
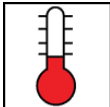
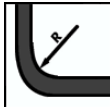
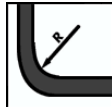



## LANmark-7 Maritime CAT.7 S/FTP 23 AWG LSFROH SHF1 Grey 500m REEL

Nexans ref.: N10m.002

- Exceeds Category 7 to 1000MHz
- For installation on board ships and sea movable constructions
- High shielding performance for harsh environments
- SHF1
- Suitable for CaTV and Cable Sharing Applications
- Optimised for use with LANmark-7 GG45 connector

				
Operating temperature, range -20 .. 70 °C	Ambient installation temperature, range -5 .. 70 °C	Min. static operating bending rad. 35.0 mm	Laying operation bending rad. 70.0 mm	Flame retardant IEC 60332 Part 3 Cat. C

## LANmark-7 Maritime CAT.7 S/FTP 23 AWG LSFROH SHF1 Grey 500m REEL

Description

### Specification

The LANmark-7 **Maritime** is a 4pr S/FTP cable with individual pair foils and an overall braid. It is fully compliant with the category 7 standards. Its bandwidth and performances have however been extended to 1000MHz. The LANmark-7 Maritime cable meets the electrical and mechanical requirements of the shipping industry. When terminated to LANmark-7 GG45 connectors it meets the Class F requirements (ISO/IEC 11801:2002). It enables to reach the full bandwidth on the link and secures the future proofing of the installation. When used with LANmark-6 Cat. 6 connectivity, optimal headroom to 250MHz Class E performance is ensured.



### Application

The LANmark-7 Maritime cable supports all current standardised applications requiring Cat.7 bandwidth. It will support low bandwidth applications as well as state of the art data applications.

- 10Base-T, 100Base-T, 1GBase-T, 10GBase-T
- Cables sharing
- CaTV (862MHz)
- Industrial Ethernet

**LANmark-7**

### Standards

**International** EN 50173; EN 50288-4-1; ISO/IEC 11801; ISO/IEC 61156-5

### Screening

STP cable consists of individually screened pairs, bundled by an overall braid. It complies to the EMC requirements for screened cables and shows excellent transfer impedance values. It is designed for electrically "noisy" environments.

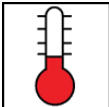
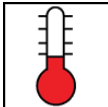
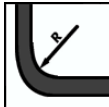
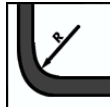

<u>Transfer impedance</u> (Grade 1)	10mOhm/m at 1 MHz
	10mOhm/m at 10 MHz
	30mOhm/m at 30 MHz
	60mOhm/m at 100 MHz

### Fire classification

- Smoke density according to IEC 61034-2
- Halogen free according to IEC 60754-1
- Fire test according to IEC 60332-3-24
- Fire load: 1000 MJ/km

### Cable sheath

- SHF1 compound according to IEC 60092-359 "Sheathing materials for shipboards power and telecommunications cables"
- Oil resistant IRM 902, 4h at 70°C, IEC 60811-2-1

				
Operating temperature, range -20 .. 70 °C	Ambient installation temperature, range -5 .. 70 °C	Min. static operating bending rad. 35.0 mm	Laying operation bending rad. 70.0 mm	Flame retardant IEC 60332 Part 3 Cat. C

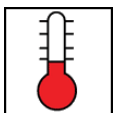
## LANmark-7 Maritime CAT.7 S/FTP 23 AWG LSFROH SHF1 Grey 500m REEL

### Related Information

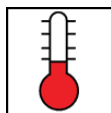
It is strongly recommended to use the LANmark-7 Maritime cable in conjunction with LANmark-6 or LANmark-7 Maritime GG45 connectors. These connectors will respectively enable to reach the full class E 250MHz or class F 600MHz on the link. Please note that Nexans has a range of patchpanels and outlets for installations on board ships.

