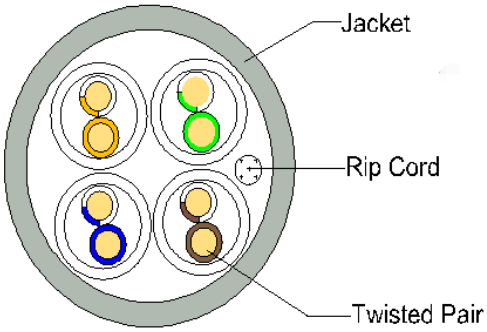
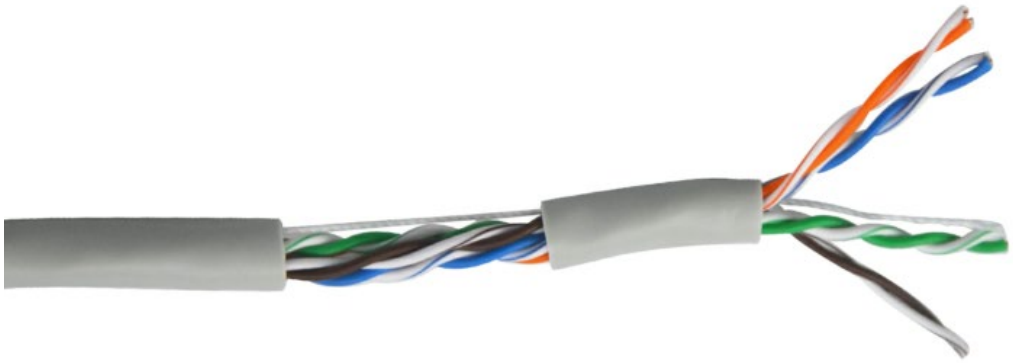
CAT5E UTP 24AWG 4PAIR LSZH





Standards

- ANSI/TIA-568-C.2 IEC 61156-5
- EN 50288-10-1
- EN 50173
- ISO/IEC 11801
- EN 50575

Applications

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps TOKEN RING (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)
- 1.2 Gbps ATM
- 10G BASE-T

Color codes

- Insulation Color:

  P1: White & Blue / Blue
  P2: White & Orange / Orange
  P3: White & Green / Green
  P4: White & Brown / Brown

- Jacket Color: Option

Cable Printing

- Option

Packaging

1. Easy Pull Box/305m
2. Reel/ 305m
3. Reel/ 500m

Test Requirements

- Pass fluke 90m permanent link test
- TIA-568-C.2

CONSTRUCTION

Conductor Material		99.99% Solid Bare Copper
Conductor Number		8C(4 pairs)
Cable AWG		23
Construction(±0.01mm)		1/0.50
Rip cord		Yes
Insulation	Material	PE
	Nom. Thickness(mm)	0.20
	Diameter(±0.08mm)	0.91
Jacket	Material	LSZH
	Nom. Thickness(mm)	0.50
	Diameter(±0.30mm)	5.0

Electrical Performance

Max. Conductor DC Resistance (Ω/km)		93
Min. Insulation Resistance (ΩM-KM)		500
Dielectric Strength		DC-1KV/1 Min
1.0-250MHZ Characteristic Impedance(ohms)		100Ω±15Ω
1.0-250MHZ Delay Skew(ns/100m)		≤45
Pair to Ground Capacitance Unbalance(Pf/100m)		≤330
Resistance Unbalance(%)		≤4
Max Mutual Capacitance		5.6nF/10
Max DC Loop Resistance		19.2Ω/100m
Before Aging	Tensile Strength(Mpa)	≥13.5
	Elongation(%)	≥100
After Aging 100°C*24h*7d	Tensile Strength(Mpa)	≥75
	Elongation(%)	≥50
Velocity of Propagation NVP		69%

TIA-568-C.2

Freq. (MHz)	ATTN (dB/100m)	RL (dB)	NEXT (dB)	ELFEXT (dB/100m)	PS NEXT (dB/100m)	PS ELFEXT (dB/100m)
1	2.0	20.0	65.3	63.8	62.3	60.8
4	4.1	23.3	56.3	51.7	53.3	48.7
10	6.5	25.0	50.3	43.8	47.3	40.8
16	8.2	25.0	47.3	39.7	44.2	36.7
20	9.3	25.0	45.8	37.7	42.8	34.7
31.25	11.7	23.6	42.9	33.9	39.9	30.9
62.5	17.0	21.5	38.4	27.8	35.4	24.8
100	22.0	20.0	35.3	23.8	32.3	20.8

TIA Cat 5e Perm. Link

Wire Map	Res.	Length	Prop. Delay	Delay Skew	Freq.	Insertion Loss	NEXT	RL	ACR-N	ACR-F	PS NEXT	PS ACR-N	PS ACR-F
	Ω	Max.	nS	nS	MHz	dB	dB	dB	dB	dB	dB	dB	dB
12345678	i	90 m	498	44	1	3	60.0	19.0	57.0	58.6	57.0	54.0	55.6
12345678					4	3.9	54.8	19.0	50.9	46.6	51.8	47.9	43.6
					8	5.5	50.0	19.0	44.5	40.6	47.0	41.5	37.6
12345678S					10	6.2	48.5	19.0	42.3	38.6	45.5	39.3	35.6
12345678S					16	7.9	45.2	19.0	37.3	34.5	42.2	34.3	31.5
					20	8.9	43.7	19.0	34.8	32.6	40.7	31.8	29.6
					25	10	42.1	18.0	32.1	30.7	39.1	29.1	27.7
					31.25	11.2	40.5	17.1	29.3	28.7	37.5	26.3	25.7
					62.5	16.2	35.7	14.1	19.4	22.7	32.7	16.4	19.7
					100	21	32.3	12.0	11.3	18.6	29.3	8.3	15.6

For More Information:

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