

# LanMarin® Cat 7 MUD

**S/FTP Flexible**

**UV resistant**

**SHF2**

**DNV / ABS**

## Application

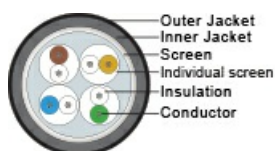
LAN cable designed and tested for ship- and offshore applications. In-door/out-door installation. Resistant to chemicals, MUD, UV radiation and harsh weather conditions. Flame retardant. An extra inner sheath provides additional fire protection. Tested for class F-link high frequencies transmission. Ethernet IEEE 802.3at-2009 Type 2 (PoE+).

This cable can be used in rough environments.



## Construction

Conductor	0.28 [mm <sup>2</sup> ] Stranded Plain Cu AWG 23/7
Insulation	Cellular PE Ø = 1,55 [mm]
No. of pairs	4
Colour code	IEC 60189-2
Individual Screen pairs	Al-/polyester tape
Screen	Tinned Cu-braid
Bedding	LSZH
Jacket	Black SHF2
O.D.	10 ± 0.2 [mm]
Weight	120 [kg/km]



## Specifications

Operating temperature normal	-40 to +90 [°C]
Characteristic impedance	100 ± 5 [Ω]
Conductor DC resistance	≤ 73.2 [Ω/km]
Insulation resistance	≥ 5000 [MΩ x km]
Power over Ethernet	IEEE 802.3at-2009 Type 2 (PoE+)
Rated voltage	≥ 80 [V]
Test voltage	1 [kV-1min.]
Capacitance	55 [pF/m]
Capacitance unbalance	1600 [pF/km]
Min. bending radius installed	100 [mm]

## Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Design and testing standards	DNV TAP 6-800 App.A;827.50-2 IEC 61156-6 IEC 60092-360
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1-2
Smoke emission	IEC 61034-1 & IEC 61034-2
MUD resistant	NEK TS 606 IEC 60092-360 Annex C & D
Certification	DNV / ABS

Part No.	DNV: 1089699
	ABS: 2030022



Frequency (MHz)	Attenuation Max.(acc.EN) (dB/100m)	NEXT (dB/100m)
1	3,02	78
4	5,61	78
10	8,78	78
16	11,12	78
20	12,44	78
31,25	15,62	78
62,5	22,32	75,46
100	28,53	72,40
155	35,96	69,55
200	41,20	67,88
300	51,28	65,24
600	75,15	60,73

## Updated

Date	Rev.	Description
24.04.2018	1	Name change from SSTP to S/FTP
16.03.2021	2	Norms and attenuation
03.10.2023	3	Power over Ethernet