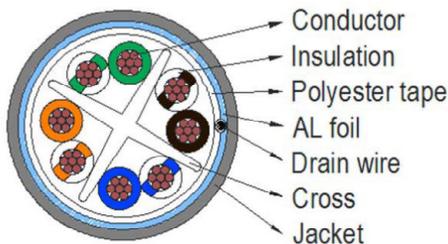




## CATEGORY 6 F/UTP PATCH CABLE 4 PAIR (AWG 26) LSOH



Wave Cables Cat. 6 F/UTP cables are designed to meet the most advanced F/UTP cable applications. Tested to 250MHz, the performance of this cable meets the 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. Low smoke zero halogen is becoming very popular and, in some cases, a requirement where the protection of people and equipment from toxic and corrosive gas is critical.



### Construction

Twisted Pairs Color Code:  
 PAIR 1: Blue, White/Blue  
 PAIR 2: Orange, White/Orange  
 PAIR 3: Green; White/Green  
 PAIR 4: Brown; White/Brown

### Component

Conductor: AWG 26,  $7 \times 0.152 \pm 0.005$ mm  
 Insulators: HDPE (Min. Thickness 0.153, Min. Avg. thickness 0.178)  
 Insulators Diameter:  $1.150 \pm 0.01$ mm  
 Foil screen: Aluminium/PET, 25/25 $\mu$ m  
 Drain wire: Tin Plated Copper,  $7 \times 0.152$ mm  
 Jacket: LSOH (Min. Thickness 0.58, Min. Avg. thickness 0.51)  
 Jacket Diameter:  $5.7 \pm 0.2$ mm

### Marking

Wave Cables F/UTP STRANDED CABLE 26AWG 4PR CAT.6 LSOH

### Physical Characteristics

Un-aged:  
 Tensile strength: Polyolefin 2400PSI, Jacket (LSOH) 2000PSI  
 Elongation: Polyolefin 300% min. Jacket (LSOH) 100% min  
 After Aging:  
 Tensile strength: Polyolefin 75%min. Jacket (LSOH) 85% min  
 Elongation: Polyolefin 75%min. Jacket (LSOH) 50% min

### 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 LSOH jacketed with flame-retardant sheath. Plastic cross in the middle separates pairs from each other.

### APPLICATIONS

Category 6 F/UTP 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
- LSOH sheath

### BENEFITS

- Reliably supports today's network protocols
- Reduced installation costs and maintenance
- Lower Bit Error Rates, increases network efficiency and uptime
- Limited emission of smoke and no halogen when exposed to high sources of heat

### Electric Characteristics

Voltage rating: 300V  
 Temperature rating: 75°C  
 Dielectric strength: DC 2.5 KV / 2sec. or AC1.75 KV / 2sec.  
 Mutual Capacitance: 5.6 nF/100M nom.  
 Pair to ground : 330pF/100m max  
 Conductor DC resistance: 89 Ohms/km max. at 20°C.  
 DC Resistance Unbalance: 5% max.  
 Characteristic Impedance:  $100 \pm 15$  Ohms 1~100MHz  
 Propagation Delay skew: 45ns/100m max.  
 Velocity of Propagation: 70%



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**Transmission Characteristics**

FREQ	Attenuation	RL	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	Prop. DELAY
MHz	max. dB/100m	min. dB at 20°C	min. dB	min. dB	min. dB	min. dB	max. ns at 20°C
1	3.1	20.0	75.3	72.3	68.0	65.0	570
4	5.8	23.0	66.3	63.3	56.0	53.0	552
8	8.1	24.5	61.8	58.8	49.9	50.4	547
10	9.0	25.0	60.3	57.3	48.0	45.0	545
16	11.4	25.0	57.2	54.2	43.9	40.9	543
20	12.8	25.0	55.8	52.8	42.0	39.0	542
25	14.4	24.2	54.3	51.3	40.0	37.018	541
31.25	16.1	23.4	52.9	49.9	38.1	35.1	540
62.50	23.2	20.8	48.4	45.4	32.1	29.1	539
100	29.9	19.0	45.3	42.3	28.0	25.0	538
200	43.8	16.4	40.8	37.8	22.0	19.0	537
250	49.7	15.6	39.3	36.3	20.0	17.0	536