



# LanMarin® Cat 7 ARM MUD

**S/FTP Flexible AWG 23/7**

**UV, SHF2, MUD-resistant**

**Galvanized steel wire braid armour**

**DNV-GL**

## Application

Robust offshore LAN cable. Outer jacket is flame retardant, low smoke, halogenfree, UV- and MUD-resistant. The product is designed for tough electrical and mechanical environments. The cable fulfils the EMC requirement. The cable is tested for high-frequency and transmission measurements for class F-link



## Construction

Conductor	0.28 [mm <sup>2</sup> ] Stranded Plain Cu AWG 23/7
Insulation	Cellular PE 1.55 [mm] EN50290-2-23
No. of pairs	4
Colour code	IEC 60189-2
Individual Screen pairs	Al-/polyester tape
Screen	Tinned Cu-braid $\geq 0,10$ [mm]
Inner jacket	Black LSZH-compound $\varnothing = 8,6$ [mm]
Armour	Galvanised steel wire braid $\geq 80\%$ [optical cover]
Outer Jacket	Black MUD- and UV-resistant material SHF2
O.D.	12 [mm]
Weight	210 [kg/km]

Jacket marking

NEK Kabel - LanMarin CAT7 S/FTP 4x2xAWG23/7 - Armour - SHF2 MUD - 60332-3-22 - DNV-GL -  
<batch no > - <DD/MM/YY> - <meter marking>



## Specifications

Operating temperature	-40 – +80 [°C]
Characteristic impedance	100 $\pm$ 5 $\Omega$
Conductor resistance	< 69,5 [ $\Omega$ /km]
Insulation resistance	$\geq 5000$ [M $\Omega$ x km]
Test voltage	1 [kV-DC 1 min.]
Capacitance	55 [pF/m]
Velocity factor	0,78
Min. bending radius	10 [x outer diam]
Min. bending radius flexible	20 [x outer diam]

## Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, 2
Cold bend and impact	CSA 22/2
Flame retardant	IEC 60332-1
Toxic gases max.	EN 50305 9.2
Fire retardant	IEC 60332-3-22
Weather resistant	IEC 60502 ASTM G 154 – ASTM D 4587 – EN ISO 1157
Ozone resistant	DIN VDE 0472 part 805B
Oil and fuel, hydrocarbons resistant	IEC 60811
Smoke emission	IEC 61034-1, -2 (≥ 70%)
MUD resistant	NEK TS 606
UV-resistant	ASTM D 2565 92A
Certification	DNV-GL
Part No.	1089617

### RoHS ✓

Frequency (MHz)	Attenuation Max. (dB/100m)	NEXT (dB)	Return loss (dB/100m)
1	2,2	100	35
4	3,8	100	31
10	5,9	95	38
16	7,4	90	32
20	8,4	90	32
31,25	10,5	90	31
62,5	15,3	85	27
100	18,1	82	34
155	23,2	80	28
200	26,6	77	25
300	33,3	71	23
600	50,1	67	21

## Updated

Date	Rev.	Description
Sept. 2016	1	Correction dimensions
13.02.2020	2	Construction
02.03.2020	3	Bending radius