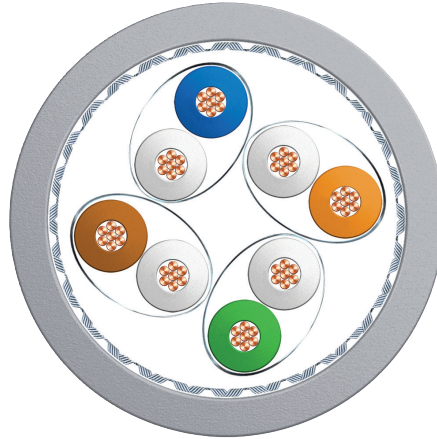


CAT.6A S/FTP SHF1
4x2x23AWG/7 <DNV Approved>



Application

Cat.6A Individual and collective screened lan-cable for ship and offshore use.
The cable is used for data transmission with characteristic impedance for 100ohm.

Cable Design

Conductor	7/0.23mm stranded bare copper wire
Insulation	Foam PE Ø 1,55 ± 0,10 mm
Pair Identification	White/Blue, White/Orange, White/Green, White/Brown
Individual screen	AL/Mylar
Overall screen	Tinned copper braiding, coverage ≥ 60%
Outer Jacket	SHF1, Grey
Outer Jacket Thickness	≠ 0,85 mm approx.
Overall Diameter	Ø 9,0 ± 0,50 mm

CAT.6A S/FTP SHF1
4x2x23AWG/7 <DNV Approved>

Electrical Characteristics(20 °C)

Conductor DC resistance	≤ 95 Ω/km
DC Resistance Unbalance	≤ 2% (within a pair)
Characteristic impedance	100 ± 5 Ω @100MHz
Dielectric Strength	DC 1KV for 1 min (conductor to conductor, conductor to screen)
Insulation Resistance	≥ 5000 MΩ.km (IEC 61156-5)
Capacitance Unbalance (pair to ground)	≤ 160 pF/100m at 1kHz (IEC 61156-5)
Transmission performance	IEC 61156-5

Frequency (MHz)	Attenuation dB/100m	RL dB	NEXT dB	PSNEXT dB	ELFEXT dB	PSELFEXT dB
	Max.	Min.	Min.	Min.	Min.	Min.
4	3,80	23,0	66,3	63,3	56,0	53,0
8	5,31	24,5	61,8	58,8	49,9	46,9
10	5,93	25,0	60,3	57,3	48,0	45,0
16	7,49	25,0	57,2	54,2	43,9	40,9
20	8,38	25,0	55,8	52,8	42,0	39,0
25	9,38	24,3	54,3	51,3	40,0	37,0
31,25	10,50	23,6	52,9	49,9	38,1	35,1
62,5	14,99	21,5	48,4	45,4	32,1	29,1
100	19,14	20,1	45,3	42,3	28,0	25,0
200	27,58	18,0	40,8	37,8	22,0	19,0
250	31,07	17,3	39,3	36,3	20,0	17,0
300	34,27	17,3	38,1	35,1	18,5	15,5
400	40,05	17,3	36,3	33,3	16,0	13,0
500	45,26	17,3	34,8	31,8	14,0	11,0

CAT.6A S/FTP SHF1
4x2x23AWG/7 <DNV Approved>

Other Characteristics

Operating temperature:	-40 °C to +80 °C
Installation temperature:	-20 °C to +60 °C
Min. Bending radius:	Fixed ≥ 6D (Cable diameter)
Acid Gas Release Mounts:	≤ 5mg/g (IEC 60754-1)
Burning Occur Gas Acidity :	PH ≥ 4.3 (IEC 60754-2)
Burning Occur Gas conductivity:	< 10 μS/mm (IEC 60754-2)
Smoke density:	≥ 60% (IEC 61034-2)
Flame resistance:	IEC 60332-3-22, IEC 60332-3-24, IEC 60332-1-2
Oil resistance:	IRM902, 70 °C × 4h
UV resistance:	UL1581 (300H)
The jacket material performance:	IEC 60092-360
This cable meets RoHS requirements	

Specification

Part Number	Type
AMF6A-SF23-UAZF1	Armada® CAT.6A S/FTP SHF1 4x2x23AWG/7 DNV certified - Grey