

SPECIFICATION
S015890

2.6.2015 VR
1(3)

ARMoured HALOGEN FREE POWER AND CONTROL CABLE FOR MARINE APPLICATIONS
TEMAR PHFX-A 0,6/1 kV class 5 and LSM-HF 0,6/1 kV class 5

APPLICATION Power and control 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	0,6/1 (1,2) kV
Conductor temperature	Maximum +90 °C
Ambient temperature	Minimum -15 °C (Installation)

DESIGN

Conductor	Round stranded flexible plain copper conductor - max dc-resistance at +20 °C i.a.w. IEC 60228 class 5 (see tables 1-2)
Insulation	Extruded halogen free XLPE, i.a.w. IEC 60092-360 - nominal thickness i.a.w. IEC 60092-353 (see tables 1-2)
Laying up	In multicore cables insulated conductors are laid up together - wrapping with suitable tape
Inner covering	In multicore cables extruded halogen free inner covering
Armour	Braid of copper wires, coverage according to IEC 60092-353 - wire diameter i.a.w. IEC 60092-353 (see tables 1-3)
Sheath	Extruded black halogen free polyolefine, SHF1 i.a.w. IEC 60092-360 - nominal thickness i.a.w. IEC 60092-353 (see tables 1-2)

IDENTIFICATION

Cable Marking examples	PRYSMIAN (FI10) TEMAR PHFX-A 3x70 F 0,6/1 kV LSM-HF PRYSMIAN (FI10) TEMAR PHFX-A 1x150 F 0,6/1 kV LSM-HF + IEC60092-353 +meter marking +manufacturing time
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Core colours
(cable without earth core)

Type	N	Live		
1X			(Black)	
3X		Brown	Black	Grey
4X	Blue	Brown	Black	Grey

Core colours
(cable with earth core)

Type	PE		N	Live		
3G	G	Y	Blue	Brown		
4G	G	Y		Brown	Black	Grey
5G	G	Y	Blue	Brown	Black	Grey

TECHNICAL DATA

Table 1. Single core power cable dimensions TEMAR PHFX-A and LSM-HF class 5

Size (n x mm ²)	Conductor		Insulation thickness nominal (mm)	Braid		Sheath thickness nominal (mm)	Cable	
	resistance max. (Ω/km)	diameter approx. (mm)		wire dia. nominal (mm)	diameter approx. (mm)		diameter approx. (mm)	weight approx. (kg/km)
1x35 F	0,554	7,6	0,9	0,2	11,0	1,2	13,5	460
1x50 F	0,386	9,2	1,0	0,3	12,5	1,3	15,5	620
1x70 F	0,272	11,0	1,1	0,3	15,5	1,3	18,5	900
1x95 F	0,206	13,5	1,1	0,3	18,0	1,4	21,0	1150
1x120 F	0,161	15,0	1,2	0,3	19,0	1,5	23,0	1400
1x150 F	0,129	17,5	1,4	0,3	22,0	1,5	26,0	1750
1x185 F	0,106	18,5	1,6	0,3	23,0	1,6	27,0	2050
1x240 F	0,0801	21,0	1,7	0,3	26,0	1,7	30,0	2650
1x300 F	0,0641	24,0	1,8	0,3	30,0	1,8	35,0	3300

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Table 2. Multicore power cable dimensions TEMAR PHFX-A and LSM-HF class 5

