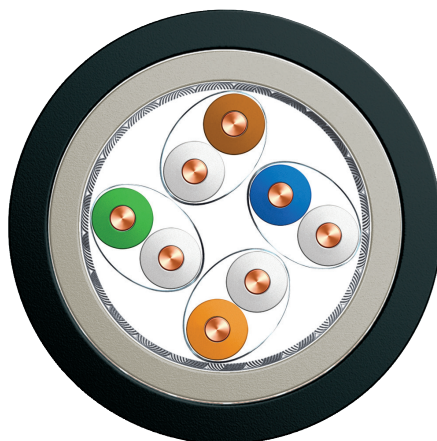


Cat.6a 23/1awg S/FTP Horizontal Cable MUD Resistant NEK606



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 (4x2x23/1awg) 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

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Inner Jacket	FR-LSZH SHF-1
Colour	Grey
Diameter	Ø 7.90 mm nom.
Outer Jacket	XL-HFFR MUD-Resistant
Colour	Black
Diameter	Ø 10.10 mm nom.

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	

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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

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, NEK TS 606
Flammability Rating	IEC 60332-1, IEC 60332-3-22, IEC 60332-3-24 , IEC 60754-2, IEC 61034-1/2, UL 1581 VW-1



*Cat.6a 23/1awg S/FTP Horizontal Cable
MUD Resistant NEK606*

Specification

Part Number	Type
AML6A-SFBS23-ZFM	Armada® Cat.6A 4x2x23/1 S/FTP LSZH-SHF2 MUD DNV-GL approved TAE00001 M4