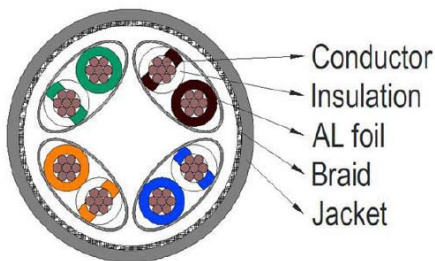




CATEGORY 6_A S/FTP PATCH CABLE 4 PAIR (AWG 26)



Wave Cables Cat. 6_A S/FTP cables are designed to meet the most advanced S/FTP cable applications. Tested to 500MHz, 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.



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, 7x0.152 ± 0.005mm

Insulators: HDPE (Min. Thickness 0.153, Min. Avg. thickness 0.178)

Insulators Diameter: 1.150 ± 0.01mm

Foil screen: Aluminium/PET, 25/25µm

Braid: Copper Clad with Steel, 0.1mm x 4 x 16

Jacket: 75°C PVC (Min. Thickness 0.58, Min. Avg. thickness 0.51)

Jacket Diameter: 6.3 ± 0.2mm

Marking

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

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

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. Plastic cross in the middle separates pairs from each other.

APPLICATIONS

Category 6_A S/FTP cable is intended for high speed data applications including: IEEE 802.3, 10BASE-T, 1000BASE-TX, and 10GBASE-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

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: 76%



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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	5.7	23.0	66.3	63.3	56.0	53.0	552
8	8.0	24.5	61.8	58.8	49.9	46.9	549
10	8.9	25.0	60.3	57.3	48.0	45.0	545
16	11.2	25.0	57.2	54.2	43.9	40.9	543
20	12.6	25.0	55.8	52.8	42.0	39.0	542
25	14.1	24.2	54.3	51.3	40.0	37.0	541
31.25	15.8	23.3	52.9	49.9	38.1	35.1	540
62.50	22.5	20.7	48.4	45.4	32.1	29.1	539
100	28.7	19.0	45.3	42.3	28.0	25.0	538
200	41.4	16.4	40.8	37.8	22.0	19.0	537
250	46.6	15.6	39.3	36.3	20.0	17.0	537
300	51.4	14.9	38.1	35.1	18.5	15.5	536
400	60.1	13.8	36.3	33.3	16.0	13.0	536
500	67.9	13.0	34.8	31.8	14.0	11.0	536