-FR	1P to 24P	0.5 to 2.5
F-MX(st)- H-TP	1P to 24P	0.5 to 2.5
F-MX(st)- H-TP-FR	1P to 24P	0.5 to 2.5

