



LanMarin® Cat 7 S/FTP SHF1

S/FTP - Flexible
UV resistant, SHF1
DNV-GL, ABS



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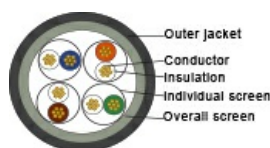
Application

High performance offshore LAN cable with flexible conductor, AWG23/7. Compliant with the category 7 standards, requiring bandwidths up to 600MHz. Foil screened pairs with an overall braid. Tested for high-frequency and transmission measurements for class F-link.



Construction

Conductor	0.28 [mm ²] Stranded Plain Cu AWG23/7
Insulation	Cellular PE Ø=1.5 [mm]
No. of pairs	4
Colour code	IEC 60189-2
Individual Screen pairs	Al-/polyester tape
Overall Screen	Tinned Cu-braid
Jacket	Black SHF1
O.D.	8±0.20 [mm]
Weight	97 [kg/km]
Jacket marking	NEK Kabel LanMarin-SSTP Flex 4x2x23AWG Cat. 7 LSZH-IEC60332-3-22



Specifications

Operating temperature	-40 to +80 [°C]
Characteristic impedance	100±5 [Ω @ 100 MHz]
Insulation resistance	≥ 500 [MΩ x km]
Test voltage	1 [kV]
Velocity factor	0,78
Min. bending radius	15 [x outer diam]
Min. bending radius flexible	20 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-2
Design and testing standards	IEC 61156-5 EN 50288-4-2
Sheathing material	IEC 60092-360 (359)
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3-22
Weather resistant	IEC 60502 EN ISO 11507
Oil and fuel, hydrocarbons resistant	IEC 60811
Smoke emission	IEC 61034-1, -2
UV-resistant	ASTM G 154
Certification	DNV-GL, ABS
Part No.	1089726

Also look for alternative jacket colours and arctic grade construction in Variants.



Attenuation

Frequency (MHz)	Attenuation Max. (dB/100m)	Return Loss (dB/100m)	NEXT (dB/100m)
1	2,2	35	100
4	3,8	31	100
10	5,9	38	95
16	7,4	32	90
20	8,4	32	90
34,25	10,5	31	90
62,5	15,3	27	85
100	18,1	34	82
155	23,2	28	80
200	26,6	25	77
300	33,3	23	71
600	50,1	21	67

Updated

Date	Rev.	Description
24.05.2018	1	Name change from SSTP to S/FTP