



**TYPE APPROVAL CERTIFICATE**  
**No. ELE046522XT/001**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>ELECTRIC CABLES</b>
<i>Type</i>	<b>MX 0.6/1 kV; MX-FR 0.6/1 kV; MXH 0.6/1 kV; MXH-FR 0.6/1 kV; MXCH 0.6/1 kV; MXCH-FR 0.6/1 kV</b>
<i>Applicant</i>	<b>ERISIM KABLO SANAYI VE TICARET LTD. STI</b>
<i>Manufacturer</i>	<b>ERISIM KABLO SANAYI VE TICARET LTD. STI</b>
<i>Place of manufacture</i>	<b>MEHMET AKIF ERSOY MAH. RESAT NURI GUNTEKIN CAD. NO.45 C ARNAVUTKOY 34275 Arnavutköy TURKEY</b>
<i>Reference standards</i>	<b>IEC 60092-350; IEC 60092-360; IEC 60092-353; IEC 60228; IEC 60331-1; IEC60331-2; IEC 60331-21; IEC 60332-1; IEC 60332-3-22 Cat. A; IEC 60754-1/2; IEC 61034-2; IEC 60684-2</b>

*Issued in* **ISTANBUL** on **May 24, 2022**. *This Certificate is valid until* **May 25, 2027**



**RINA Services S.p.A.**  
**Cinar Kutlar**

This certificate consists of this page and 1 enclosure



**ELE046522XT/001**

**Enclosure**

**MX 0.6/1 kV**

**MX-FR 0.6/1 kV**

**MXH 0.6/1 kV**

**MXH-FR 0.6/1 kV**

**MXCH 0.6/1 kV**

**MXCH-FR 0.6/1 kV**

**Materials/Components for MX cable:**

Halogen-free, Flame Retardant Shipboard and Yacht Power Cable

Rated voltage: 0.6/1 kV

Type: MX

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 0.6 /1 kV - 90° C - IEC 60092-353, IEC 60332-3-22 Cat.A

Construction:

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: Cross-linked HFFR compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-353-360, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2.

Conductor size:

Number of cores 1 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

**Materials/Components for MX-FR cable:**

Halogen-free, Flame Retardant, Fire Resistant Shipboard and Yacht Power Cable

Rated voltage: 0.6/1 kV

Type: MX-FR

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 0.6 /1 kV - 90° C - IEC 60092-353, IEC 60332-3-22 Cat.A, IEC 60331-21

Construction:

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: Mica tape + cross-linked HFFR compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-353-360, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2, IEC 60331-21.

Conductor size:

Number of cores 1 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

**Materials/Components for MXH cable:**

RINA Services S.p.A.  
Via Corsica, 12 - 16128 Genova  
Tel +39 010 53851  
Fax +39 010 5351000



Halogen-free, Flame Retardant Shipboard and Yacht Power Cable

Rated voltage: 0.6/1 kV

Type: MXH

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 0.6 /1 kV - 90° C - IEC 60092-353, IEC 60332-3-22 Cat.A

Construction:

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: XLPE compound

Inner Covering: PES Tape or HFFR Compound

Sheath: HFFR Compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-353-360, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2.

Conductor size:

Number of cores 1 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

Number of core 2 to 5 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

Number of cores 5 to 24 - cross sectional area from 1.00 mm<sup>2</sup> to 2.50 mm<sup>2</sup>

**Materials/Components for MXH-FR cable:**

Halogen-free, Flame Retardant Fire Resistant Shipboard and Yacht Power Cable

Rated voltage: 0.6/1 kV

Type: MXH-FR

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 0.6 /1 kV - 90° C - IEC 60092-353, IEC 60332-3-22 Cat.A, IEC 60331-21

Construction:

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: Mica Tape + XLPE compound

Inner Covering: PES Tape or HFFR Compound

Sheath: HFFR Compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-353-360, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2, IEC 60331-21.

Conductor size:

Number of cores 1 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

Number of core 2 to 5 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

Number of cores 5 to 24 - cross sectional area from 1.00 mm<sup>2</sup> to 2.50 mm<sup>2</sup>

**Materials/Components for MXCH cable:**

Halogen-free, Flame Retardant, Screened Shipboard and Yacht Power Cable

Rated voltage: 0.6/1 kV

Type: MXCH

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 0.6 /1 kV - 90° C - IEC 60092-353, IEC 60332-3-22 Cat.A



**Construction:**

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: XLPE compound

Inner Covering: PES Tape or HFFR Compound

Screen: Multi Wire Copper Braiding or Tinned Multi Wire Copper Braiding

Sheath: HFFR Compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-353-360, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2.

**Conductor size:**

Number of cores 1 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

Number of core 2 to 5 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

Number of cores 5 to 24 - cross sectional area from 1.00 mm<sup>2</sup> to 2.50 mm<sup>2</sup>

**Materials/Components for MXCH-FR cable:**

Halogen-free, Flame Retardant, Fire Resistant, Screened Shipboard and Yacht Power Cable

Rated voltage: 0.6/1 kV

Type: MXCH-FR

Marking: ERIŞİM KABLO- type - n x s mm<sup>2</sup> - 0.6 /1 kV - 90° C - IEC 60092-353, IEC 60332-3-22 Cat.A, IEC60331-21

**Construction:**

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: Mica Tape + XLPE compound

Inner Covering: PES Tape or HFFR Compound

Screen: Multi Wire Copper Braiding or Tinned Multi Wire Copper Braiding

Sheath: HFFR Compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-353-360, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2, IEC60331-21.

