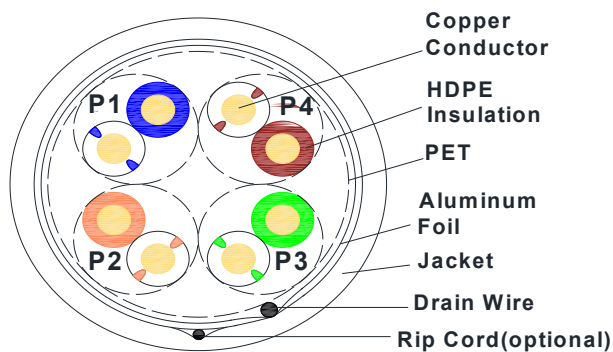


| PRODUCT DATA SHEET |                    |                            |                   |
|--------------------|--------------------|----------------------------|-------------------|
| Type               |                    | F/UTP CAT5E 4*2*25AWG LDPE |                   |
| Structure          |                    | Structure A                |                   |
| Conductors         | Structure AWG      | AWG                        | 25# (1/25)        |
|                    | Material           | ----                       | Solid Bare Copper |
|                    | Diameter           | mm                         | Ø0.48+/-0.01      |
| Insulation         | Material           | ----                       | HDPE              |
|                    | Diameter           | mm                         | Ø0.98+/-0.05      |
|                    | Average Thickness  | mm                         | 0.25+/-0.05       |
| Shielding1         | Type               | ----                       | ----              |
| Cabling            | Direction          | ----                       | S                 |
|                    | No. of Insulations | Pair                       | 4                 |
| Shielding2         | Material           | ----                       | Al-Foil Screened  |
| Drain wire         | Material           | ----                       | 26AWG TC          |
| Jacket             | Material           | ----                       | LDPE              |
|                    | Diameter           | mm                         | Ø6.0+/-0.3        |
|                    | Average Thickness  | mm                         | 0.55+/-0.1        |
|                    | Flame Rate         | ----                       | ----              |

Construction:



**core:**

P1: White-Blue/Blue  
P2: White-Orange/Orange  
P3: White-Green/Green  
P4: White-Brown/Brown

| Mechanical Characteristics                                                              |            |                                    |            |              |              |                |               |                 |
|-----------------------------------------------------------------------------------------|------------|------------------------------------|------------|--------------|--------------|----------------|---------------|-----------------|
| 1、 Maximum Pulling Force                                                                |            | ≤100N                              |            |              |              |                |               |                 |
| 2、 Conductor elongation                                                                 |            | ≥15%                               |            |              |              |                |               |                 |
| 3、 Jacket before Aging                                                                  |            |                                    |            |              |              |                |               |                 |
| Tensile Strength                                                                        |            | ≥9.7Mpa                            |            |              |              |                |               |                 |
| Elongation                                                                              |            | ≥350%                              |            |              |              |                |               |                 |
| 4、 Jacket After Aging(100℃、 24×2h)                                                      |            |                                    |            |              |              |                |               |                 |
| Tensile Strength                                                                        |            | ≥75%×Tensile Strength before Aging |            |              |              |                |               |                 |
| Elongation                                                                              |            | ≥75%×Elongation before Aging       |            |              |              |                |               |                 |
| Electrical Characteristics                                                              |            |                                    |            |              |              |                |               |                 |
| 1.Impedance:                                                                            |            | 4-100MHz 100±15 (Ohms)             |            |              |              |                |               |                 |
| 2.Rated Temperature:                                                                    |            | 75℃                                |            |              |              |                |               |                 |
| 3.DC Resistance Unbalance(%):                                                           |            | Max 5                              |            |              |              |                |               |                 |
| 4.DC Resistance 20℃:                                                                    |            | ≤117 ( Ohms/Km)                    |            |              |              |                |               |                 |
| 5.Pair-to-Ground Capacitance Unbalance:                                                 |            | ≤330(pF/100M)                      |            |              |              |                |               |                 |
| 6、 Insulation Resistance:                                                               |            | >5000MΩ.Km                         |            |              |              |                |               |                 |
| 7、 Dielectric strength:                                                                 |            | DC 2500V 2S                        |            |              |              |                |               |                 |
| Nominal Transmission Characteristics                                                    |            |                                    |            |              |              |                |               |                 |
| Frequence                                                                               | Min.<br>RL | Max.<br>IL *                       | Max.<br>PD | Max.<br>SKEW | Min.<br>NEXT | Min.<br>PSNEXT | Min.<br>ACR-F | Min.<br>PSACR-F |
| (MHz)                                                                                   | (dB/100M)  | (dB/100M)                          | (ns/100M)  | (ns/100M)    | (dB/100M)    | (dB/100M)      | (dB/100M)     | (dB/100M)       |
| 4                                                                                       | 23.0       | 4.1                                | 552.0      | 45.0         | 56.3         | 53.3           | 51.8          | 48.8            |
| 8                                                                                       | 24.5       | 5.8                                | 547.0      | 45.0         | 51.8         | 48.8           | 45.7          | 42.7            |
| 10                                                                                      | 25.0       | 6.5                                | 545.4      | 45.0         | 50.3         | 47.3           | 43.8          | 40.8            |
| 16                                                                                      | 25.0       | 8.2                                | 543.0      | 45.0         | 47.2         | 44.2           | 39.7          | 36.7            |
| 20                                                                                      | 25.0       | 9.3                                | 542.1      | 45.0         | 45.8         | 42.8           | 37.8          | 34.8            |
| 25                                                                                      | 25.0       | 10.4                               | 541.0      | 45.0         | 44.3         | 41.3           | 35.8          | 32.8            |
| 31.25                                                                                   | 23.6       | 11.7                               | 540.4      | 45.0         | 42.9         | 39.9           | 33.9          | 30.9            |
| 62.5                                                                                    | 21.5       | 17.0                               | 538.6      | 45.0         | 38.4         | 35.4           | 27.9          | 24.9            |
| 100                                                                                     | 20.1       | 22.0                               | 537.6      | 45.0         | 35.3         | 32.3           | 23.8          | 20.8            |
| Note:The above transmission performance for the 100M, 20±2℃ under the conditions tested |            |                                    |            |              |              |                |               |                 |
| *Allowable deviation of -30% to +30%                                                    |            |                                    |            |              |              |                |               |                 |