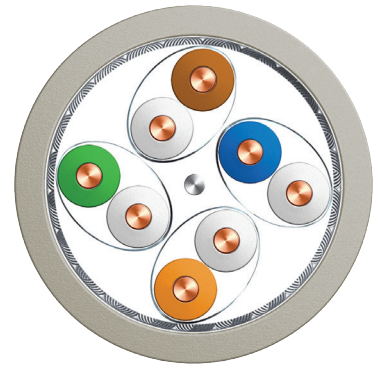




Armada®

Cat.6a 23/1awg S/FTP Horizontal Cable
DNV GL Certified

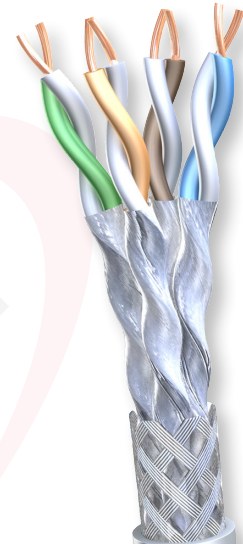


Application

DNV-GL Approved Cat6a for Offshore installations, Maritime Environment, High data rates, Indoor use, fixed installations, Ships, High speed & Light craft.

Cable Design

Conductor AWG	Solid Annealed Bare Copper wire 23/1 AWG
Insulation Diameter	Cellular PO Ø 1,38 mm nom.
Formation Pair Identification	2 cores twisted to a pair, 4 pairs total (4x2x23/1 awg) Per TIA/EIA 568-B
Individual shield	Aluminium/polyester foil, 100% coverage
Drain Wire	Solid Annealed Tinned Copper 0,41 mm
Overall Shield	Annealed Tinned Copper Wire Braid, 55% nom. coverage
Outer Jacket Colour	FR-LSZH SHF-1 or XL-HFFR SHF2 Grey
Diameter	Ø 7,90 ± 0,20 mm nom.
Weight	70 kg/km



Standards

Applicable Standards	DNV-GL certified, IEC 60092-359, IEC 60092-350, IEC 61156-5, IEEE 802.3at (PoE+), ISO/IEC 11801, RoHS-2 2011/65/EU
Flammability Rating	IEC 60332-1, IEC 60332-3-22, IEC 60332-3-24, IEC 60754-2, IEC 61034-1/2, UL 1581 VW-1



Armada®

Cat.6a 23/1 awg S/FTP Horizontal Cable DNV GL Certified

Specification

Part Number	Construction	Shield Type	Outer Jacket
AML6A-SFBS23-ZF1	4x2x23/1 awg	S/FTP	SHF1
AML6A-SFBS23-ZF2	4x2x23/1 awg	S/FTP	SHF2

Performance

Frequency Range	1 - 500	MHz
Impedance	100	Ohm
Transfer Impedance	Grade 1	
Coupling Attenuation	Type I	
DC Resistance	73	Ohm/km nom.
Max. Resistance Unbalance	2	%
Capacitance Unbalance	1,2	pF/m max.
Velocity of Propagation	78	% nom.
Propagation Delay Skew	25	ns/100m max.
Dielectric Strength	700	V/minute
Dielectric Strength to Shield	700	V/minute
Min. Insulation Resistance	5	GOhm • km
Tensile Strength - Short Term	130	N max.
Min. Bend Radius	80	mm
Max. Operating Temperature	+85	°C
Min. Operating Temperature	-40	°C
UV resistance	YES	



Armada®

Cat.6a 23/1awg S/FTP Horizontal Cable DNV GL Certified

Electrical Properties *Cat. 6A Screened-pair Horizontal Cables **

Fre- quency (MHz)	Attenuation (dB/100m) 20°C		PS NEXT Loss (dB)		NEXT Loss (dB)		RL (dB)		PS ANEXT (dB)		PS ELFEXT (dB)		ELFEXT (dB)	
	Typ.	Cat.6A	Typ.	Cat.6A	Typ.	Cat.6A	Typ.	Cat.6A	Typ.	Cat.6A	Typ.	Cat.6A	Typ.	Cat.6A
1	2,0	2,0	95,0	72,3	98,0	75,3	22,0	20	70,0	67	85,0	65	88,0	68
4	3,7	3,8	95,0	63,3	98,0	66,3	25,0	23	70,0	67	73,0	53	76,0	56
10	5,6	5,9	95,0	57,3	98,0	60,3	28,0	25	70,0	67	65,0	45	68,0	48
20	7,9	8,4	90,0	52,8	93,0	55,8	28,0	25	70,0	67	59,0	39	62,0	42
30	9,7	10,3	85,0	50,1	88,0	53,1	27,0	23,8	70,0	67	55,4	35,4	58,4	38,4
100	18,0	19,1	80,0	42,3	83,0	45,3	24,0	21,1	67,0	62,5	45,0	25	48,0	28
150	22,4	23,6	78,0	39,7	81,0	42,7	22,0	18,8	66,0	59,8	41,5	21,5	44,5	24,5
200	26,0	27,6	78,0	37,8	81,0	40,8	21,0	18	65,0	58	49,0	19	52,0	22
250	29,4	31,0	75,0	36,3	78,0	39,3	20,0	17,3	63,0	56,5	37,0	17	40,0	20
300	32,5	34,3	75,0	35,1	78,0	38,1	19,0	17,3	62,0	55,3	35,5	15,5	38,5	18,5
400	38,0	40,0	70,0	33,3	73,0	36,3	19,0	17,3	61,0	53,4	33,0	13	36,0	16
500	43,0	45,2	70,0	31,8	73,0	34,8	19,0	17,3	59,0	52	31,0	11	34,0	14

*Supplied cables meet the minimum Cat. 6A transmission requirements as per IEC 61156-5 Ed. 2

Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.