**Conductor size:**

Number of cores 1 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

Number of core 2 to 5 - cross sectional area from 1.00 mm<sup>2</sup> to 300 mm<sup>2</sup>

Number of cores 5 to 24 - cross sectional area from 1.00 mm<sup>2</sup> to 2.50 mm<sup>2</sup>

**24/05/2022**



**TYPE APPROVAL CERTIFICATE**  
No. ELE046522XT/002

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>ELECTRIC CABLES</b>
<i>Type</i>	<b>F-MXCH 150/250 V; F-MXCH-FR 150/250 V; F-MX(st)H-TP 150/250 V; F-MX(st)H-TP-FR 150/250 V</b>
<i>Applicant</i>	<b>ERISIM KABLO SANAYI VE TICARET LTD. STI</b>
<i>Manufacturer</i>	<b>ERISIM KABLO SANAYI VE TICARET LTD. STI</b>
<i>Place of manufacture</i>	<b>MEHMET AKIF ERSOY MAH. RESAT NURI GUNTEKIN CAD. NO.45 C ARNAVUTKOY 34275 Arnavutköy TURKEY</b>
<i>Reference standards</i>	<b>IEC 60092-350; IEC 60092-360; IEC 60092-376; IEC 60228; IEC 60331-21; IEC 60332-3-22 Cat. A; IEC 60684-2; IEC 60754-1; IEC 60754-2; IEC 61034-2</b>

Issued in **ISTANBUL** on **May 24, 2022**. This Certificate is valid until **May 25, 2027**



  
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This certificate consists of this page and 1 enclosure



ELE046522XT/002  
Enclosure  
F-MXCH 150/250 V  
F-MXCH-FR 150/250 V  
F-MX(st)H-TP 150/250 V  
F-MX(st)H-TP-FR 150/250 V

**Materials/Components for F-MXCH cable:**

Halogen-free, Flame Retardant, Screened Shipboard and Yacht Communication and Signal Cable

Rated voltage: 150/250 V

Type: F-MXCH

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 150 /250 V - 90° C - IEC 60092-376, IEC 60332-3-22 Cat.A

Construction:

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: XLPE compound

Inner Covering: PES Tape or HFFR Compound

Screen: Multi Wire Copper Braiding or Tinned Multi Wire Copper Braiding

Sheath: HFFR Compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-360-376, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2.

Conductor size:

Number of core 2 to 24 - cross sectional area from 0.50 mm<sup>2</sup> to 2.50 mm<sup>2</sup>

**Materials/Components for F-MXCH-FR cable:**

Halogen-free, Flame Retardant, Fire Resistant, Screened Shipboard and Yacht Communication and Signal Cable

Rated voltage: 150/250 V

Type: F-MXCH-FR

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 150 /250 V - 90° C - IEC 60092-376, IEC 60332-3-22 Cat.A, IEC 60331-21

Construction:

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: Mica tape + XLPE compound

Inner Covering: PES Tape or HFFR Compound

Screen: Multi Wire Copper Braiding or Tinned Multi Wire Copper Braiding

Sheath: HFFR Compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-360-376, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2, IEC 60331-21.



Conductor size:

Number of core 2 to 24 - cross sectional area from 0.50 mm<sup>2</sup> to 2.50 mm<sup>2</sup>

**Materials/Components for F-MX(st)H-TP cable:**

Halogen-free, Flame Retardant Shipboard and Yacht Communication and Signal Cable

Rated voltage: 150/250 V

Type: F-MX(st)H-TP

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 150 /250 V - 90° C - IEC 60092-376, IEC 60332-3-22 Cat.A

Construction:

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: XLPE compound

Stranding: Two cores are twisted as pairs

Wrapping: PES Tape (general)

Screen: Tinned Copper Drain Wire, Al+PES Tape

Sheath: HFFR Compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-360-376, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2.

Conductor size:

Number of core 1P to 24P - cross sectional area from 0.50 mm<sup>2</sup> to 2.50 mm<sup>2</sup>

**Materials/Components for F-MX(st)H-TP-FR cable:**

Halogen-free, Flame Retardant, Fire Resistant Shipboard and Yacht Communication and Signal Cable

Rated voltage: 150/250 V

Type: F-MX(st)H-TP-FR

Marking: ERİŞİM KABLO- type - n x s mm<sup>2</sup> - 150 /250 V - 90° C - IEC 60092-376, IEC 60332-3-22 Cat.A, IEC 60331-21

Construction:

Conductor: Class-2 or Class-5, Stranded Multi Wire Copper or Tinned Multi Wire Copper

Insulation: Mica Tape + XLPE compound

Stranding: Two cores are twisted as pairs

Wrapping: PES Tape (general)

Screen: Tinned Copper Drain Wire, Al+PES Tape

Sheath: HFFR Compound

Max. conductor temperature: 90°C.

In accordance to rules IEC 60228, IEC 60092-350-360-376, IEC 60332-3-22, IEC 61034-2, IEC 60754 1-2 , IEC 60684-2, IEC 60331-21.

Conductor size:

Number of core 1P to 24P - cross sectional area from 0.50 mm<sup>2</sup> to 2.50 mm<sup>2</sup>

**24/05/2022**