

**SPECIFICATION**  
**S015888****2.6.2015 VR**  
**1(3)****HALOGEN FREE POWER AND CONTROL CABLE FOR MARINE APPLICATIONS****TEMAR PHFX-U 0,6/1 kV class 5 and LM-HF 0,6/1 kV class 5**

<b>APPLICATION</b>	Power and control cable for fixed installations. Designed to fulfill requirements for cabling on ships.
<b>STANDARDS</b>	
<b>Construction</b>	IEC 60092-353 and IEC 60092-350
<b>Materials</b>	IEC 60228 (conductor), IEC 60092-360 (insulation and sheath)
<b>Flame retardance</b>	IEC 60332-3-22 (cat A) and IEC 60332-1-2
<b>Halogen free properties</b>	IEC 60754-1 and -2
<b>Low smoke emission</b>	IEC 61034-1 and -2
<b>Tests</b>	IEC 60092-353
<b>Choice and installation</b>	IEC 60092-352
<b>CHARACTERISTICS</b>	
<b>Rated voltage</b>	0,6/1 (1,2) kV
<b>Conductor temperature</b>	Maximum +90 °C
<b>Ambient temperature</b>	Minimum -15 °C (Installation)
<b>DESIGN</b>	
<b>Conductor</b>	Round stranded flexible plain copper conductor - max dc-resistance at +20 °C i.a.w. IEC 60228 class 5 (see tables 1-2)
<b>Insulation</b>	Extruded halogen free XLPE, i.a.w. IEC 60092-360 - nominal thickness i.a.w. IEC 60092-353 (see tables 1-2) - possible separator tape under the insulation
<b>Laying up</b>	In multicore cables insulated conductors are laid up together - wrapping with suitable tape
<b>Inner covering</b>	In multicore cables possible extruded halogen free inner covering
<b>Sheath</b>	Extruded black halogen free polyolefine, SHF1 i.a.w. IEC 60092-360 - nominal thickness i.a.w. IEC 60092-353 (see tables 1-2)

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**Cable Marking examples** PRYSMIAN (FI10) TEMAR PHFX-U 3x70 F 0,6/1 kV LM-HF  
 PRYSMIAN (FI10) TEMAR PHFX-U 1x240 F 0,6/1 kV LM-HF  
 + IEC60092-353 +meter marking +manufacturing time

**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-U and LM-HF class 5**

Size (nxmm <sup>2</sup> )	Conductor		Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Cable	
	resistance max. (Ω/km)	diameter approx. (mm)			diameter approx. (mm)	weight approx. (kg/km)
1x25 F	0,780	6,5	0,9	1,1	11,5	300
1x35 F	0,554	7,6	0,9	1,1	12,5	400
1x50 F	0,386	9,2	1,0	1,2	14,5	550
1x70 F	0,272	11,0	1,1	1,3	16,5	760
1x95 F	0,206	13,5	1,1	1,3	19,0	980
1x120 F	0,161	15,0	1,2	1,4	21,0	1250
1x150 F	0,129	17,5	1,4	1,5	24,0	1550
1x185 F	0,106	18,5	1,6	1,5	26,0	1850
1x240 F	0,0801	21,0	1,7	1,6	29,0	2400
1x300 F	0,0641	24,0	1,8	1,7	33,0	3000

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**Table 2. Multicore power cable dimensions TEMAR PHFX-U and LM-HF class 5**

Size (nxmm <sup>2</sup> )	Conductor		Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Cable	
	resistance max. (Ω/km)	diameter approx. (mm)			diameter approx. (mm)	weight approx. (kg/km)
3x35 F	0,554	7,6	0,9	1,6	28,0	1550
3x50 F	0,386	9,2	1,0	1,7	32,0	2150
3x70 F	0,272	11,0	1,1	1,9	37,0	3000
3x95 F	0,206	13,5	1,1	2,0	42,0	3900
3x120 F	0,161	15,0	1,2	2,2	46,0	4900
3x150 F	0,129	17,5	1,4	2,3	53,0	6100
3x185 F	0,106	18,5	1,6	2,5	57,0	7300
4x35 F	0,554	7,6	0,9	1,7	31,0	2000
4x50 F	0,386	9,2	1,0	1,8	35,0	2700
4x70 F	0,272	11,0	1,1	2,0	41,0	3800
4x95 F	0,206	13,5	1,1	2,2	47,0	4900
4x120 F	0,161	15,0	1,2	2,3	52,0	6200
4x150 F	0,129	17,5	1,4	2,5	58,0	7700
4x185 F	0,106	18,5	1,6	2,7	62,0	9100
5G35 F	0,554	7,6	0,9	1,8	33,0	2400
5G50 F	0,386	9,2	1,0	2,0	39,0	3400
5G70 F	0,272	11,0	1,1	2,1	45,0	4700
5G95 F	0,206	13,5	1,1	2,3	52,0	6100

Ordering information:

Part number	Description	GTIN no.	EL nummer
20132351	TEMAR PHFX-U 1x25 F 1kV	6410006241811	10 950 20
20132352	TEMAR PHFX-U 1x35 F 1kV	6410006241972	10 950 21
20131547	TEMAR PHFX-U 1x50 F 1kV	6410006241910	10 950 22
20131548	TEMAR PHFX-U 1x70 F 1kV	6410006241828	10 950 23
20131549	TEMAR PHFX-U 1x95 F 1kV	6410006241927	10 950 24
20132353	TEMAR PHFX-U 1x120 F 1kV	6410006241835	10 950 25
20132354	TEMAR PHFX-U 1x150 F 1kV	6410006241989	10 950 26
20132355	TEMAR PHFX-U 1x185 F 1kV	6410006241842	10 950 27
20132356	TEMAR PHFX-U 1x240 F 1kV	6410006241996	10 950 28
20132357	TEMAR PHFX-U 1x300 F 1kV	6410006242009	10 950 29
20132360	TEMAR PHFX-U 3x25 F 1kV	6410006242016	10 950 30
20132361	TEMAR PHFX-U 3x35 F 1kV	6410006242023	10 950 31
20131952	TEMAR PHFX-U 3x50 F 1kV	6410006241934	10 950 32
20132362	TEMAR PHFX-U 3x70 F 1kV	6410006241859	10 950 33
20131953	TEMAR PHFX-U 3x95 F 1kV	6410006241866	10 950 34
20131954	TEMAR PHFX-U 3x120 F 1kV	6410006241941	10 950 35
20132363	TEMAR PHFX-U 3x150 F 1kV	6410006241873	10 950 36
20132364	TEMAR PHFX-U 3x185 F 1kV	6410006242030	10 950 37
20180834	TEMAR PHFX-U 4x35 F 1kV	6410006242245	10 950 38
20180835	TEMAR PHFX-U 4x50 F 1kV	6410006242269	10 950 39
20180836	TEMAR PHFX-U 4x70 F 1kV	6410006242283	10 950 40
	TEMAR PHFX-U 4x95 F 1kV		10 950 41
	TEMAR PHFX-U 4x120 F 1kV		10 950 42
20180820	TEMAR PHFX-U 4x150 F 1kV	6410006242320	10 950 43
20180821	TEMAR PHFX-U 4x185 F 1kV	6410006242344	10 950 44
20180822	TEMAR PHFX-U 5x35 F 1kV	6410006242689	10 950 45
20180838	TEMAR PHFX-U 5x50 F 1kV	6410006242368	10 950 46
20180823	TEMAR PHFX-U 5x70 F 1kV	6410006242375	10 950 47
20180824	TEMAR PHFX-U 5x95 F 1kV	6410006242382	10 950 48