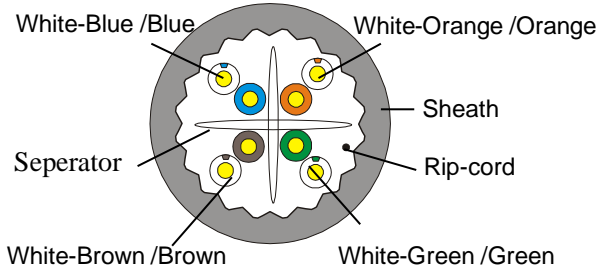


U/UTP 4Pairs cable-category 6A- LSZH Sheath

P/N:G2501-043

| Content of the Data Sheet | | | | | | | | | |
|--|---|------------------------|------------|------------|-------------------------------|------------|-----------|-------------|-----------|
| Sheath Printing | TBD | | | | | | | | |
| Customer No. | | Customer Reference | | | | | | | |
| Category | U/UTP CAT6A-4P- LSZH(Dca,s2,d2,a1) | | | | | | | | |
| Reference Standard | ISO/IEC11801、TIA-568-C.2 | | | | | | | | |
| Conductor | Material | Solid-Bare Copper | | | | | | | |
| | Nom.O.D.(mm) | 0.565 | up | +0.005 | down | -0.005 | | | |
| Insulation | Material | HDPE | | | | | | | |
| | Diameter | 1.02±0.05mm | | | | | | | |
| Sheath | Thickness | 0.70±0.05 mm (Avg.) | | | | | | | |
| | External O.D. | 7.1±0.4 mm | | | | | | | |
| | Surface | Clean, Frap, Satiation | | | | | | | |
| | Material | FR-LSZH(complies RoHS) | | | | | | | |
| | Color | TBD | | | | | | | |
| Surface Printing | Letter height | 3.0±0.3mm | | | | | | | |
| | Color | Black | | | | | | | |
| | Print error & Space | ≤±0.5%, 1m | | | | | | | |
| | | | | | | | | | |
| Core Color | 1 White- Blue /Blue | 2 White-Orange /Orange | | | | | | | |
| | 3 White-Green /Green | 4 White- Brown /Brown | | | | | | | |
| Packing | Wooden Tray & Carton | | | | | | | | |
| Carton dimension | According to the requires | | | | | | | | |
| Packing length | 305±1.5m | | | | | | | | |
| 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) 8xCable O.D., No visible cracks | | | | | | | | |
| Electrical Characteristics (20°C) | Impedance(Ω) | 1.0-250.0MHz | 100±15 | | | | | | |
| | | 250.0-500.0MHz | 100±22 | | | | | | |
| | 1.0-500.0MHz Delay Skew (ns/100m) | ≤45 | | | | | | | |
| | DC Resistance (Ω/100m) max | 9.38 | | | | | | | |
| | DC Conductor Resistance Unbalance (%) max | 5.0 | | | | | | | |
| Reaction to fire Classification: Dca,s2,d2,a1 | | | | | CPR Part no. G2501-023 | | | | |
| Version | A/01 | Date | 2017-08-25 | Revised By | Caihanglie | Audited By | Nidonghua | Approved By | Nidonghua |



| Technical Performance (100m): | | | | |
|-------------------------------|--------|---------|----------|-----------|
| Frequency (MHz) | RL ≥dB | ATT ≤dB | NEXT ≥dB | DELAY ≤ns |
| 1 | 20.0 | 2.1 | 74.3 | 570.0 |
| 4.0 | 23.0 | 3.8 | 65.3 | 552.0 |
| 8.0 | 24.5 | 5.3 | 60.8 | 546.7 |
| 10.0 | 25.0 | 5.9 | 59.3 | 545.4 |
| 16.0 | 25.0 | 7.5 | 56.2 | 543.0 |
| 20.0 | 25.0 | 8.4 | 54.8 | 542.1 |
| 25.0 | 24.3 | 9.4 | 53.3 | 541.2 |
| 31.25 | 23.6 | 10.5 | 51.9 | 540.4 |
| 62.5 | 21.5 | 15.0 | 47.4 | 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 ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
|-----------------|------------|------------|--------------|
| 1 | 72.3 | 67.8 | 64.8 |
| 4 | 63.3 | 55.8 | 52.8 |
| 8 | 58.8 | 49.7 | 46.7 |
| 10 | 57.3 | 47.8 | 44.8 |
| 16 | 54.2 | 43.7 | 40.7 |
| 20 | 52.8 | 41.8 | 38.8 |
| 25 | 51.3 | 39.8 | 36.8 |
| 31.25 | 49.9 | 37.9 | 34.9 |
| 62.5 | 45.4 | 31.9 | 28.9 |
| 100 | 42.3 | 27.8 | 24.8 |
| 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 |

