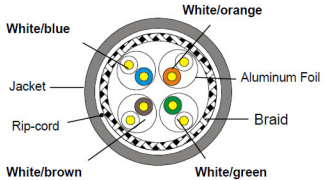


## CAT7 S/FTP 4Pairs LSZH Cable



### FEATURES

- Low Smoke Zero Halogen Jacket
- High performance design
- Individual foil pairs with overall braid screen
- Category7 Performance to 1000 MHz
- 23 AWG Conductors

### DIAGRAM & DESCRIPTION

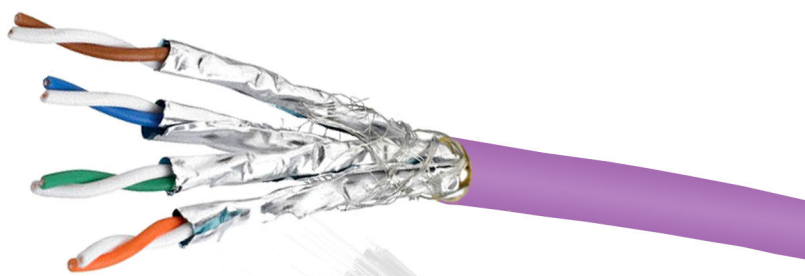
OPTiLite Category 7 S/FTP LSZH cables are designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 metres.

### Standards Compliance

- ISO/IEC 11801:2011 (Ed. 2.2)
- IEC 61156-5:2009 (Ed. 2.0)
- EN 50173-1:2011
- EN 50173-2:2007 including amendment A1:2010
- EN 50288-4-1:2003
- IEC 60332-1-[1,2]:2004
- IEC 60754-[1,2]
- IEC 61034-[1,2]
- REACH / SvHC Compliant regulation (EC) No. 1907/2006

Sheath Printing	OPTiLite S/FTP CAT7 4/23AWG LSZH ****m		
Category	S/FTP-CAT7-4P-LSZH-TC30		
Test Standard	ISO/IEC 61156-5; EN 50288-4; YD/T1019		
Conductor	Material	SOLID-Bare Copper	
	Nom.O.D.(mm)	0.560	up +0.005 down -0.005
Insulation	Material	Skin-foam-skin PE	
	Diameter	1.330±0.05 mm	
Inner Screening Material	Aluminum Foil	Drain wire	No
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	
	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		
	Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks		
Electrical Characteristics (20°C)	Impedance(Ω) : (1-100MHz)	100±15Ω,	
	(100-250MHz)	100±18Ω, (250-600MHz)	
		100±25Ω	
	Delay Shew (ns/100m)	≤25	
	Velocity of Propagation (%)	74	
	unbalanced-to-ground capacitance (pf/100m) max 330		
	DC Resistance (Ω/100m) max 9.5		
	DC Conductor Resistance Unbalanc (%) max 2.0		

TRANSMISSION PERFORMANCE (20°C, 100M)							
Frequency (MHz)	Attenuation (dB/100m)	ReturnLoss (dB)	Next (dB)	PS-NEXT (dB)	ELFEXT	PS-ELFEXT (dB/100m)	Propagation Delay (ns/100m)
1.0	2.0	20.0	78.0	75.0	78.0	75.0	570.0
4.0	3.74	23.0	78.0	75.0	78.0	75.0	552.0
8.0	5.24	24.5	78.0	75.0	75.9	72.9	546.7
10.0	5.86	25.0	78.0	75.0	74.0	71.0	545.4
16.0	7.41	25.0	78.0	75.0	69.9	66.9	543.0
20.0	8.29	25.0	78.0	75.0	68.0	65.0	542.0
25.0	9.29	24.3	78.0	75.0	66.0	63.0	541.2
31.25	10.41	23.6	78.0	75.0	64.1	61.1	540.4
62.5	14.88	21.5	75.5	72.5	58.1	55.1	538.6
100.0	19.02	20.1	72.4	69.4	54.0	51.0	537.6
200.0	27.47	18.0	67.9	64.9	48.0	45.0	536.5
250.0	30.97	17.3	66.4	63.4	46.0	43.0	536.3
300.0	34.19	17.3	65.2	62.2	44.5	41.5	536.1
600.0	50.10	17.3	60.7	57.7	38.4	35.4	535.5



**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.

