

Fire Resistant Cables

FMHXCH FE 120 150/250 (300) V (TEMA-TAFRS)



Design

Marine Cables

Armoured Fire Resistant Instrumentation, Communication and Control Cable

- > **Conductor**
Stranded annealed plain copper conductor 0,75 mm²
- > **Insulation**
White ceramic HF S95
- > **Pair**
Numbered white cores are twisted to pair (2 pairs is a quad)
- > **Armour (common screen)**
Braid of copper wires
- > **Sheath**
Extruded orange halogen free polyolefine, SHF 1

Standards

- > **Construction**
IEC 60092 -376
- > **Materials**
IEC 60228 Class 2 (conductor)
IEC 60092-351 (insulation)
IEC 60092-359 (sheath)
- > **Fire Resistance**
IEC 60331-21
- > **Flame Retardance**
IEC 60332-3-22 (cat A) and IEC 60332-1
- > **Halogen Free Properties**
IEC 60754-1 and -2
- > **Low Smoke Emission**
IEC 61034-1 and -2
- > **Tests**
IEC 60092-376
- > **Maximum conductor temperature +90 °C**

Size (n x 2 x mm ²)	Conductor Diameter approx. (mm)	Diameter approx. (mm)	Cable	Weight approx. (kg/km)	Bending Radius min. (mm)
1x2x0,75	1,1	8,0		95	55
2x2x0,75 (quad)	1,1	9,5		130	60
4x2x0,75	1,1	12,0		195	75
7x2x0,75	1,1	14,5		305	90
10x2x0,75	1,1	17,5		430	110
14x2x0,75	1,1	20,0		560	125
19x2x0,75	1,1	22,0		720	140
24x2x0,75	1,1	25,0		880	160

(quad) construction used in two pair cables:



Electrical data (according to IEC 60092-375)

n x 2 x mm ²	Conductor resistance at 20 °C max Ω/km	Insulation resistance min MΩ x km
n x 2 x 0,75	26,0	480

Characteristic properties (approximate values)

Variable	Value
Working capacitance	max. 120 nF/km
Loop inductance	0,7 mH/km



Mariner of the Seas
Courtesy of Aker Yards Oy