### Contact

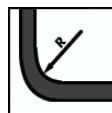
Winding Wires - Hi-Wire  
 Good Hope Close  
 WF6 1TR Normanton, West  
 Yorkshire  
 United Kingdom  
 Phone: 01924 896688  
[hiwire.sales@nexans.com](mailto:hiwire.sales@nexans.com)



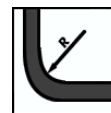
Operating temperature,  
range  
-20 .. 70 °C



Ambient installation temperature,  
range  
-5 .. 70 °C



Min. static operating bending  
rad.  
35.0 mm



Laying operation bending  
rad.  
70.0 mm



Flame retardant  
IEC 60332 Part 3 Cat. C

# LANmark-7 Maritime CAT.7 S/FTP 23 AWG LSFROH SHF1 Grey 500m REEL

Nexans ref.: N10m.002

## Characteristics

### Construction characteristics

Sheath colour	Grey
Screen	Aluminium tape and copper braid
Type of cable	STP
Outer sheath	LSZH
Drain wire	No

### Dimensional characteristics

Diameter over insulation	1.45 mm
Number of pairs	4
Nominal outer diameter	7.9 mm
Approximate weight	70 kg/km
Conductor cross-section (AWG)	23

### Electrical characteristics

Max. transfer impedance at 30 MHz	5 Ohm/km
Mutual capacitance	56 nF/km
Max. DC-resistance of the conductor at 20° C	80 Ohm/km
Characteristic impedance	100 Ohm

### Transmission characteristics

Velocity of propagation	80.0 %
Propagation delay, max. 100 MHz	536 ns/100m

### Mechanical characteristics

Maximum pulling force by laying	0.21 kN
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### Usage characteristics

Operating temperature, range	-20 .. 70 °C
Ambient installation temperature, range	-5 .. 70 °C
Minimum static operating bending radius	35.0 mm
Laying operation bending radius	70.0 mm
Length	500 m
Fire load	1000 MJ/km
Category	Cat. 7
Packaging	Reel
Flame retardant	IEC 60332 Part 3 Cat. C

## Electrical Performance

all values are specified at 20°C

Frequency	Attenuation dB/100m		NEXT dB		ACR dB/100m		PSNEXT(*) dB		ELFEXT dB/100m		PSELFEXT dB/100m		RL dB	
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ
<b>1</b>	2.0	1.9	>80	100.0	78.0	98.1	>77	100.0	>80	92.0	>77	89.0	20.0	23.0
<b>4</b>	3.6	3.5	>80	100.0	76.4	96.5	>77	100.0	>80	91.0	>77	88.0	23.0	26.0
<b>10</b>	5.7	5.5	>80	100.0	74.3	94.5	>77	100.0	74.0	91.0	71.0	88.0	25.0	28.0
<b>16</b>	7.2	7.0	>80	100.0	72.8	93.0	>77	100.0	69.9	91.0	66.9	88.0	25.0	28.0
<b>20</b>	8.1	7.8	>80	100.0	71.9	92.2	>77	100.0	68.0	91.0	65.0	88.0	25.0	28.0

## LANmark-7 Maritime CAT.7 S/FTP 23 AWG LSFROH SHF1 Grey 500m PEEI

<b>31.25</b>	10.1	9.9	>80	100.0	69.9	90.1	>77	100.0	64.1	91.0	61.1	88.0	23.6	26.6
<b>62.5</b>	14.5	14.1	75.5	100.0	61.0	85.9	72.5	98.0	58.1	79.0	55.1	76.0	21.5	24.5
<b>100</b>	18.5	18.0	72.4	95.0	53.9	77.0	69.4	93.0	54.0	71.0	51.0	68.0	20.1	23.1
<b>155</b>	23.4	22.7	69.6	90.0	46.2	67.3	66.6	88.0	50.2	63.0	47.2	60.0	18.8	23.1
<b>200</b>	26.8	26.0	67.9	86.0	41.1	60.0	64.9	84.0	48.0	60.0	45.0	57.0	18.0	23.1
<b>250</b>	30.2	29.4	66.5	83.0	36.3	53.6	63.5	81.0	46.0	57.0	43.0	54.0	17.3	23.1
<b>300</b>	33.3	32.5	65.3	80.0	32.0	47.5	62.3	78.0	44.5	55.0	41.5	52.0	17.3	22.0
<b>600</b>	48.9	47.6	60.8	69.0	11.9	21.4	57.8	67.0	38.4	45.0	35.4	42.0	17.3	20.3
<b>1000</b>	-	63.6	-	67.0	-	3.4	-	65.0	-	40.0	-	37.0	-	18.0

(\*) Dual cable versions additionally comply to the additional PSNEXT requirements for multi-unit cables as specified in the relevant TIA and IEC cable standards.