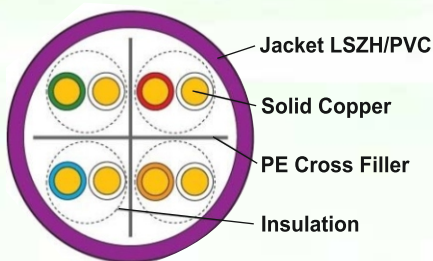


High Quality Cat6 UTP 24 AWG Cable

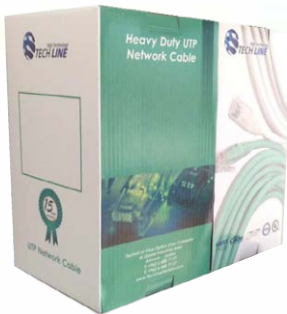


Description:

TechLine CAT6 UTPCopper Solid cable transmits data over local area Networks (LANs). These cables exceed performance requirements.

Application:

As streaming video and multimedia over LAN are gaining popularity, users demand faster data transmission and reduced waiting time. The superior insulation around the 24 AWG copper wires attribute to the increased performance. These cables are used in the tertiary, but also in the secondary level of a network. They are characterized by large performance reserves and outstanding performance. They can be used to implement services such as GigabitEthernet. They can transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 250 MHz and suitable for 10BASET, 100BASETX Fast Ethernet and 1000BASET/1000BASETX (Gigabit Ethernet). Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250MHz, The mechanical characteristics are perfectly suited for the application in tight cable channels and platforms due to their optimized construction.



Standard:

TIA/EIA 568-B.2-1 and ISO/IEC 11801, UL 444, Flame retardant to IEC60332-1, Smoke density acc.to IEC61034, HalogenFree acc. To IEC607542.

Construction Characteristics:

| | | |
|------------|----------------|---------------------|
| Conductor | Material | Solid Bare Copper |
| | Size | 24AWG X 4P |
| | Construction | 1/0.51 +/- 0.010 |
| Insulation | Material | HDPE |
| | Min. Thickness | 0.180 mm |
| | AVG. Thickness | 0.220mm |
| | Diameter | 0.94+/- 0.05 |
| | Colors | Blue- White/Blue |
| | | Orange-White/Orange |
| | | Green- White/Green |
| | | Brown – White/Brown |
| Jacket | Material | PVC / LSZH |
| | Min. Thickness | 0.55mm |
| | AVG. Thickness | 0.60mm |
| | Diameter | 5.9 +/- 0.20 |
| | Rip Cord | Nylon |
| Filler | Color | Per request |
| | Filler | PVC / MDPE |

Electrical & Physical Characteristics:

| | |
|--------------------------------------|-------------------------|
| Operating Temperature Range | -20C + 75 C |
| Conductor Resistance | Max 93.8 ohm/km at 20 C |
| Dielectric Strength | Min AC 17KV |
| Spark Test | 2.0KV (max) |
| DC Resistance Unbalance | Max 5 % |
| Pair-to-Ground Capacitance Unbalance | Max 3300pF/km |
| Characteristic Impedance | 100 +/- 15 Ohm |
| Nominal Velocity of Propagation (%) | 69 |
| Propagation Delay | Max 536ns/100m |
| Delay Skew | Max 45ns/100m |

Characteristics per 100m @ 20 °C – 3 °C (68 °F – 5.5°F).

| Frequency (MHz) | Insertion Loss (dB/100m) | RL (dB) | NEXT (dB) | PSNEXT (dB) | ELFEXT (dB) | PSSELFEXT (dB) | ACR (dB) | PSACR (dB) |
|-----------------|--------------------------|---------|-----------|-------------|-------------|----------------|----------|------------|
| 1 | 2.0 | 19.0 | 74.3 | 72.3 | 67.8 | 64.8 | 72.3 | 70.3 |
| 4 | 3.8 | 19.0 | 65.3 | 63.3 | 55.8 | 52.8 | 61.5 | 59.5 |
| 8 | 5.3 | 19.0 | 60.8 | 58.8 | 49.7 | 46.7 | 55.5 | 53.5 |
| 10 | 6.0 | 19.0 | 59.3 | 57.3 | 47.8 | 44.8 | 53.3 | 51.3 |
| 16 | 7.6 | 18.0 | 56.2 | 54.2 | 43.7 | 40.7 | 48.6 | 46.6 |
| 20 | 9.4 | 17.5 | 54.8 | 52.8 | 41.8 | 38.8 | 46.3 | 44.3 |
| 25 | 11.4 | 17.0 | 53.3 | 51.3 | 39.8 | 36.8 | 43.8 | 41.8 |
| 31.25 | 10.7 | 16.5 | 51.9 | 49.9 | 37.9 | 34.9 | 41.2 | 39.2 |
| 62.5 | 15.4 | 14.0 | 47.4 | 45.4 | 31.9 | 28.9 | 32.0 | 30.0 |
| 100 | 19.8 | 12.0 | 44.3 | 42.3 | 27.8 | 24.8 | 24.5 | 22.5 |
| 200 | 30.0 | 11.0 | 39.8 | 37.8 | 21.8 | 18.8 | 10.8 | 8.8 |
| 250 | 33.8 | 10.0 | 38.3 | 36.3 | 19.8 | 16.8 | 5.5 | 3.5 |

High Quality Cat6 UTP 24 AWG Cable

PATCH CORD: SPECIFICATION INTRODUCTION

- 4 Pairs Unshielded Stranded Twisted Pair (UTP) Cable
- Conductor Metal: Bare Copper
- Conductor: 24 AWG
- Insulation Material: HD-PE
- Jacket Material: PVC / LSZH
- Heat-resistant: 60°C minimum (Temperature limited)



APPLICATION

These cables exceed performance requirements specified by

UL 444, TIA/EIA 568-B.2-1 and ISO/IEC 11801

- 10BASE-T, 100BASE-TX Fast Ethernet, 1000BASE-T (IEEE802.3)
- 100VG-AnyLAN (IEEE802.12)
- 550 MHz Broadband Video
- Voice, T1, ISDN
- 155/ 622 Mbps ATM
- Power over Ethernet (POE)

MODULAR CONNECTOR/PLUG

- RJ-45 8P for Transparence color
- Gold plated: 30U"
- Contact blade: Phosphor Bronze
- Temperature range: -10 ~ 80° C
- Dielectric withstanding voltage: 500V AC
- Insulation resistance: 35M Ohm (max.)
- Durability: 750 matching cycles
- Cable-to-plug tensile strength: 20lbs (89N) (min.)

ORDERING INFORMATION:

TLC6U- X1-X2-X3

| | |
|----------|-------------------|
| C | <i>Cable</i> |
| P | <i>Patch cord</i> |

| | | | | | |
|----------|---------------|----------|------------------|-----------|---------------|
| G | <i>Grey</i> | R | <i>Red</i> | Br | <i>Brown</i> |
| B | <i>Blue</i> | A | <i>Aqua</i> | Wh | <i>White</i> |
| Y | <i>Yellow</i> | G | <i>Green</i> | Bl | <i>Black</i> |
| O | <i>Orange</i> | N | <i>Navy Blue</i> | Cu | <i>Custom</i> |
| P | <i>Pink</i> | V | <i>Violet</i> | | |

| |
|-------------------------------------|
| Length |
| please specify a number in meter |

Note: Cable reel comes in a standard length of 305m or 500m