



LanMarin® Fire Cat 6A Arm SHF2

S/FTP

AWG 23/1 Solid

Armoured

SHF2, UV

DNV / ABS

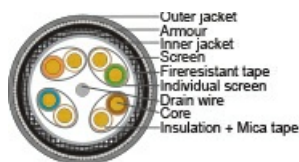
Application

Armoured, high performance offshore LAN cable with solid conductors, AWG 23/1. Compliant with the Category 6A standards, requiring bandwidths up to 500 MHz. Foil screened pairs with an overall tinned copper braid. Tested for high-frequency and transmission measurements for Class EA-Link. Ethernet IEEE 802.3at-2009 Type 2 (PoE+). This cable can be used in rough environments.



Construction

Conductor	Solid Bare Cu 0.58 [mm] AWG 23/1
Insulation	Foam PE , each cord is wrapped with fire resistant mica tape
No. of pairs	4
Colour code	pair 1: white/blue - blue pair 2: white/orange - orange pair 3: white/green - green pair 4: white/brown - brown
Individual Screen pairs	Al/Mylar tape
Drain wire	0.4mm solid Annealed Tinned Copper
Overall Screen	Tinned Cu-braid ≥ 55 [% coverage]
Inner jacket	SHF1
Armour	Galvanised steel wire braid
Jacket	SHF2
O.D.	14.0 ± 1.0 [mm]
Weight	100 [kg/km]
Jacket marking	NEK Kabel AS – LanMarin® Fire Cat 6A S/FTP 4x2x23/1 AWG Armoured – Fire Resistant 60331-23 (180min) – SHF2 – DNV / ABS – <batch no.> – <****M>





Specifications

Operating temperature normal	-40 – +90 [°C]
Temperature @ installation	-15 – +50 [°C]
Power over Ethernet	IEEE 802.3at-2009 Type 2 (PoE+)
Rated voltage	≥ 80 [V]
Tensile strength	110 [N]
Min. bending radius installed	10 [x outer diam]
Min. bending radius @ installation	20 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Flame resistance	IEC 60332-3-22 , IEC 60332-1-2
Fire resistant	IEC 60331-23 (180min) EN 50289-4-16 (180min)
Smoke emission	IEC 61034-1 & IEC 61034-2
Oil and fuel resistant	IEC 60811-404 , IIR 902 & IIR 903
UV-resistant	ASTM G 154
Certification	DNV / ABS



Prod.no	2020010
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Attenuation

Frequency (MHz)	Attenuation Max. (dB/100m)	Return Loss (dB/100m)	NEXT (dB/100m)	PS-NEXT (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)
4	3,8	23,0	66,3	63,3	56,0	53,0
8	5,3	24,5	61,8	58,8	49,9	46,9
10	5,9	25,0	60,3	57,3	48,0	45,0
16	7,5	25,0	57,2	54,2	43,9	40,9
20	8,4	25,0	55,8	52,8	42,0	39,0
25	9,4	24,3	54,3	51,3	40,0	37,0
31,25	10,5	23,6	52,9	49,9	38,1	35,1
62,5	15,0	21,5	48,4	45,4	32,1	29,1
100	19,1	20,1	45,3	42,3	28,0	25,0
150	23,7	18,9	42,7	39,7	24,5	21,5
200	27,6	18,0	40,8	37,8	22,0	19,0
250	31,1	17,3	39,3	36,3	20,0	17,0
300	34,3	17,3	38,1	35,1	18,5	15,5
400	40,1	17,3	36,3	33,3	16,0	13,0
500	45,3	17,3	34,8	31,8	14,0	11,0

Updated

Date	Rev.	Description
17.10.2023	1	Rated voltage
16.09.2025	2	Adding ABS