

# Medium Voltage Cables

## MV-FHFX/A (FE4H1OAM1)

6/10 (12) 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 3,4 mm
- > **Insulation screen**  
Extruded semiconductive compound
- > **Metallic Screen**  
Copper tapes
- > **Inner Covering**  
Extruded halogen free compound
- > **Armour**  
Braid of galvanized steel 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 <sup>2</sup> )	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)
3x35	7,5	17,0	1,2	41,0	46,0	3460
3x50	8,7	18,5	1,2	44,5	50,0	4010
3x70	10,3	20,0	1,2	47,5	53,0	4930
3x95	12,1	21,5	1,2	51,0	57,0	6060
3x120	13,6	23,0	1,2	54,0	60,0	7050

Size (n x mm <sup>2</sup> )	Current rating at +45 °C ambient 1) (A)	Conductor Resistance R <sub>DC</sub> (Ω/km)			Inductance L (mH/km)	Capacitance C (μF/km)
		at +20 °C	at +45 °C	at +85 °C		
3x35	104	0,524	0,575	0,658	0,357	0,221
3x50	130	0,387	0,425	0,486	0,341	0,242
3x70	160	0,268	0,294	0,337	0,321	0,277
3x95	194	0,193	0,212	0,242	0,307	0,309
3x120	225	0,153	0,168	0,192	0,296	0,340

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

Other sizes available upon request



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