

## LanMarin® Cat 6 F/UTP Solid

**F/UTP, entrådet leder**

**SHF1 UV beskyttet**

**AWG 23/1**

**DNV**

### Bruksområde

LAN-kabel for skip- og offshoresinstallasjoner. Felles skjerm over 2 par. Testet i henhold til IEC 61156 - 5 for dataoverføring opp til 250 MHz. Ethernet IEEE 802.3at-2009 Type 2 (PoE+). Kabelen er en type "Toughcat" og tåler røff behandling.



## Konstruksjon

Leder	Entrådet Blank Cu 0.573 [mm] AWG 23/1
Dielektrikum	HDPE Ø = 1.12 [mm]
Fargekode	IEC
Tape	Mylar tape
Separator	PE-senterkryss
Jordleder	Tinned Cu-wire
Skjerm	AL/Mylar ≥100% coverage
Kappe	Grå SHF1
Ytre diameter	7.8 ± 0,4 [mm]
Vekt	60 [kg/km]
Kappemerking	NEK Kabel - LanMarin Cat 6 F/UTP 4 x 2 x AWG23/1 - SHF1 - IEC 60332-3-22 ****m - DD/MM/YY

## Tekniske data

Driftstemperatur normalt	-40 - +80
Temperatur v/installasjon	-10 - +60 [°C]
Dielektrisk styrke	DC1kV i 1min.
Karakteristisk impedans	100 ± 15 Ω v/ 1 - 250MHz
Ledermotstand	≤ 95 [Ω/km]
Motstand ubalanse maks.	≤ 5 [%]
Isolasjonsmotstand	≥ 5000 [Ω x km]
Power over Ethernet	IEEE 802.3at-2009 Type 2 (PoE+)
Rated voltage	≥ 80 [V]
Kapasitans ubalanse	160 [pF/100m]
Hastighetsfaktor	60 [%]
Mutual capacitance	60 [nF/km]
Delay skew	≤ 45ns/100m [v/ 1 - 250MHz]
Min. bøyeradius	10 [x ytre diam]

## Normer

Halogenfri, max korrosive og giftige gasser	IEC 60754-1 & IEC 60754- 2
Materialegenskaper, isolasjon og kappe	IEC 60092-360 (359)
Flammehemmet buntet kabel	IEC 60332-3-22 Cat.A
Flammehemmet enkeltkabel	IEC 60332-1-2
Røykutvikling	IEC 61034-2 ( ≥60% )
Olje- og drivstoffbestandig	IEC 60811 IRM 902 23°C / 7 dager, 70°C / 4h
UV-bestendig	UL 1581 (300H)
CPR klasse	Dca-s2,d2,a1
Euroclass	Dca
Sertifisering	DNV
El-nummer	1089623

## Dempning

Frekv. [MHz]	Demp. std [dB]	Demp.typ [dB]	RL std [dB]	RLtyp [dB]	NEXTst [dB]	NEXTtyp [dB]	PSNEXTstd [dB]	PSNEXT typ [dB]	ELFEXT std [dB]	ELFEXT typ [dB]
4	3,83	3,70	23,0	25,0	66,3	85,0	63,3	82,0	56,0	93,0
8	5,37	5,10	24,5	26,0	61,8	80,0	58,8	77,0	49,9	87,0
10	6,00	5,70	25,0	28,0	60,3	78,0	57,3	75,0	48,0	83,0
16	7,61	7,40	25,0	28,0	57,2	75,0	54,2	72,0	43,9	83,0
20	8,53	8,10	25,0	28,0	55,8	72,0	52,8	69,0	42,0	83,0
25	9,57	9,30	24,3	27,2	54,3	70,0	51,3	67,0	40,0	78,0
31,25	10,75	10,00	23,6	27,0	52,9	69,0	49,9	66,0	38,1	73,0
62,5	15,48	14,93	21,5	25,0	48,4	65,0	45,4	62,0	32,1	70,0
100	19,92	19,00	20,1	24,0	45,3	63,0	42,3	60,0	28,0	66,0
150	25,30	23,60	18,8	22,0	42,4	60,0	39,4	57,0	24,2	63,0
200	29,14	27,70	18,0	21,0	40,8	58,0	37,8	55,0	22,0	61,0
250	33,02	31,40	17,3	20,0	39,3	55,0	36,3	52,0	20,0	58,0

## Versjon

Dato	Rev.	Beskrivelse
April 2019	1	DNV-GL Approval