

# Technical specification/ Data sheet

## LAN cable: B/CAT6 FTP

|                       |                                     |                        |   |  |                                     |                               |      |
|-----------------------|-------------------------------------|------------------------|---|--|-------------------------------------|-------------------------------|------|
| Category              | CAT6 FTP                            |                        |   |  |                                     |                               |      |
| Test Standard         | ISO/IEC11801、TIA- 568-C.2、YD/T 1019 |                        |   |  |                                     |                               |      |
| Conductor             | Material                            | Solid Bare copper      |   |  |                                     |                               |      |
|                       | Nom.O.D.(mm)                        | 0.540                  | <table border="1"> <tr> <td>up</td> <td>+0.005</td> </tr> <tr> <td>down</td> <td>-0.005</td> </tr> </table> |  | up                                  | +0.005                        | down |
| up                    | +0.005                              |                        |   |  |                                     |                               |      |
| down                  | -0.005                              |                        |   |  |                                     |                               |      |
| Insulation            | Material                            | HDPE                   |   |  |                                     |                               |      |
|                       | Diameter                            | 1.09 ± 0.03 mm         |   |  |                                     |                               |      |
| Screening Material    | Aluminum Foil                       |                        |   |  |                                     |                               |      |
| Sheath                | Thickness                           | 0.60 ± 0.05mm          |   | Sheath Physical Properties                     | Before Aging Tensile Strength (Mpa) | ≥ 13.5                        |      |
|                       | External O.D.                       | 7.4 ± 0.4 mm           |   |  | Elongation(%)                       | ≥ 150                         |      |
|                       | Surface                             | Clean,Frap,Satiation   |   |  | Aging Period (°C×hrs)               | 100°C×24h×7d                  |      |
|                       | Material                            | PVC                    |   |  | After Aging Tensile Strength(Mpa)   | ≥ 12.5                        |      |
|                       | Color                               | Grey                   |   |  | Elongation(%)                       | ≥ 125                         |      |
| Surface Printing      | Letter height                       | 3.0 ± 0.3mm            |   | Electrical Characteristics (20°C)              | Cold bend(-20±2°C×4h)               | 8×Cable O.D No visible cracks |      |
|                       | Color                               | Black                  |   |  | 1.0-250.0MHz Impedance (Ω)          | 100 ± 15                      |      |
|                       | Print error & Space                 | ≤ ± 0.5%, 1m           |   |  | 1.0-250.0MHz Delay Shew (ns/100m)   | ≤ 45                          |      |
| Core Color            | 1 White- Blue /Blue                 | 2 White-Orange /Orange |   | NVP  | 69%                                 |                               |      |
|                       | 3 White- Green /Green               | 4 White- Brown /Brown  |   | capacitance (nf/100m) max                      | 5.6                                 |                               |      |
| Packing               | Wooden Tray & Carton                |                        |   | unbalanced-to-ground capacitance (pf/100m) max | 330                                 |                               |      |
| Wooden Tray dimension | According to the requires           |                        |   | DC Resistance (Ω/100m) max                     | 9.38                                |                               |      |
| Packing length        | 305 ± 1.5m                          |                        |   | DC Conductor Resistance Unbalance (%)max       | 5.0                                 |                               |      |
| Rip-cord              | Yes                                 | Drain wire             | Yes   |  |                                     |                               |      |

  

| Technical Performance (100m): |        |               |          |                 |                 |            |            |              |
|-------------------------------|--------|---------------|----------|-----------------|-----------------|------------|------------|--------------|
| Frequency (MHz)               | RL ≥dB | ATT(20°C) ≤dB | NEXT ≥dB | PHASE DELAY ≤ns | Frequency (MHz) | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
| 1                             | 20.0   | 2.03          | 74.3     | 570.00          | 1               | 72.3       | 67.8       | 64.8         |
| 4.0                           | 23.0   | 3.78          | 65.3     | 552.00          | 4               | 63.3       | 55.8       | 52.8         |
| 8.0                           | 24.5   | 5.32          | 60.8     | 546.73          | 8               | 58.8       | 49.7       | 46.7         |
| 10.0                          | 25.0   | 5.95          | 59.3     | 545.38          | 10              | 57.3       | 47.8       | 44.8         |
| 16.0                          | 25.0   | 7.55          | 56.2     | 543.00          | 16              | 54.2       | 43.7       | 40.7         |
| 20.0                          | 25.0   | 8.47          | 54.8     | 542.05          | 20              | 52.8       | 41.8       | 38.8         |
| 25.0                          | 24.3   | 9.51          | 53.3     | 541.20          | 25              | 41.3       | 39.8       | 36.8         |
| 31.25                         | 23.6   | 10.67         | 51.9     | 540.44          | 31.25           | 49.9       | 37.9       | 34.9         |
| 62.5                          | 21.5   | 15.38         | 47.7     | 538.55          | 62.5            | 45.4       | 31.9       | 28.9         |
| 100                           | 20.1   | 19.80         | 44.3     | 537.60          | 100             | 42.3       | 27.8       | 24.8         |
| 200                           | 18.0   | 28.98         | 39.8     | 536.54          | 200             | 37.8       | 21.8       | 18.8         |
| 250                           | 17.3   | 32.85         | 38.3     | 536.27          | 250             | 36.3       | 19.8       | 16.8         |