

OD6A23L

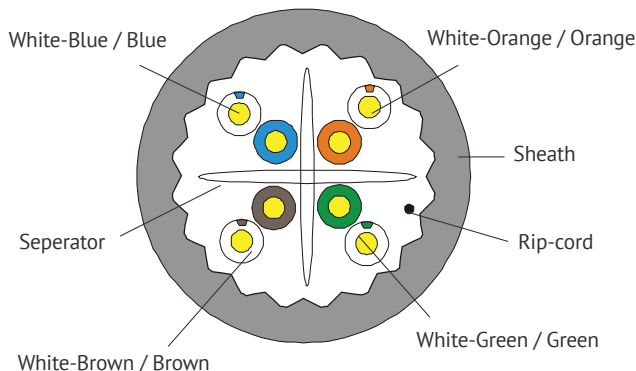
23AWG CAT6A U/UTP LSZH Network Cable

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 and IEEE 802.3at

Standards

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



Physical Characteristics

| | | |
|--|---|------------------------|
| Conductor | Material | Solid Bare Copper |
| | Conductor Diameter | 0.565mm (± 0.005) |
| Insulation | Material | HDPE |
| | Overall Diameter | 0.98mm (± 0.05) |
| Sheath | Thickness | 0.70mm (±0.05) |
| | 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 & Carton | |
| 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) Elongation (%) | ≥10.0 ≥125 |
| | Aging Period (°C×hrs) | 100°C×24h×7d |
| | After Aging Tensile Strength (Mpa) Elongation (%) | ≥8.0 ≥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 |

Technical Performance (100m)

| Frequency (MHz) | Return Loss (\geq dB) | Attenuation 20°C (\leq dB) | NEXT (\geq dB) | DELAY (\leq ns) |
|-----------------|--------------------------|-------------------------------|-------------------|--------------------|
| 1.00 | 20.0 | 2.1 | 74.3 | 570.0 |
| 4.00 | 23.0 | 3.8 | 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 | 536.3 |
| 300 | 16.8 | 34.3 | 37.1 | 536.1 |
| 500 | 15.2 | 45.3 | 33.8 | 535.6 |

| Frequency (MHz) | PSNEXT (\geq dB) | ELFEXT (\geq dB) | PSELFEXT (\geq 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 | |