

# CAT6 UTP CABLE PVC

| Test Standard   |   | ANSI/TIA-568-C.2、ISO/IEC 11801 |              |                      |                 |           |           |
|---|---|--------------------------------|--------------|----------------------|-----------------|-----------|-----------|
| Construction  |   |                                |              |                      |                 |           |           |
| Conductor   | Material  | Solid Bare Copper              |              |                      |                 |           |           |
|   | Diameter (mm)   | 23AWG,                         |              |                      |                 |           |           |
| Insulation  | Material  | HDPE                           |              |                      |                 |           |           |
|   | Diameter (mm)   | 0.98±0.05                      |              |                      |                 |           |           |
| Core color  | 1.white-blue/blue   | 2.white-orange/oran            |              |                      |                 |           |           |
|   | 3.white-green/green   | 4.white-brown/brow             |              |                      |                 |           |           |
| Rip cord  | 210D*3  |                                |              |                      |                 |           |           |
| Seperator   | Yes   |                                |              |                      |                 |           |           |
| Sheath  | Material  | PVC                            |              |                      |                 |           |           |
|   | Thickness (mm)  | 0.6±0.1                        |              |                      |                 |           |           |
|   | Diameter (mm)   | 6.2±0.5                        |              |                      |                 |           |           |
|   | Color   | Grey                           |              |                      |                 |           |           |
| Surface printing  | Letter high   | 3.0 ± 0.5mm                    |              | Nom weight           | 12.0 kg/305m    |           |           |
|   | Color   | Black                          |              | Package: Reel in box | Package Length: |           |           |
|   | Print error & Space   | ≤± 0.5% , 1m                   |              | Box Dimensions (mm)  | 430*230*430     |           |           |
| Electrical Properties                                   |   |                                |              |                      |                 |           |           |
| Conductor Resistance (20°C)                             |   |                                |              | ≤8.5 Ω/ 100m         |                 |           |           |
| Electrical Resistance Unbalance ( 20°C)                 |   |                                |              | ≤2.0%                |                 |           |           |
| Insulation Resistance                                   |   |                                |              | >5000 MΩ·km          |                 |           |           |
| Pair to Ground Capacitance Unbalance ( 0.8 KHz or 1KHz) |   |                                |              | ≤160pF/100m          |                 |           |           |
| Transmission Properties                                 |   |                                |              |                      |                 |           |           |
| Feq   | Zc  | IL                             | RL           | NEXT                 | PS NEXT         | ELFEXT    | PS ELFEXT |
| MHZ   | Ω   | dB/100m                        | dB           | dB/100m              | dB/100m         | dB/100m   | dB/100m   |
| 1.0   | 100±15  | ≤2.0                           | ≥20.0        | ≥74.3                | ≥72.3           | ≥67.8     | ≥64.8     |
| 4.0   |   | ≤3.8                           | ≥23.0        | ≥65.3                | ≥63.3           | ≥55.8     | ≥52.8     |
| 8.0   |   | ≤5.3                           | ≥24.5        | ≥60.8                | ≥58.8           | ≥49.7     | ≥46.7     |
| 10.0  |   | ≤6.0                           | ≥25.0        | ≥59.3                | ≥57.3           | ≥47.8     | ≥44.8     |
| 16.0  |   | ≤7.6                           | ≥25.0        | ≥56.2                | ≥54.2           | ≥43.7     | ≥40.7     |
| 20.0  |   | ≤8.5                           | ≥25.0        | ≥54.8                | ≥52.8           | ≥41.8     | ≥38.8     |
| 25.0  |   | ≤9.5                           | ≥24.3        | ≥53.3                | ≥51.3           | ≥39.8     | ≥36.8     |
| 31.25   |   | ≤10.7                          | ≥23.6        | ≥51.9                | ≥49.9           | ≥37.9     | ≥34.9     |
| 62.5  |   | ≤15.4                          | ≥21.5        | ≥47.4                | ≥45.4           | ≥31.9     | ≥28.9     |
| 100   |   | ≤19.8                          | ≥20.1        | ≥44.3                | ≥42.3           | ≥27.8     | ≥24.8     |
| 200   |   | ≤29.0                          | ≥18.0        | ≥39.8                | ≥37.8           | ≥21.8     | ≥18.8     |
| 250   |   | ≤32.8                          | ≥17.3        | ≥38.3                | ≥36.3           | ≥19.8     | ≥16.8     |
| Environment Temperature                                 |   |                                |              |                      |                 |           |           |
| Store   | -10~+50°C   |                                | Installation | -5~+40               | Work            | -20 ~ +60 |           |
| <b>Part No.</b>   | <b>IB-CAT6U-XX (XX = Color, BL=-BLUE, WH=WHITE, YL=YELLOW, PL=PURPLE)</b> |                                |              |                      |                 |           |           |

