

Category 6A (650MHz) F/UTP Cables, FR-LSZH

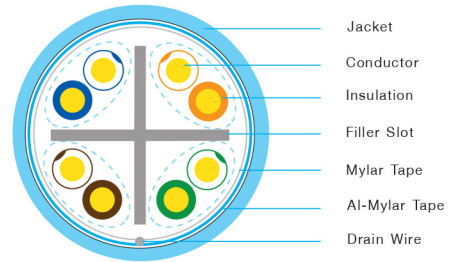


STANDARD

- ANSI/TIA-568.2-D Category 6A
- ISO/IEC 11801:2017 Class EA
- EN 50173-1 Category 6A
- IEC 61156-5 Category 6A
- EN 50288-10-1, IEC 60332-1-2
- UL Listed CM, CMR, CMP and LSZH
- 3P Verified to Category 6A
- UL E197771, RoHS Compliant

APPLICATION

- Structure cabling for horizontal and building backbone
- 10G BASE-T (IEEE 802.3an)
- 2.5G/5G BASE-T (IEEE 802.3bz)
- 10/100/1000 BASE-T (IEEE 802.3i/u/ab)
- IEEE 802.3af/at (PoE/PoE+)
- 52/155/622 Mbps and 1.2 Gbps ATM
- 4/16 Mbps Token Ring
- TP-PMD, TPDDI, ISDN, CDDI, VoIP
- HD BaseT 2.0 standard, Baseband, Broadband
- Digital & Analog for data, video and audio application



ELECTRICAL CHARACTERS

| | |
|--------------------------------|----------------------------|
| Impedance | : 100±5Ω, 1 MHz to 650 MHz |
| Mutual Capacitance | : 5.6 nFMax / 100m |
| Capacitance,Unbalance | : 160 pF Max / 100m |
| DC Resistance | : 6.65 ohm Max/100m |
| DC Resistance,Unbalance | : 4% Max. |
| Insulated Resistance | : 5000 MΩ/Km |
| Dielectric Strength | : 1kV/min |
| Propagation Delay | : 534 ns/100m Max @650MHz |
| Delay Skew | : 25 ns Max |

CONSTRUCTION / MATERIAL

| | |
|-------------------|---|
| Conductor | : 23AWG Solid Bare Copper |
| Insulation | CMR, LSZH : Foam/Skin HDPE CMP : Foam/Skin FEP |
| Mylar | : Mylar Tape |
| Drain Wire | : Tinned Copper |
| Shielded | : AL-Mylar Tape |
| Jacket | CMR : FR-PVC CMP : FR-PVC(Low Smoke) LSZH : FR-LSZH |

| FREQUENCY (MHZ) | INSERTION LOSS (dB/100m) | RL MIN.(dB) | NEXT MIN.(dB) | PS.NEXT MIN.(dB) | ACRF MIN.(dB) | PS ACRF MIN.(dB) | PS ANEXT MIN.(dB) | PS AACRF (dB/100m) |
|-----------------|--------------------------|-------------|---------------|------------------|---------------|------------------|-------------------|--------------------|
| 1.0 | 2.0 | 20.0 | 78.3 | 76.3 | 71.8 | 68.8 | 67.0 | 67.0 |
| 31.25 | 10.4 | 25.6 | 55.9 | 53.9 | 41.9 | 38.9 | 67.0 | 48.3 |
| 62.50 | 14.9 | 23.5 | 51.4 | 49.4 | 35.9 | 32.9 | 65.6 | 42.3 |
| 100.0 | 19.0 | 22.1 | 48.3 | 46.3 | 31.8 | 28.8 | 62.5 | 38.2 |
| 200.0 | 27.5 | 20.0 | 43.8 | 41.8 | 25.8 | 22.8 | 58.0 | 32.2 |
| 250.0 | 31.0 | 19.3 | 42.3 | 40.3 | 23.8 | 20.8 | 56.5 | 30.2 |
| 300.0 | 34.2 | 18.8 | 41.1 | 39.3 | 22.3 | 19.3 | 55.3 | 28.7 |
| 500.0 | 45.3 | 17.5 | 37.8 | 35.8 | 17.8 | 14.8 | 52.0 | 24.2 |
| 550.0 | 47.7 | 17.2 | 37.2 | 35.2 | - | - | - | - |
| 650.0 | 52.4 | 16.7 | 36.1 | 34.6 | - | - | - | - |

MECHANICAL PROPERTIES

Minimum Bending Radius

Installation : 8 X Cable Diameter
Operation : 4 X Cable Diameter

Tensile Strength

110 N (25lbf)

Ultimate Breaking Strength

>400N (90lbf)

Installation / Operating temperature

-20°C to 60°C

Storage Temperature

-20°C to 80°C

| Part No. | UL/NEC Flame Rating | Conductor | Jacket | Diameter (mm.) | Color | Packaging |
|-------------|---------------------|-------------------------|---------|----------------|-----------|-----------|
| US-9266LSZH | LSZH | 23AWG Solid Bare Copper | FR-LSZH | 7.6 | Aqua Blue | 305m/Reel |
| US-9266 | CMR | 23AWG Solid Bare Copper | FR-PVC | 7.6 | White | 305m/Reel |