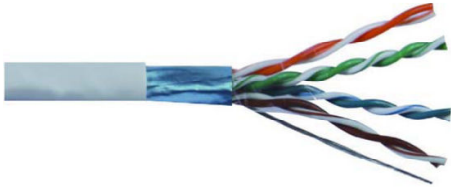
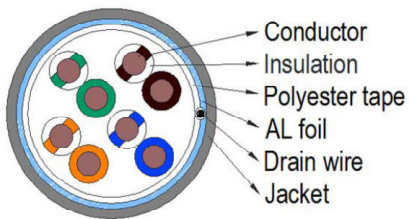




CATEGORY 5E F/UTP SCREENED SOLID CABLE 4 PAIR (AWG 24) LSOH



Wave Cables 5E F/UTP cables are designed to meet the most advanced U/UTP cable applications. Tested to 100MHz, 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 24
 Insulators: HDPE (Min. Thickness 0.153, Min. Avg. thickness 0.178)
 Insulators Diameter: 0.88 ± 0.01mm
 Foil screen: Aluminium/PET, 50/15µm
 Drain wire: Tin Plated Copper, 0.43mm
 Jacket: LSOH (Min. Thickness 0.58, Min. Avg. thickness 0.51)
 Jacket Diameter: 5.1 ± 0.2mm

Marking

Wave Cables F/UTP SOLID SCREENED CABLE 24AWG 4PR CAT.5E 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

24AWG 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. Shield consist of a thin layer of aluminium and polyester tape. Additional drain wire is used to terminate and ground the shield.

APPLICATIONS

Category 5E 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 100 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
- Screen is reflecting energy and is picking up noise and conduct it to the ground
- 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±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	2.0	20.0	65.3	62.3	64.0	61.0	570
4	4.1	23.0	56.3	53.3	52.0	49.0	552
8	5.8	24.5	51.8	48.8	45.9	42.9	547
10	6.5	25.0	50.3	47.3	44.0	41.0	545
16	8.2	25.0	47.2	44.4	39.9	36.9	543
20	9.3	25.0	45.8	42.8	38.0	35.0	542
25	10.4	24.3	44.3	41.3	36.0	33.0	541
31.25	11.7	23.6	42.9	39.9	34.1	31.1	540
62.50	17.0	21.5	38.4	35.4	28.1	25.1	539
100	22.0	20.1	35.3	32.3	24.0	21.0	538
200	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-