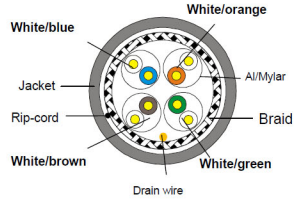


CAT6A S/FTP 4 Pairs LSZH Cable



FEATURES

- 23 AWG conductor - solid bare copper cable
- PVC, LSZH and PE options
- Supplied in 305m boxes or 500 reels
- Printed metre marks

DIAGRAM & DESCRIPTION

OPTiLite category 6A S/FTP LSZH cables is designed to deliver robust standards based performance ensuring optimum bandwidth for today's high speed network applications.

The cable is designed to support horizontal networking applications over distances up to 100 metres.

Cable performance is routinely verified by the independent testing laboratory 3P as part of an ongoing maintenance programme.

Our category 6A S/FTP LSZH cable exceeds the minimum specified performance for category 6A S/FTP cables.

Support all class EA applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 100GBASE-T (Gigabit Ethernet), 2G FCBASE-T, 4G FCBASE-T and 1000BASE-T (Gigabit Ethernet).

Sheath Printing	OPTiLite 4/23AWG (PVC / LSZH) ****m		
Category	S/FTP-CAT6A-4P-LSZH-AM30		
Test Standard	ISO/IEC11801, TIA-568-C.2, YD/T 1019		
Conductor	Material	SOLID-Bare Copper	
	Nom.O.D.(mm)	0.565	up down +0.005 -0.005
Insulation	Material	Skin-foam-skin PE	
	Diameter	1.330 ± 0.05 mm	
Inner Screening Material	Al/Mylar	Drain wire	TC0.45
Outer Screening Material	Tinned Copper 0.10mm	Coverage	30%
	Thickness	0.55 ± 0.05 mm	
Sheath	External O.D.	7.5 ± 0.5 mm	
	Surface	Clean	
	Material	LSZH (complies RoHS)	
	Color	According to the requires	
Surface Printing	Letter height	3.0 ± 0.3mm	
	Color	Black	
	Print error & Space	≤ ± 0.5%, 1m	
Core Color	White/Blue	White/Orange	
	White/Green	White/Brown	
Packing	Wooden Tray & Carton		
Tray Dimension	According to the requires		
Packing length	305 ± 1.0m		
Rip-cord	Yes		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0	
	Elongation (%)	≥125	
	Aging Period (°C×hrs)	100°C×24h×7d	
	After Aging Tensile Strength (Mpa)	≥8	
	Elongation (%)	≥100	
Electrical Characteristics (20°C)	Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks		
	Velocity of Propagation (%) 74		
	Delay Skew (ns/100m) ≤ 45		
	Capacitance unbalance to ground (pf/100m) max 330		
	DC Resistance (Ω/100m) max 9.38		
DC Conductor Resistance Unbalance (%) max 2.0			

TRANSMISSION PERFORMANCE (20°C, 100M)							
Frequency (MHz)	Attenuation (< dB)	ReturnLoss (> dB)	Next (> dB)	PS-NEXT (> dB)	ELFEXT (> dB)	PS-ELFEXT (> dB)	Propagation Delay (< ns)
1.0	—	20.0	74.3	72.3	68.0	65.0	570.0
4.0	3.8	23.0	65.3	63.3	56.0	53.0	552.0
8.0	5.3	24.5	60.8	58.8	49.9	46.9	546.7
10.0	5.9	25.0	59.3	57.3	48.0	45.0	545.4
16.0	7.5	25.0	56.2	54.2	43.9	40.9	543.0
20.0	8.4	25.0	54.8	52.8	42.0	39.0	542.1
25.0	9.4	24.3	53.3	51.3	40.0	37.0	541.2
31.25	10.5	23.6	51.9	49.9	38.1	35.1	540.4
62.5	15.0	21.5	47.4	45.4	32.1	29.1	538.6
100.0	19.1	20.1	44.3	42.3	28.0	25.0	537.6
200.0	27.6	18.0	39.8	37.8	22.0	19.0	536.5
250.0	31.1	17.3	38.3	36.3	20.0	17.0	536.3
300.0	34.3	16.8	37.1	35.1	18.5	15.5	536.1
500.0	45.3	15.2	33.8	31.8	14.0	11.0	535.6

Applicable Standards

The category 6A S/FTP LSZH cable is manufactured and tested directly in accordance with the major industry standards:

- ISO/IEC 11801 2nd Edition
- ANSI/TIA 568-C.2
- EN 50173
- IEC 61156-5
- EN 50288-3-1

Fire Performance

Category 6A S/FTP LSZH cables exceed the requirements of:

- IEC 60332-1-2
- IEC 60754-2
- IEC 61034



System Warranty:

The OPTiLite Cabling System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited OPTiLite Partner who has designed, supplied and installed the said system.

