



LanMarin® Cat 6A S/FTP SHF1- Tinned

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



sales@fscables.com

Application

Approved LAN cable, designed for ship- and offshore applications. Tested according to IEC 61156 - 5 for transmission characteristics up to 600 MHz - Horizontal floor wiring - Sectional specification.

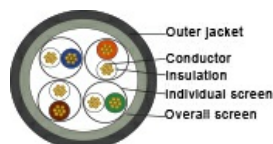


Construction

Conductor	0,26 [mm ²] Stranded Tinned Cu 0.22 x 7 [mm] AWG 23/7
Insulation	Cellular PE 1,55 ± 0,05 [mm]
No. of pairs	4
Colour code	IEC 60189-2
Individual Screen pairs	Al/Mylar tape
Screen	Tinned Cu-braid 60 [% optical coverage]
Jacket	Grey SHF1
O.D.	9.0 ± 0.5 [mm]
Weight	80 [kg/km]

Jacket marking

NEK Kabel - LanMarin Cat 6A S/FTP 4x2xAWG23/7 SHF1 - DNV-GL - IEC 60332-3-22 - <batch no.> - <year> - <meter marking>



Specifications

Operating temperature	-40 – +80 [°C]
Temperature @ installation	-20 – +80 [°C]
Dielectric strength	DC1kV for 1min.
Characteristic impedance	100 [Ω]
Conductor resistance	≤ 67 [Ω/km]
Resistance unbalance	≤ 5 [%]
Insulation resistance	≥ 5000 [MΩ x km] (IEC 61156-5)
Capacitance	≤ 160 [pF/100m]
Min. bending radius	4 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, 2
Material properties, insulation and sheath	IEC 60092-360 3582
Transmission performance	IEC 61156-5
Design and testing standards	IEC 61156-5 EN 50288-1
Flame retardant	IEC 60332-1-2
Fire retardant	IEC 60332-3-22 Cat.A
Oil and fuel, hydrocarbons resistant	IEC 60811-2-1 IRM 902 23°C / 7 days, 70°C / 4h
Smoke emission	IEC 61034-2 (≥ 60%)
UV-resistant	UL 1581 (300H)
Certification	DNV-GL



Part No.	1089651
----------	---------

Alternatives:

Black jacket: Part No. 10256632 without DNV-GL approval.

Grey Jacket, bare Cu conductors: Part No. 1089687 DNV-GL approved.

LanMarin Cat 6A with solid conductors available on request, or replaced by LanMarin Cat 7 Solid, Part nr. 2030001.



Attenuation

Freq. [MHz]	Att. std. [dB]	Att. typ. [dB]	RL std. [dB]	RL typ. [dB]	NEXT std. [dB]	NEXT typ. [dB]	PSNEXT std. [dB]	PSNEXT typ. [dB]	ELFEXT std. [dB]	ELFEXT typ. [dB]	PSELFEXT std. [dB]
4	3,8	3,78	23,0	25,0	66,3	98,0	63,3	95,0	56,0	76,0	53,0
8	5,31	5,22	24,5	30,0	61,8	98,0	58,8	95,0	49,9	76,0	46,9
10	5,93	5,84	25,0	30,0	60,3	98,0	57,3	95,0	48,0	68,0	45,0
16	7,49	7,47	25,0	30,0	57,2	98,0	54,2	95,0	43,9	64,0	40,9
20	8,38	8,32	25,0	28,0	55,8	93,0	52,8	90,0	42,0	62,0	39,0
25	9,38	9,30	24,3	27,0	54,3	90,0	51,3	87,0	40,0	60,0	37,0
31,25	10,5	10,40	23,6	25,0	52,9	88,0	49,9	85,0	38,1	58,4	35,1
62,5	14,99	14,91	21,5	24,0	48,4	85,0	45,4	82,0	32,1	55,0	29,1
100	19,14	19,10	20,1	24,0	45,3	83,0	42,3	80,0	28,0	48,0	25,0
200	27,58	27,50	18,0	21,0	40,8	81,0	37,8	78,0	22,0	52,0	19,0
250	31,07	30,83	17,3	20,0	39,3	78,0	36,3	75,0	20,0	40,0	17,0
300	34,27	34,09	17,3	19,0	38,1	78,0	35,1	75,0	18,5	38,5	15,5
400	40,05	39,86	17,3	19,0	36,3	73,0	33,3	70,0	16,0	36,0	13,0
500	45,26	44,72	17,3	19,0	34,8	73,0	31,8	70,0	14,0	34,0	11,0

Updated

Date	Rev.	Description
April 2019	1	DNV-GL Approved