

Category 6A UTP Patch Cable, 24AWG×4P, PVC 50102152

PRODUCT DESCRIPTION

• Cable Specifications:

CAT6A UTP 4 X 1P[24AWG(7/0.195mm±0.008mm BC)]+CROSS
CM PVC JACKET OD: 6.0±0.20mm

• Standard Reference:

- All Category 6A Requirements as Per ANSI/TIA, ISO/IEC, and CENELEC EN Standards
- ANSI/TIA-5682-D Cat.6A
- ISO/IEC 3rd Edition 11801 Class Ea
- We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2011/65/EU

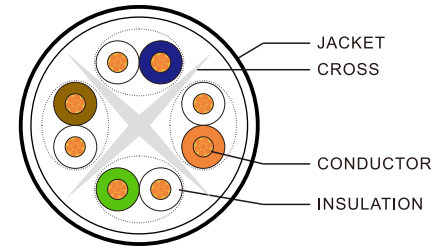
• Physical characteristic

- Rated temperature: 75°C
- Installation temperature: -20-60°C
- Operating temperature: -20-75°C
- Min bending radius:15xOD in Operation:10xOD after operation

• Application

- 1000BASE-T Gigabit Ethernet
- 10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
- 100 VG - AnyLAN(IEEE802.12)
- 500MHz Broadband Video Voice, T1, ISDN

Cable Cross-Section Structure



CABLE CONSTRUCTION

| | | |
|-----------------|---|--|
| Conductor | Material | Stranded Bare Copper |
| | Nom.O.D (mm) | 7/0.195±0.008mm 24AWGx4P |
| Insulation HDPE | Average Thickness(mm) | 0.2 |
| | Insulation Dia.(±0.05mm) | 0.96 |
| | Unaged Elongation | Min. 300% |
| | Unaged Tensile Strength | Min.1.683 Kg/mm ² |
| Code Color | 1 Blue/Blue*White | 2 Orange/Orange*White |
| | 3 Green/Green*White | 4 Brown/Brown*White |
| The cross - PE | 0.3*4.20mm (±0.05mm/±0.1mm) | |
| Jacket CM PVC | Average Thickness (mm) | 0.6 |
| | Outer Dia.(±0.20mm) | 6.0 |
| | Unaged Elongation | Min. 100% |
| | Unaged Tensile Strength | Min.1.407 Kg/mm ² |
| | Aging at 100°C for 168Hrs | Min. elongation retention:50% Min. tensile strength retention:75% |
| Marking | YFC CAT6A UTP 10 GIGABIT ETHERNET PATCH CABLE ISO/IEC 11801 & EN 50288 & ANSI/TIA-568.2-D & IEC 332.1 ▲ 24AWGX4P TYPE CM(UL) E164469-B3 | |

CHARACTERISTICS

| | |
|-----------------------------------|---------------------------|
| Dielectric Strength of Insulation | 1500 V dc / 1 minute |
| Insulation Resistance Test | Min. 5000 MΩ·Km |
| Conductor Resistance | Max. 11.25 Ω/100m at 20°C |
| Resistance Unbalance | Max. 2% |
| Capacitance Unbalance | Max. 220 pF/100m |

TECHNICAL PERFORMANCE

TIA Cat 6A Channel Test

| Frequency (MHZ) | Insertion Loss | RL Min (dB) | NEXT Min (dB) |
|-----------------|----------------|-------------|---------------|
| 1 | 3.0 | 19.0 | 65.0 |
| 4 | 4.2 | 19.0 | 63.0 |
| 8 | 5.8 | 19.0 | 58.2 |
| 10 | 6.5 | 19.0 | 56.6 |
| 16 | 8.2 | 18.0 | 53.2 |
| 20 | 9.2 | 17.5 | 51.6 |
| 25 | 10.2 | 17.0 | 50.0 |
| 31.25 | 11.5 | 16.5 | 48.4 |
| 62.25 | 16.4 | 14.0 | 43.4 |
| 100 | 20.9 | 12.0 | 39.9 |
| 200 | 30.1 | 9.0 | 34.8 |
| 250 | 33.9 | 8.0 | 33.1 |
| 350 | 40.6 | 6.6 | 30.3 |
| 450 | 46.5 | 6.0 | 27.3 |
| 500 | 49.3 | 6.0 | 26.1 |

| Frequency (MHZ) | PS NEXT Min(dB) | ELFEXT Min(dB) | PSELFEXT Min(dB) | Impedance (Ohms) |
|-----------------|-----------------|----------------|------------------|------------------|
| 1 | 62.0 | 63.3 | 60.3 | 100±15 |
| 4 | 60.5 | 51.2 | 48.2 | |
| 8 | 55.6 | 45.2 | 42.2 | |
| 10 | 54.0 | 43.3 | 40.3 | |
| 16 | 50.6 | 39.2 | 36.2 | |
| 20 | 49.0 | 37.2 | 34.2 | |
| 25 | 47.3 | 35.3 | 32.3 | |
| 31.25 | 45.7 | 33.4 | 30.4 | |
| 62.25 | 40.6 | 27.3 | 24.3 | |
| 100 | 37.1 | 23.3 | 20.3 | |
| 200 | 31.9 | 17.2 | 14.2 | |
| 250 | 30.2 | 15.3 | 12.3 | |
| 350 | 27.3 | 12.4 | 9.4 | |
| 450 | 24.4 | 10.2 | 7.2 | |
| 500 | 23.2 | 9.3 | 6.3 | |