

Medium Voltage Cables

MV-FHFX/A (FE4H1OAM1) 12/20 (24) kV (TEMA-A)



Design

Marine Cables

Armoured Medium Voltage Power Cable

- > **Conductor**
Flexible copper conductor (class 5)
- > **Conductor screen**
Semiconductive tape and extruded compound
- > **Insulation**
Extruded off-white XLPE, nominal thickness 5,5 mm
- > **Insulation screen**
Extruded semiconductive compound
- > **Metallic Screen**
Copper tapes
- > **Inner Covering**
Extruded halogen free compound
- > **Armour**
Braid of copper wires
- > **Sheath**
Extruded red halogen free compound, SHF1

Standards

- > **Construction**
IEC 60092-354 and IEC 60092-350
- > **Materials**
IEC 60228 (conductor)
IEC 60092-351 (insulation)
IEC 60092-359 (sheath)
- > **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 60092-354
- > **Choice and Installation**
IEC 60092-352
- > **Maximum conductor temperature +90 °C**

Size (n x mm ²)	Conductor Diameter approx. (mm)	Core Diameter approx. (mm)	Inner Cover Thickness approx. (mm)	Braid Diameter approx. (mm)	Diameter approx. (mm)	Cable Weight approx. (kg/km)
FE4H1M1AM1						
1x150	15,6	29,3	1,2	33,4	38,0	2670
FE4H1OAM1						
3x35	7,5	21,2	1,2	51,3	58,0	4780
3x50	8,7	22,4	1,2	53,9	60,0	5450

Size (n x mm ²)	Current rating at +45 °C ambient 1) (A)	Conductor Resistance R _{DC} (Ω/km)			Inductance L (mH/km)	Capacitance C (μF/km)
		at +20 °C	at +45 °C	at +85 °C		
FE4H1M1AM1						
1x150	369	0,124	0,136	0,156	0,366	0,273
FE4H1OAM1						
3x35	104	0,524	0,575	0,658	0,395	0,169
3x50	130	0,387	0,425	0,486	0,376	0,185

1) IEC 60092-352 Table B.4 x 0,95 (see also Tables A.1 - A.8)

Other sizes available upon request



Tallink Star
Courtesy of Aker Yards Oy