

# OD7S823L

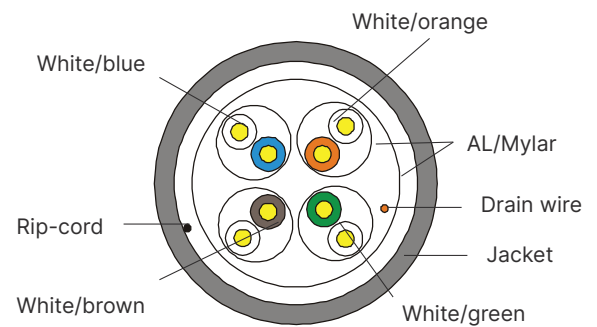
## 23AWG CAT7 S/FTP LSZH Network Cable

### Applications

- Horizontal Wiring in LAN
- IEEE 802.3: 10/100/1000 Base-T
- IEEE 802.5 16MB
- Power Over Ethernet PoE/PoE+
- IEEE 802.3af and IEEE 802.3at

### Physical Characteristics

Conductor	
Material	Solid Bare Copper
Conductor Diameter	0.580mm (±0.005)
Insulation	
Material	Skin-foam-skin PE
Overall Diameter	1.350mm (±0.05)
Screening Material	
	AL/Mylar, Drain Wire: Yes
Outer Screening Material	
	Alum. Alloy 0.12mm, 40%
Sheath	
Thickness	0.55mm (±0.05)
External O.D.	7.8mm (±0.5)
Surface	Clean, Frap, Satiation
Material	LSZH(complies RoHS)
Color	TBD
Surface Printing	
Letter height	3.0mm (±0.3)
Color	Black
Print error & Space	≤±0.5%, 1m
Color	
1. White Blue/Blue	2. White Orange/Orange
3. White Green/Green	4. White Brown/Brown
Packing	
	Drum
Wooden Tray Dimension	
	According to the requires
Packing Length	
	305m (±1.0)
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)	≥8.0
Elongation (%)	≥100
Cold bend (-20±2°C×4h) 8×Cable O.D.	No visible cracks
Electrical Characteristics (20°C)	
1.0-250.0MHz Impedance(Ω)	100±15
1.0-250.0MHz Delay Skew (ns/100m)	≤25
DC Resistance (Ω/100m) max	9.38
DC Conductor Resistance Unbalance (%) max	2.0



### Standards

- ISO/IEC11801
- TIA-568-C.2
- RoHS

### Technical Performance (100m)

Frequency (MHz)	Return Loss (≥dB)	Attenuation 20°C (≤dB)	NEXT (≥dB)	DELAY (≤ns)
1.00	20.0	-	78.0	570.0
4.00	23.0	3.74	78.0	552.0
8.00	24.5	5.24	78.0	546.7
10.00	25.0	5.86	78.0	545.4
16.00	25.0	7.41	78.0	543.0
20.00	25.0	8.29	78.0	542.0
25.00	24.3	9.29	78.0	541.2
31.25	23.6	10.41	78.0	540.4
62.25	21.5	14.88	75.5	538.6
100	20.1	19.02	72.4	537.6
150	18.9	23.56	69.8	536.9
200	18.0	27.47	67.9	536.5
250	17.3	30.97	66.4	536.3
300	17.3	34.19	65.2	536.1
600	17.3	50.10	60.7	535.5

Frequency (MHz)	PSNEXT (≥dB)	ELNEXT (≥dB)	PSELFEXT (≥dB)
1.00	75.0	78.0	75.0
4.00	75.0	78.0	75.0
8.00	75.0	75.9	72.9
10.00	75.0	74.0	71.0
16.00	75.0	69.9	66.9
20.00	75.0	68.0	65.0
25.00	75.0	66.0	63.0
31.25	75.0	64.1	61.1
62.25	72.5	58.1	55.1
100	69.4	54.0	51.0
150	66.8	50.2	47.2
200	64.9	48.0	45.0
250	63.4	46.0	43.0
300	62.2	44.5	41.5
600	57.7	38.4	35.4