

LanMarin® Cat 6A SHF1

S/FTP
UV-resistant
DNV-GL

Application

Individual and collective screened LAN-cable, designed for ship- and offshore applications.



Construction

Conductor	0,26 [mm ²] Stranded Bare Cu AWG 23/7
Insulation	Cellular PE 1.48 ± 0.02 [mm]
No. of pairs	4
Colour code	IEC 60189-2
Individual Screen pairs	Al/Mylar tape
Screen 2	Tinned Cu braid ≥60 [% optical coverage]
Jacket	Grey SHF1
O.D.	9 [mm]
Weight	80 [kg/km]



Specifications

Operating temperature	-40 – +80 [°C]
Temperature @ installation	-10 - +60 [°C]
Dielectric strength	DC1kV for 1min.
Characteristic impedance	100 [Ω]
Conductor resistance	≤73,2 [Ω/km]
Insulation resistance	≤5000 [MΩ x km]
Capacitance unbalance	≥160 [pF/100m]
Min. bending radius installed	4 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, 2
Material properties, insulation and sheath	IEC 60092-360 (359)
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	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. 1089687 Armoured 1089688

LanMarin Cat 6A is also approved by DNV-GL and available with solid conductors



Attenuation

Frequency (MHz)	Attenuation Max. (dB/100m)	Return Loss (dB/100m)	NEXT (dB/100m)	PS-NEXT (dB/100m)	ELFEXT (dB(100m))
1	1,8	25,0	95		90
10	5,4	30	92		87
16	6,7	30	90		86
31,25	9,6	30	87		81
100	17,5	27	84		72
155	22,8	26	83		68
200	24,8	25	82		65
400	35,9	22	80		59
500	40,2	21	79		57