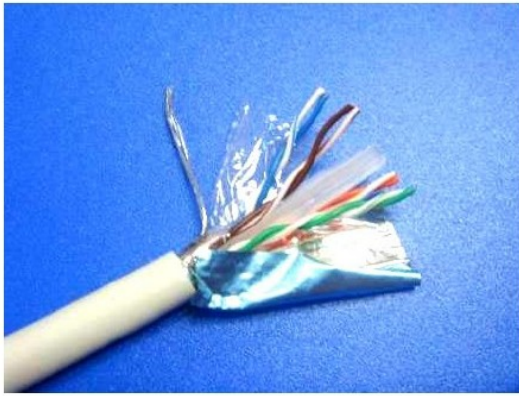


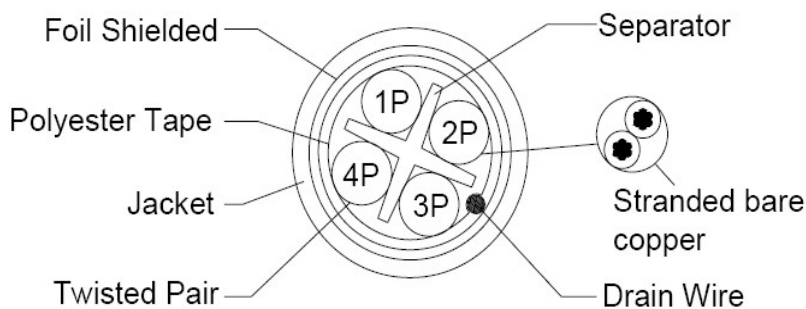
CATEGORY 6 FTP PATCH CABLE 4 PAIR



Jyh Eng Category 6 FTP cables are designed to meet the most advanced FTP cable applications. Tested to 250 MHz, the guaranteed performance of this cable meets the ISO/IEC 11801 and EN50288 requirements for PS-NEXT, attenuation, return loss, attenuation-to-crosstalk ratio (ACR) and impedance, making it ideal for high-end transmission links supporting today's networking protocols

CONSTRUCTION

26 AWG bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit jacketed with flame-retardant PVC.



Construction

Twisted Pairs Color Code:

1. PAIR 1: Blue, White/Blue
2. PAIR 2: Orange, White/Orange
3. PAIR 3: Green; White/Green
4. PAIR 4: Brown; White/Brown

APPLICATIONS

Category 6 FTP cable is intended for high speed data applications including: IEEE 802.3 1000BASE-T, 10BASE-T, 155 Mb/s ATM, 4/16 Mb/s Token Ring

FEATURES

- Specified and tested to 250 MHz
- Small, round design pairs

BENEFITS

- Reliably supports today's network protocols
- Reduced installation costs and maintenance
- Lower Bit Error Rates, increases network efficiency and uptime

STANDARDS

International ISO/IEC 11801

European EN50288

FLAME RATING

UL 444 CM, CMR

Physical Characters

Un-aged:

1. Tensile strength: Polyolefin 2400PSI, Jacket (PVC) 2000PSI
2. Elongation: Polyolefin 300% min. Jacket (PVC) 100% min

After Aging:

1. Tensile strength: Polyolefin 75%min. Jacket (PVC) 85% min
2. Elongation: Polyolefin 75%min. Jacket (PVC) 50% min

Component

1. Conductor: AWG 26 (Stranded Copper 7x 0.152mm)
2. Insulators: HDPE (Min. Thickness 0.153, Min. Avg. thickness 0.178)
3. Insulators Diameter: 0.81 ± 0.02mm
4. Mylar Tape: 20 x 0.02 ± 0.01
5. Al-Mylar Tape: 20 x 0.038 ± 0.002
6. Jacket: 75°C PVC (Min. Thickness 0.58, Min. Avg. thickness 0.46)
7. Jacket Diameter: 5.3 ± 0.3mm

Marking

Jyh Eng FTP PATCH CABLE 26AWG 4PR 75°C (UL) E178558 CM rated
ISO/IEC 11801 & EN50288 CAT.6 XXXXXXXX-X

or customization

Electric Characters

1. Voltage rating: 300V
2. Temperature rating: 75°C
3. Dielectric strength: DC 2.5 KV / 2sec. or AC1.75 KV / 2sec.
4. Mutual Capacitance: 5.6 nF/100M nom.
5. Pair to ground : 330pF/100m max
6. Conductor DC resistance: 9.38 Ohms/km max. at 20°C.
7. DC Resistance Unbalance: 5% max.
8. Characteristic Impedance: 100±15 Ohms 1~250MHz
9. Propagation Delay skew: 45ns/100m max. 1~250MHz
10. Velocity of Propagation: 70%

| FREQ | NEXT | RL | PSNEXT | ELFEXT | PSELFEXT | DELAY |
|-------|-----------|-------------------|-----------|-----------|-----------|-------------------|
| MHz | (min. dB) | (min. dB at 20°C) | (min. dB) | (min. dB) | (min. dB) | (max. ns at 20°C) |
| 0.772 | 76.0 | 19.4 | 74.0 | 70.0 | 67.0 | 575.0 |
| 1 | 74.3 | 20.0 | 72.3 | 67.8 | 64.8 | 570.0 |
| 4 | 65.3 | 23.0 | 63.3 | 55.8 | 52.8 | 552.0 |
| 8 | 60.8 | 24.5 | 58.8 | 49.7 | 46.7 | 546.7 |
| 10 | 59.3 | 25.0 | 57.3 | 47.8 | 44.8 | 545.0 |
| 16 | 56.2 | 25.0 | 54.2 | 43.7 | 40.7 | 543.0 |
| 20 | 54.8 | 25.0 | 52.8 | 41.8 | 38.8 | 542.0 |
| 25 | 53.3 | 24.2 | 51.3 | 39.8 | 36.8 | 541.2 |
| 31.25 | 51.9 | 23.3 | 49.9 | 37.9 | 34.9 | 540.4 |
| 62.50 | 47.4 | 20.7 | 45.4 | 31.9 | 28.9 | 538.6 |
| 100 | 44.3 | 19.0 | 42.3 | 27.8 | 24.8 | 538.0 |
| 200 | 39.8 | 16.4 | 37.8 | 21.8 | 18.8 | 536.5 |
| 250 | 38.3 | 15.6 | 36.3 | 19.8 | 16.8 | 536.0 |