

# OD6A23L CAT.6A

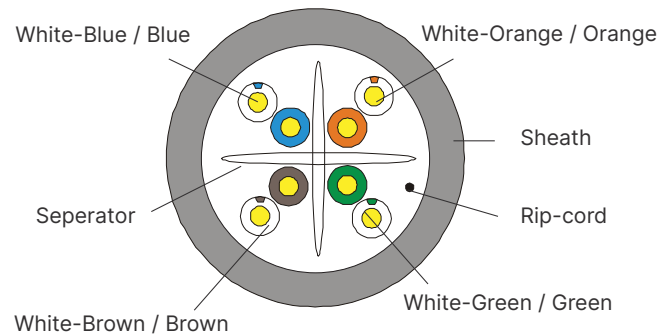
## 23AWG CAT6A U/UTP LSZH Network Cable

### 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, IEEE 802.3at and IEEE 802.3an

### Physical Characteristics

Conductor	
Material	Solid Bare Copper
Conductor Diameter	0.565mm (± 0.005)
Insulation	
Material	HDPE
Overall Diameter	0.98mm (± 0.05)
Thickness	0.70mm (±0.05)
Sheath	
External O.D.	7.1mm (±0.4)
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	
Wooden Tray Dimension	According to the requires
Packing Length	305m (±1.5)
Rip Cord	Yes; Drain wire: No
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
250.0-500.0MHz Impedance(Ω)	100±22
1.0-250.0MHz Delay Skew (ns/100m)	≤45
DC Resistance (Ω/100m) max	9.38
DC Conductor Resistance Unbalance (%) max	5.0



### Standards

- ISO/IEC11801
- ANSI/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	2.10	74.3	570.0
4.00	23.0	3.80	65.3	552.0
8.00	24.5	5.3	60.8	546.7
10.00	25.0	5.9	59.3	545.4
16.00	25.0	7.5	56.2	543.0
20.00	25.0	8.4	54.8	542.1
25.00	24.3	9.4	53.3	541.2
31.25	23.6	10.5	51.9	540.4
62.25	21.5	15.0	47.7	538.6
100	20.1	19.1	44.3	537.6
200	18.0	27.6	39.8	536.5
250	17.3	31.1	38.3	535.3
300	16.8	34.3	37.1	536.1
500	15.2	45.3	33.8	535.6

Frequency (MHz)	PSNEXT (≥dB)	ELNEXT (≥dB)	PSELFEXT (≥dB)
1.00	72.3	67.8	64.8
4.00	63.3	55.8	52.8
8.00	48.8	49.7	46.7
10.00	57.3	47.8	44.8
16.00	54.2	43.7	40.7
20.00	52.8	41.8	38.8
25.00	51.3	39.8	36.8
31.25	49.9	37.9	34.9
62.25	45.4	31.9	28.9
100	42.3	27.8	24.9
200	37.8	21.8	18.8
250	36.3	19.8	16.8
300	35.1	18.3	15.3
500	31.8	13.8	10.8