Size (n x mm ²)	Conductor		Insulation thickness nominal (mm)	Braid		Sheath thickness nominal (mm)	Cable	
	resistance max. (Ω/km)	diameter approx. (mm)		wire dia. nominal (mm)	diameter approx. (mm)		diameter approx. (mm)	weight approx. (kg/km)
3x35 F	0,524	7,6	0,9	0,3	25,0	1,7	29,0	1800
3x50 F	0,387	9,2	1,0	0,3	29,0	1,8	34,0	2400
3x70 F	0,268	11,0	1,1	0,3	34,0	2,0	39,0	3400
3x95 F	0,193	13,5	1,1	0,4	40,0	2,1	45,0	4400
3x120 F	0,153	15,0	1,2	0,4	43,0	2,3	49,0	5400
3x150 F	0,124	17,5	1,4	0,4	49,0	2,4	55,0	6700
3x185 F	0,0991	18,5	1,6	0,4	52,0	2,6	58,0	7800
4x35 F	0,524	7,6	0,9	0,3	28,0	1,8	32,0	2200
4x50 F	0,387	9,2	1,0	0,3	32,0	1,9	37,0	3000
4x70 F	0,268	11,0	1,1	0,4	38,0	2,1	43,0	4200
4x95 F	0,193	13,5	1,1	0,4	44,0	2,3	49,0	5400
4x120 F	0,153	15,0	1,2	0,4	48,0	2,4	54,0	6800
4x150 F	0,124	17,5	1,4	0,4	54,0	2,6	60,0	8400
4x185 F	0,0991	18,5	1,6	0,4	58,0	2,8	65,0	9800
5G35 F	0,524	7,6	0,9	0,3	30,0	1,9	35,0	2700
5G50 F	0,387	9,2	1,0	0,3	36,0	2,0	41,0	3700
5G70 F	0,268	11,0	1,1	0,4	41,0	2,2	46,0	5200
5G95 F	0,193	13,5	1,1	0,4	49,0	2,4	54,0	6700

Ordering information:

Part number	Description	GTIN no.	EL nummer
20132380	TEMAR PHFX-A 1x35 F 1kV	6410006241880	10 948 60
20132381	TEMAR PHFX-A 1x50 F 1kV	6410006242047	10 948 61
20132382	TEMAR PHFX-A 1x70 F 1kV	6410006241897	10 948 62
20132383	TEMAR PHFX-A 1x95 F 1kV	6410006242054	10 948 63
20132384	TEMAR PHFX-A 1x120 F 1kV	6410006241729	10 948 64
20132385	TEMAR PHFX-A 1x150 F 1kV	6410006242061	10 948 65
20180839	TEMAR PHFX-A 1x185 F 1kV	6410006242399	10 948 66
20132386	TEMAR PHFX-A 1x240 F 1kV	6410006241736	10 948 67
20180840	TEMAR PHFX-A 1x300 F 1kV	6410006242405	10 948 68
20131955	TEMAR PHFX-A 3x35 F 1kV	6410006241743	10 948 69
20131956	TEMAR PHFX-A 3x50 F 1kV	6410006241958	10 948 70
20131957	TEMAR PHFX-A 3x70 F 1kV	6410006241767	10 948 71
20131958	TEMAR PHFX-A 3x95 F 1kV	6410006241965	10 948 72
20131959	TEMAR PHFX-A 3x120 F 1kV	6410006241774	10 948 73
20132387	TEMAR PHFX-A 3x150 F 1kV	6410006242078	10 948 74
20132388	TEMAR PHFX-A 4x35 F 1kV	6410006241781	10 948 75
20180842	TEMAR PHFX-A 4x70 F 1kV	6410006242429	10 948 76
20180843	TEMAR PHFX-A 4x95 F 1kV	6410006242436	10 948 77
20180826	TEMAR PHFX-A 4x120 F 1kV	6410006242443	10 948 78
20180827	TEMAR PHFX-A 4x150 F 1kV	6410006242450	10 948 79
20180828	TEMAR PHFX-A 4x185 F 1kV	6410006241798	10 948 80
20180844	TEMAR PHFX-A 5x35 F 1kV	6410006242467	10 948 81
20180829	TEMAR PHFX-A 5x50 F 1kV	6410006242474	10 948 82
20180830	TEMAR PHFX-A 5x70 F 1kV	6410006241804	10 948 83
20180831	TEMAR PHFX-A 5x95 F 1kV	6410006242481	10 948 84