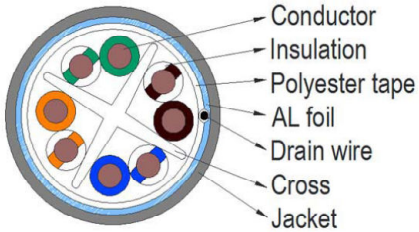
CATEGORY 6 F/UTP SOLID CABLE 4 PAIR (AWG 23)



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 todays networking protocols.



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 23, 0.551 ± 0.005mm
Insulators: HDPE (Min. Thickness 0.153, Min. Avg. thickness 0.178)
Insulators Diameter: 1.150 ± 0.01mm
Foil screen: Aluminium/PET, 65/26µm
Drain wire: Tin Plated Copper, 0.43mm
Jacket: 75°C PVC (Min. Thickness 0.58, Min. Avg. thickness 0.51)
Jacket Diameter: 7.3 ± 0.2mm

Marking

Wave Cables U/UTP STRANDED CABLE 24AWG 4PR CAT.6

Physical Characteristics

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

CONSTRUCTION

23AWG 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. 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

BENEFITS

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

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±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	2.1	20.0	75.3	72.3	68.0	65.0	570
4	3.8	23.0	66.3	63.3	56.0	53.0	552
8	5.4	24.5	61.8	58.8	49.9	50.4	547
10	6.0	25.0	60.3	57.3	48.0	45.0	545
16	7.6	25.0	57.2	54.2	43.9	40.9	543
20	8.5	25.0	55.8	52.8	42.0	39.0	542
25	9.6	24.2	54.3	51.3	40.0	37.0	541
31.25	10.7	23.6	52.9	49.9	38.1	35.1	540
62.50	15.5	21.5	48.4	45.4	32.1	29.1	539
100	19.9	20.1	45.3	42.3	28.0	25.0	538
200	29.1	18.0	40.8	37.8	22.0	19.0	537
250	33.0	17.3	39.3	36.3	20.0	17.0	536