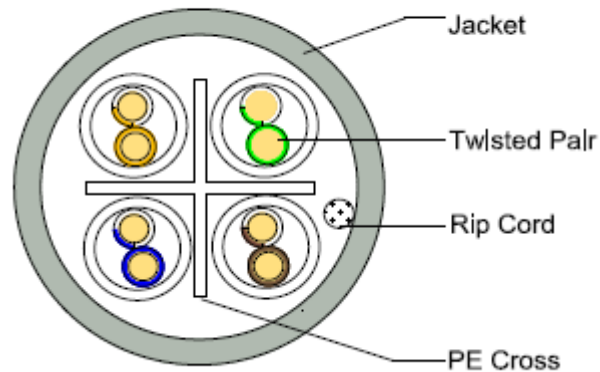


CAT6 UTP 23AWG 4PAIR PVC



Standards

- ANSI/TIA-568-C.2 IEC 61156-5
- EN 50288-6-1
- EN 50173
- ISO/IEC 11801
- EN 50575

Applications

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps TOKEN RING (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)

Color codes

- Insulation Color:
 - P1: White & Blue / Blue
 - P2: White & Orange / Orange
 - P3: White & Green / Green
 - P4: White & Brown / Brown
- Jacket Color: Optional

Cable Printing

- Customized

Packaging

1. Easy Pull Box/ 305m
2. Reel/ 305m
3. Reel/ 500m

Test Requirments

- Pass fluke 90m permanent link test
- TIA-568-C.2

Cable Parameters

| | | |
|------------------------------|--------------------------|--------------------------|
| Conductor Material | | 99.99% Solid Bare Copper |
| Conductor Number | | 8C(4 pairs) |
| Cable AWG | | 23 |
| Construction(± 0.01 mm) | | 1/0.57 |
| Separator | | PE Cross |
| Rip Cord | | Yes |
| Insulation | Material | PE |
| | Nom. Thickness(mm) | 0.22 |
| | Diameter(± 0.08 mm) | 1.03 |
| Jacket | Material | PVC |
| | Nom. Thickness(mm) | 0.50 |
| | Diameter(± 0.30 mm) | 6.30 |

Electrical Performance

| | | |
|---|-----------------------|--------------------------------|
| Max. Conductor DC Resistance (Ω /km) | | 93 |
| Min. Insulation Resistance (Ω M-KM) | | 500 |
| Dielectric Strength | | DC-1KV/1 Min |
| 1.0-250MHZ Characteristic Impedance(ohms) | | 100 Ω \pm 15 Ω |
| 1.0-250MHZ Delay Skew(ns/100m) | | ≤ 45 |
| Pair to Ground Capacitance Unbalance(Pf/100m) | | ≤ 330 |
| Resistance Unbalance(%) | | ≤ 4 |
| Max Mutual Capacitance | | 5.6nF/100m |
| Max DC Loop Resistance | | 19.2 Ω /100m |
| Before Aging | Tensile Strength(Mpa) | ≥ 13.5 |
| | Elongation(%) | ≥ 100 |
| After Aging 100°C*24h*7d | Tensile Strength(Mpa) | ≥ 75 |
| | Elongation(%) | ≥ 50 |
| Velocity of Propagation NVP | | 69% |

TIA-568-C.2

| Freq. (MHz) | ATTN (dB/100m) | RL (dB) | NEXT (dB) | ELFEXT (dB/100m) | PS (dB/100m) | NEXT (dB/100m) |
|----------------|-------------------|------------|--------------|---------------------|-----------------|-------------------|
| 1 | 2.0 | 20.0 | 74.3 | 67.8 | 72.3 | 64.8 |
| 4 | 3.8 | 23.0 | 65.3 | 55.8 | 63.3 | 52.8 |
| 8 | 5.3 | 24.5 | 60.8 | 49.7 | 58.8 | 46.7 |
| 10 | 6.0 | 25.0 | 59.3 | 47.8 | 57.3 | 44.8 |
| 16 | 7.6 | 25.0 | 56.2 | 43.7 | 54.2 | 40.7 |
| 20 | 8.5 | 25.0 | 54.8 | 41.8 | 52.8 | 38.8 |
| 25 | 9.5 | 24.3 | 53.3 | 39.8 | 51.3 | 36.8 |
| 31.25 | 10.7 | 23.6 | 51.9 | 37.9 | 49.9 | 34.9 |
| 62.5 | 15.4 | 21.5 | 47.4 | 31.9 | 45.4 | 28.9 |
| 100 | 19.8 | 20.1 | 44.3 | 27.8 | 42.3 | 24.8 |
| 200 | 29.0 | 18.0 | 39.8 | 21.8 | 37.8 | 18.8 |
| 250 | 32.8 | 17.3 | 38.3 | 19.8 | 36.3 | 16.8 |

TIA Cat 6 Perm. Link

| Wire Map | Res. | Length | Prop. Delay | Delay Skew | Freq. | Insertion Loss | NEXT | RL | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACR-F |
|-----------|----------|--------|-------------|------------|-------|----------------|------|------|-------|-------|---------|----------|----------|
| | Ω | Max. | nS | nS | MHz | dB | dB | dB | dB | dB | dB | dB | dB |
| 12345678 | i | 90 m | 498 | 44 | 1 | 3 | 65.0 | 19.1 | 62.0 | 64.2 | 62.0 | 59.0 | 61.2 |
| 12345678 | | | | | 4 | 3.5 | 64.1 | 21.0 | 60.6 | 52.1 | 61.8 | 58.3 | 49.1 |
| | | | | | 8 | 5 | 59.4 | 21.0 | 54.4 | 46.1 | 57.0 | 52.1 | 43.1 |
| 12345678S | | | | | 10 | 5.5 | 57.8 | 21.0 | 52.3 | 44.2 | 55.5 | 49.9 | 41.2 |
| 12345678S | | | | | 16 | 7 | 54.6 | 20.0 | 47.6 | 40.1 | 52.2 | 45.2 | 37.1 |
| | | | | | 20 | 7.9 | 53.1 | 19.5 | 45.2 | 38.2 | 50.7 | 42.8 | 35.2 |
| | | | | | 25 | 8.9 | 51.5 | 19.0 | 42.7 | 36.2 | 49.1 | 40.2 | 33.2 |
| | | | | | 31.25 | 10 | 50.0 | 18.5 | 40.0 | 34.3 | 47.5 | 37.6 | 31.3 |
| | | | | | 62.5 | 14.4 | 45.1 | 16.0 | 30.8 | 28.3 | 42.7 | 28.3 | 25.3 |
| | | | | | 100 | 18.6 | 41.8 | 14.0 | 23.3 | 24.2 | 39.3 | 20.7 | 21.2 |
| | | | | | 200 | 27.4 | 36.9 | 11.0 | 9.6 | 18.2 | 34.3 | 7.0 | 15.2 |
| | | | | | 250 | 31.1 | 35.3 | 10.0 | 4.2 | 16.2 | 32.7 | 1.6 | 13.2 |

For More Information:

Email: sales@telex.cn
www.telex.cn