

LanMarin® Cat 6A ARM SHF1

AWG 23/7

S/FTP Armoured

UV, SHF1

DNV

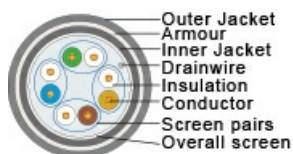
Application

Reinforced cable for ship- and offshore LAN installations. The product is approved and available in alternative designs. Galvanized steel braid or tinned Cu-braid armour. This product is suitable for use in EMC-installations. Cable for transmission characteristics up to 1 000 MHz - horizontal floor wiring - Sectional specification, Ethernet IEEE 802.3at-2009 Type 2 (PoE+). This cable can be used in rough environments.



Construction

Conductor	Stranded 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
Drain wire	0.4mm solid Annealed Tinned Copper
Screen	Tinned Cu-braid ≥ 60 [% coverage]
Inner jacket	SHF1 $\varnothing = 8.5 \pm 0.3$ [mm]
Armour alt.1	Galvanised steel wire braid ≥ 60 [% coverage]
Armour alt.2	Tinned Cu-braid
Outer Jacket	Grey SHF1 , other colours on request
O.D.	11.5 ± 0.6 [mm]
Weight	175 [kg/km]
Jacket marking	Nek Kabel - LanMarin Cat 6A S/FTP 4x2xAWG23/7 SHF1 GSWB - DNV - IEC 60332-3-22 - <batch no.> - <year> - <meter mrk.>





Attenuation

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

Updated

Date	Rev.	Description
April 2019	1	Renewal DNV-GL
16.02.2022	2	Weight, dimension
16.10.2023	3	Rated voltage