

ELITE Category 6A U/FTP cables are designed to meet the most advanced U/FTP cable applications. Tested to 500 MHz, the guaranteed performance of this cable meets the ANSI/TIA 568C.2 and ISO/IEC 11801 requirements, making it ideal for high-end transmission links supporting today's networking protocols.

CONSTRUCTION

26AWG 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.

STANDARDS

North American ANSI/TIA 568C.2

International ISO/IEC 11801

FLAME RATING

UL 444 CM, CMR



APPLICATIONS

Category 6A U/FTP cable is intended for high speed data applications including:

10G BASE-T, 10BASE-T, 155 Mb/s ATM, 4/16 Mb/s Token Ring

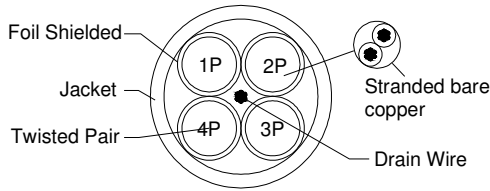
FEATURES

- Specified and tested to 500 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

CATEGORY 6A U/FTP PVC PATCH CABLE 4 PAIR



Construction

Twisted Pairs Color Code:

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

Component

1. Conductor: AWG 26
2. Insulators: HDPE (Min. Thickness 0.153, Min. Avg. thickness 0.178)
3. Insulators Diameter: $1.03 \pm 0.01\text{mm}$
4. Aluminum Foil: 50u * 12mm
5. Drain Wire: $7 * 0.152\text{mm}$
6. Jacket: 75°C PVC (Min. Thickness 0.58, Min. Avg. thickness 0.46)
7. Jacket Diameter: $6.3 \pm 0.2\text{mm}$

Marking

ELITE U/FTP PATCH CABLE 26AWG 4PR CM 75°C (UL) E178558
 rated ANSI/TIA 568C.2 CAT.6A XXXXXX-X
 or customization

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

Electric Characters

1. Voltage rating: 30V
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: 14.3 Ohms/km max. at 25°C .
7. DC Resistance Unbalance: 4% max.
8. Characteristic Impedance: 100 ± 15 Ohms 1~500MHz
9. Propagation Delay skew: 50ns/100m max. 1~500MHz
10. Velocity of Propagation: 70%

FREQ MHz	Insertion Loss (max. dB/100m)	NEXT (min. dB)	RL (min. dB at 20°C)	PSNEXT (min. dB)	ACRF (min. dB)	PSACRF (min. dB)	DELAY (max. ns at 20°C)
1	2.5	74.3	20.0	72.3	67.8	64.8	570
4	4.6	65.3	23.0	63.3	55.8	52.8	552
8	6.4	60.8	24.5	58.8	49.7	46.7	547
10	7.1	59.3	25.0	57.3	47.8	44.8	545
16	9.0	56.2	25.0	54.2	43.7	40.7	543
20	10.1	54.8	25.0	52.8	41.8	38.8	542
25	11.3	53.3	24.2	51.3	39.8	36.8	541
31.25	12.6	51.9	23.3	49.9	37.9	34.9	540
62.50	18.0	47.4	20.7	45.4	31.9	28.9	539
100	23.0	44.3	19.0	42.3	27.8	24.8	538
200	33.3	39.8	16.4	37.8	21.8	18.8	537
250	37.3	38.3	15.6	36.3	19.8	16.8	536
300	41.1	37.1	14.9	35.1	18.3	15.3	536
400	48.1	35.3	13.8	33.3	15.8	12.8	536
500	54.3	33.8	13.0	31.8	13.8	10.8	536