# Product Specification

# Category 5e FTP Patch Cable, 26AWG×4P, PVC

## STANDARD COMPLIANCES

All Proposed Category 5e requirements as per ANSI/TIA, ISO/IEC, and CENELEC EN Standards:
ANSI/TIA-568-C.2 CAT.5e
ISO/IEC 2nd Edition 11801 CLASS D
IEC 61156-6,CENELEC EN 50288-2-2 for patch cable
Flame Retardancy is verified according to IEC 60332-1-2
We Implemented RoHS Compliance for the Requirement of European Union Issued Directive 2002/95/EC

## CONSTRUCTION & CHARACTERISTICS

| | | |
|---|---|---|
| Conductor | Material / Size | Bare Copper / 26AWG |
| Insulation | Material | HDPE |
| | Thickness | Nominal: 0.22 mm |
| | Diameter | Nominal: 0.92 mm |
| | Colors | Blue/White-Blue Orange/White-Orange |
| | | Green/White-Green Brown/White-Brown |
| | Unaged Elongation | Min. 300% |
| | Unaged Tensile Strength | Min. 1.683 Kgf/mm² |
| Screen | Material | Aluminum-Mylar tape and tinned copper drain wire |
| Jacket | Material | PVC |
| | Thickness | Nominal: 0.5 mm |
| | Diameter | Nominal: 5.6 mm |
| | Color | Assorted upon request |
| | Unaged Elongation | Min. 100% |
| | Unaged Tensile Strength | Min. 1.407 Kgf/mm² |
| | Aging at 100℃ for 168Hrs | Min. elongation retention: 50% |
| | | Min. tensile strength retention: 75% |
| Marking | | CAT.5E FTP PATCH 3P VERIFIED TO ANSI/TIA-568-C.2 & ISO/IEC 11801 ED.2 & EN 50288-2-2 & IEC 60332-1-2 26AWGX4P CM(UL) c(UL) E164469-XX |
| | | or as customer request. |
| Flame Test | | Burning five times, every time is less than 60 seconds and paper flag can't be burned. |

## APPROVALS

UL/cUL Listed
3P Certified ANSI/TIA-568-C.2 Category 5e testing performance requirements.

## APPLICATIONS

1000BASE-T Gigabit Ethernet
10BASE-T, 100BASE-TX Fast Ethernet (IEEE 802.3)
550MHz Broadband Video
100 VG – AnyLAN (IEEE802.12), 155/622 Mbps ATM
Voice, T1, ISDN

## ELECTRICAL PERFORMANCES

| | | | | |
|---|---|---|---|---|
| Dielectric Strength of Insulation | | 2500 V dc / 2 seconds | | |
| Insulation Resistance Test | | Min. 5000 MΩ·Km | | |
| Conductor Resistance | | Max. 9.38 Ω/100m at 20℃ | | |
| Resistance Unbalance | | Max. 2% | | |
| Capacitance Unbalance | | Max. 160 pF/100m | | |
| Mutual Capacitance | | Max. 5600 pF/100m | | |
| Impedance | 772kHz | 102Ω ± 15% | | |
| | 1~125MHz | 100Ω ± 15% | | |
| Attenuation & Near End Cross Talk | Frequency | Max.Attenuation | NEXT | PSNEXT |
| | (MHz) | (dB/100 meters) | (dB), Min. | (dB), Min. |
| | 1 MHz | 2.4* | 65.3* | 62.3* |
| | 4 MHz | 4.9* | 56.3* | 53.3* |
| | 8 MHz | 6.9* | 51.8* | 48.8* |
| | 10 MHz | 7.8* | 50.3* | 47.3* |
| | 16 MHz | 9.9* | 47.2* | 44.2* |
| | 20 MHz | 11.1* | 45.8* | 42.8* |
| | 25 MHz | 12.5* | 44.3* | 41.3* |
| | 31.25 MHz | 14.1* | 42.9* | 39.9* |
| | 62.5 MHz | 20.4* | 38.4* | 35.4* |
| | 100 MHz | 26.4* | 35.3* | 32.3* |
| | 125 MHz | 29.8* | 33.8* | 30.8* |

The asterisked (*) value are for information only. The minimum Next coupling loss for any pair combination at room temperature is to be greater than the value determined using the formula:

*NEXT(f MHZ) ≧ NEXT(0.772)-15LOG10(f MHZ/0.772)dB*

## CONFIGURATION

| | |
|---|---|
| orange 2<br>white/orange | green 3<br>white/green |
| blue 1<br>white/blue | brown 4<br>white/brown |