

# LanMarin® Cat 7A Flex

**S/FTP**  
**AWG 23/7**  
**UV, SHF1**  
**DNV**

## Bruksområde

Individuell og kollektiv skjermet LAN-kabel for skip og offshore, røykfattig, halogenfri og UV-bestendig SHF1-jakke. Dette produktet er egnet for bruk i EMC-installasjoner. Kabelen er testet for høyfrekvens og overføring målinger for klasse F-link. Også tilgjengelig med solide ledere. IEEE 802.3at-2009 Type 2 (PoE +). Denne kabelen kan brukes i tøffe miljøer.



## Konstruksjon

Leder	0.26 [mm <sup>2</sup> ] Flertrådet fortinnet Cu AWG 23/7
Isolasjon	Skummet glatt PE Ø=1.55 ± 0.05 [mm]
Parantall	4
Fargekode	IEC
Skjerm over par	Al/PET
Skjerm	Flettet fortinnet Cu-tråd ≥ 60 [% dekning]
Kappe	Sort SHF1 UV-bestendig
Ytre diameter	8.5 ± 0.3 [mm]
Vekt	105 [kg/km]
Kappemerking	NEK Kabel LanMarin® CAT7A S/FTP 4 x 2 x AWG23/7 – SHF1 – IEC60332-3-22 – DNV – Batch no – DD/MM/YY – ****m

## Tekniske data

Driftstemperatur normalt	-40 – +80 [°C]
Temperatur v/installasjon	-20 – +60 [°C]
Dielektrisk styrke	DC1kV i 1min.
Karakteristisk impedans	100 ± 15 [Ω @ 100 MHz]
Ledermotstand	≤ 73.2 [Ω/km]
Motstand ubalanse maks.	≤ 5 [%]
Isolasjonsmotstand	≥ 5000 [MΩ x km]
Power over Ethernet	IEEE 802.3at-2009 Type 2 (PoE+)
Rated voltage	≥ 80 [V]
Testspenning	1 [kV-1min.]
Kapasitans ubalanse	≤ 160 [pF/100m] @ 1kHz (IEC 61156-5)
Hastighetsfaktor	70 [%]
Mutual capacitance	48 [nF/km]

## Normer

Halogenfri, max korrosive og giftige gasser	IEC 60754-1 & IEC 60754- 2
Materialeegenskaper, isolasjon og kappe	IEC 60092-360 SHF1
Flammehemmet buntet kabel	IEC 60332-3-22 Cat.A
Flammehemmet enkeltkabel	IEC 60332-1-2
Røykutvikling	IEC 61034-2 ≥ 60%
Olje- og drivstoffbestandig	IRM 902 23°C / 7 dager, 70°C / 4h
UV-bestendig	UL 1581 (300h)
Sertifisering	DNV



El-nummer	1089616
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## 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	3,75	3,55	23,0	25,0	78,0	101,0	75,0	98,0	78,0	93,0
8	5,22	4,90	24,5	27,5	78,0	99,0	75,0	96,0	77,2	91,0
10	5,82	5,48	25,0	28,0	78,0	98,0	75,0	95,0	75,3	89,0
16	7,34	7,01	25,0	28,0	78,0	96,0	75,0	93,0	71,2	86,0
20	8,21	7,91	25,0	28,0	78,0	93,0	75,0	90,0	69,3	83,0
25	9,18	8,91	24,3	28,0	78,0	93,0	75,0	90,0	67,3	81,0
31,25	10,26	10,02	23,6	27,0	78,0	93,0	75,0	90,0	65,4	79,0
62,5	14,57	14,29	21,5	25,0	78,0	88,0	75,0	85,0	59,4	74,0
100	18,53	18,12	20,1	24,0	75,4	83,0	72,5	80,0	55,3	69,0
200	26,47	25,90	18,0	21,0	70,9	83,0	67,9	80,0	49,3	63,0
250	29,73	29,06	17,3	20,0	69,4	80,0	66,4	77,0	47,3	61,0
300	32,69	31,96	17,3	19,0	68,2	80,0	65,2	77,0	45,8	55,0
500	42,76	41,47	17,3	19,0	64,9	75,0	61,9	72,0	41,3	50,0
600	47,10	45,79	17,3	19,0	63,7	75,0	60,7	72,0	39,7	48,0
800	54,92	53,73	16,1	19,0	61,9	75,0	58,9	72,0	37,2	45,0
1000	61,93	60,24	15,1	19,0	60,4	75,0	57,4	72,0	35,3	42,0

## Versjon

Dato	Rev.	Beskrivelse
April 2019	1	DNV-GL Approval
20.09.2023	2	Drain wire
23.10.2023	3	Power over Ethernet