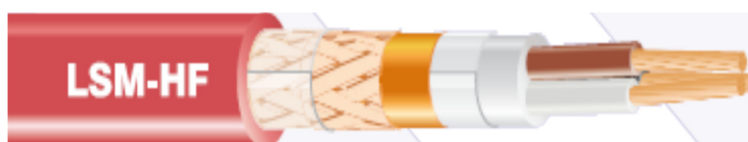


SPECIFICATION
S015901

2.6.2015 VR
1(2)

Armoured HALOGEN FREE POWER CABLE for marine applications
LSM-HF 1,8/3 kV EMC and TEMAR PHFX-A 1,8/3 kV EMC

Application

Power cable for fixed installations. Good mechanical and electrical protection. Designed to fulfill the requirements for cabling on ships.

STANDARDS
Construction

IEC 60092-353 and IEC 60092-350

Materials

IEC 60228 (conductor), IEC 60092-360 (insulation and sheath)

Flame retardance

IEC 60332-3-22 (cat A) and IEC 60332-1-2

Halogen free properties

IEC 60754-1 and -2

Low smoke emission

IEC 61034-1 and -2

Tests

IEC 60092-353

Choice and installation

IEC 60092-352

CHARACTERISTICS
Rated voltage

1,8/3 (3,6) kV

Conductor temperature

Maximum +90 °C

Ambient temperature

Minimum -15 °C (Installation)

DESIGN
Conductor

Compacted and annealed round copper conductor (class 2)
or stranded flexible round copper conductor (class 5)
-max dc-resistance at +20 °C i.a.w. IEC 60228 class 2 or 5 (see table 1-2)

Insulation

Extruded halogen free XLPE, i.a.w. IEC 60092-360
- nominal thickness i.a.w. IEC 60092-353 (see table 1-2)

Laying up

Insulated conductors are laid up together
- wrapping with suitable tape

Inner covering

Extruded halogen free polyolefine

Screen EMC

Copper laminated plastic tape
- 100% optical coverage

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Armour

Braid of plain copper wires, coverage according to IEC 60092-353

- nominal wire diameter in Table 1-2
- total area 25-40 mm²

Sheath

Extruded red halogen free polyolefine, SHF1 i.a.w. IEC 60092-360

- nominal thickness i.a.w. IEC 60092-353 (see table 1-2)

Identification**Cable Marking examples**

PRYSMIAN (FI10) LSM-HF 3x120/40 1,8/3 kV EMC TEMAR PHFX-A
+ IEC 60092-353 +meter marking +manufacturing time

Core colours

(cable without earth core)

Type	N	Live		
3X		Brown	Black	Grey

Technical data**Table 1. Multicore power cable dimensions****LSM-HF 1,8/3 kV EMC and TEMAR PHFX-A EMC class 2**

Size (n x mm ²)	Conductor		Insulation thickness nominal (mm)	Braid		Sheath thickness nominal (mm)	Cable	
	resistance max. (ohm/km)	diameter approx. (mm)		wire dia. nominal (mm)	diameter approx. (mm)		diameter approx. (mm)	weight approx. (kg/km)
3x50/25	0,387	7,9	2,0	0,3	32	1,9	37	2800
3x70/35	0,268	9,6	2,0	0,4	36	2,1	41	3800
3x95/35	0,193	11,3	2,0	0,4	39	2,3	45	4800
3x120/40	0,153	12,7	2,0	0,4	43	2,4	49	5800
3x150/40	0,124	14,1	2,0	0,4	46	2,5	52	6800

Technical data**Table 2. Multicore power cable dimensions****LSM-HF 1,8/3 kV EMC and TEMAR PHFX-A EMC class 5**

Size (n x mm ²)	Conductor		Insulation thickness nominal (mm)	Braid		Sheath thickness nominal (mm)	Cable	
	resistance max. (ohm/km)	diameter approx. (mm)		wire dia. nominal (mm)	diameter approx. (mm)		diameter approx. (mm)	weight approx. (kg/km)
3x95/35	0,206	13,5	2,0	0,4	44	2,3	50	5000
3x120/40	0,161	15,2	2,0	0,4	48	2,4	53	6100