



LanMarin® Cat 6A ARM SHF1

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

Application

Reinforced cable for ship- and offshore LAN installations. The product is approved and available in alternative designs. Galvanized steel armour braid. This product is suitable for use in EMC-installations. Cable for transmission characteristics up to 1 000 MHz - horizontal floor wiring - Sectional specification.



Construction

Conductor	Stranded bare or tinned Cu AWG 23/7
Insulation	Foamskin PE $\varnothing = 1,55 \pm 0,05$ [mm]
No. of pairs	4
Colour code	IEC 60189-2
Individual Screen pairs	Al/Mylar tape
Screen	Tinned Cu-braid ≥ 60 [% coverage]
Inner jacket	SHF1 $\varnothing=9,0$ [mm]
Armour alt.1	Galvanised steel wire braid $\geq 60\%$ coverage
Outer Jacket	Grey SHF1 , other colours on request
O.D.	11,7 [mm]
Weight	110 [kg/km]
Jacket marking	Nek Kabel - LanMarin Cat 6A S/FTP 4x2xAWG23/7 SHF1 GSWB Arm - DNV-GL - IEC 60332-3-22 - <batch no.> - <year> - <meter mrk.>



Specifications

Operating temperature	-40 – +80 [°C]
Temperature @ installation	-20 – +60 [°C]
Dielectric strength	DC1kV for 1min.
Impedance at 100MHz	100 \pm 5 [Ω]
Conductor resistance	≥ 70 [Ω /km]
Insulation resistance	5000
Capacitance	≤ 160 [pF/100m] at 1kHz
Min. bending radius	10 [x outer diam]
Min. bending radius installed	5 [x outer diam]

Norms

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



LanMarin Cat 6A Armoured can be delivered with bronze or copper-braid as an alternative to steel braid.



Part No. Tinned: 1089656

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]	PSELF std [dB]
4	3,80	3,50	23,0	25,0	66,3	98,0	63,3	95,0	56,0	76,0	55,0
8	5,31	4,83	24,5	30,0	61,8	98,0	58,8	95,0	49,9	76,0	44,0
10	5,93	5,40	25,0	30,0	60,3	98,0	57,3	95,0	48,0	68,0	44,0
16	7,49	6,92	25,0	30,0	57,2	98,0	54,2	96,0	43,9	64,0	44,0
20	8,38	7,80	25,0	28,0	55,8	93,0	52,8	90,0	42,0	62,0	39,0
25	9,38	8,80	24,3	27,0	54,3	90,0	51,3	87,0	40,0	60,0	39,0
31,25	10,50	9,90	23,6	35,0	52,9	88,0	49,9	85,0	38,1	58,4	39,0
62,5	14,99	14,11	21,5	24,0	48,4	85,0	45,4	82,0	32,1	55,0	29,0
100	19,14	17,90	20,1	24,0	45,3	83,0	42,3	80,0	28,0	48,0	29,0
200	27,58	25,67	18,0	21,0	40,8	81,0	37,8	78,0	22,0	52,0	19,0
250	31,07	28,83	17,3	20,0	39,3	78,0	36,3	75,0	20,0	40,0	19,0
300	34,27	31,69	17,3	19,0	38,1	78,0	35,1	75,0	18,5	38,5	19,0
400	40,05	36,96	17,3	19,0	36,3	73,0	33,3	70,0	16,0	36,0	19,0
500	45,26	41,72	17,3	19,0	34,8	73,0	31,8	70,0	14,0	34,0	19,0

Updated

Date	Rev.	Description
April 2019	1	Renewal DNV-GL
21.08.2020	2	Weight, dimension