



ADVANT SYSTEM

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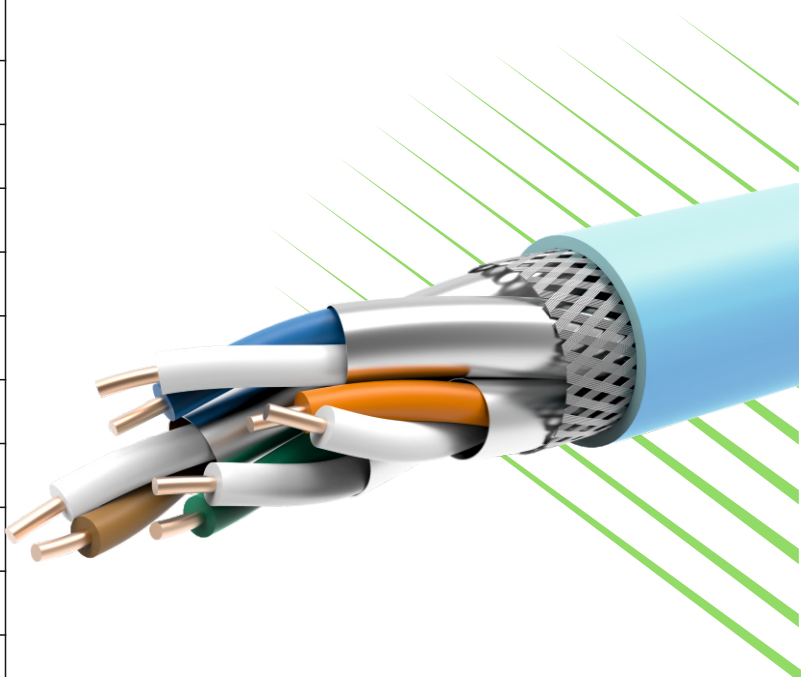
Item:
ADV6a-S23LB

Cable S/FTP, AWG23, 4P, Solid, LSZH, Blue

Cat6a cable is a "twisted pair" network cable used for 1000Base-T Ethernet applications at speed of up to 500MHz of bandwidth. This cable is preferred for more advanced networking installations where a higher bandwidth than normal is required. You can install it for your devices at home, in offices, hotels, and surveillance system for stable network connection.

Technical characteristic			
Category	S/FTP- CAT6A-4P-LSZH		
Reference Standard	ISO/IEC11801 、 ANSI/TIA-568-C.2		
Conductor	Material	Solid bare copper	
	O.D mm	0.57 mm	+/- 0.005 mm
Insulation	Material	Skin-foam-skin PE	
	O.D mm	1.3 mm	+/- 0.05 mm
Screening Material	Al/Mylar	Drain wire	Yes
Screening Material #2	Aluminum-magnesium alloy		Coverage 40%
Jacket	Thickness	0.5 mm	+/- 0.05 mm
	External O.D.	7.2 mm	+/- 0.5 mm
	Surface	Clean	
	Material	LSZH (complies RoHS)	
	Color	Blue	
Printing	Meter mark	≤±0.5%, 1m	
	Color	Black	
Core colors	White/Blue	White/Orange	
	White/Green	White/Brown	
Packing	Drum	305 mm	
Rip-cord	Yes		

Sheath Physical Properties		
Before Aging	Tensile Strength [Mpa]	≥10.0
	Elongation [%]	≥125
Aging period	100℃×24h×7d	
After Aging	Tensile Strength [Mpa]	≥8
	Elongation [%]	≥100
Cold bend	-20 C x 4 h	8 x OD

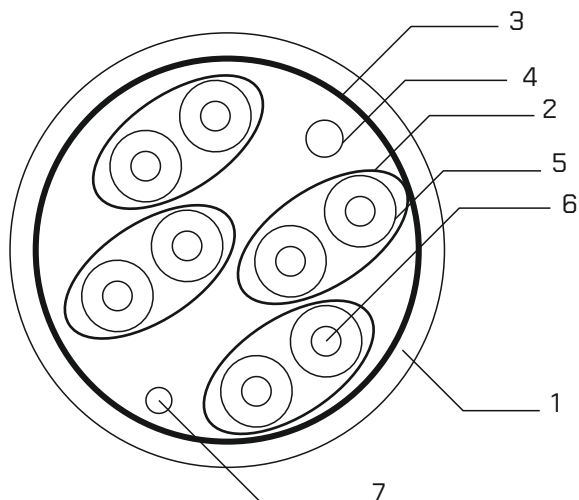




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Standard:

ISO/IEC 11801, ANSI/TIA-568.2-D,

IEC 61156-5, EN 50173-1,

EN 501288-2-1, IEC 60332-1-1,

IEC 60332-3-24 / IEC 60754-2 / IEC 61034-1

Data Rate Support:

10/100/1000Base-T

PoE/PoE+/PoE++ (IEEE802.3af/at/bt)

Construction

1. Jacket
2. Pair screen
3. Braid screen
4. Drain wire
5. Insulation
6. Conductors
7. Rip-cord

Electrical Characteristics

20 C

Impedance[Ω]	1.0-250.0 MHz	100 $\pm$ 15
	250.0-500.0 MHz	100 $\pm$ 22
Delay Skew (ns/100 m)	1.0-500.0 MHz	$\leq$ 45
Capacitance unbalanced-to-ground	[pf/100m]	max 330
DC Resistance	[Ω /100m]	max 9.38
DCR Conductor	[%]	max 5

Technical Performance (100m):

Frequency	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSLFEXT
MHz	$\geq$ dB	$\geq$ dB	$\geq$ dB	n $\geq$ s	$\geq$ dB	$\geq$ dB	$\geq$ dB
1	20		74.3	570	72.3	67.8	64.8
4	23	3.8	65.3	552	63.3	55.8	52.8
8	24.5	5.3	60.8	546.7	58.8	49.7	46.7
10	25	5.9	59.3	545.4	57.3	47.8	44.8
16	25	7.5	56.2	543	54.2	43.7	40.7
20	25	8.4	54.8	542.1	52.8	41.8	38.8
25	24.3	9.4	53.3	541.2	51.3	39.8	36.8
31.25	23.6	10.5	51.9	540.4	49.9	37.9	34.9
62.5	21.5	15	47.4	538.6	45.4	31.9	28.9
100	20.1	19.1	44.3	537.6	42.3	27.8	24.8
200	18	27.6	39.8	536.5	37.8	21.8	18.8
250	17.3	31.1	38.3	536.3	36.3	19.8	16.8
300	16.8	34.3	37.1	536.1	35.1	18.3	15.3
500	15.2	45.3	33.8	535.6	31.8	13.8	10.8