

CAT6 UTP 23AWG 4PAIR LSZH GREY COLOUR



STANDARDS

ANSI/TIA-568-C.2 IEC 61156-5
EN 50288-5-1
EN 50173
ISO/IEC 11801
EN 50575
EN 13501-6

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

COLOR CODES

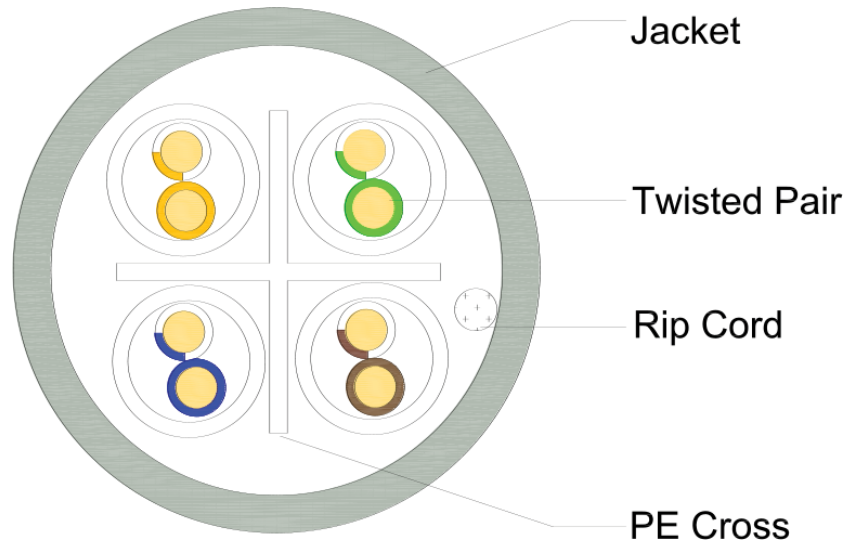
Insulation Color:
P1: White & Blue / Blue
P2: White & Orange / Orange
P3: White & Green / Green
P4: White & Brown / Brown
Jacket Color:
Option

CABLE PRINTING

Option

PACKAGING

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



CONSTRUCTION

Conductor Material		Pure Solid Bare Copper
Conductor Number		8C(4 pairs)
Cable AWG		23
Construction($\pm 0.05\text{mm}$)		1/0.55
Separator		PE Cross
Rip Cord		Yes
Insulation	Material	PE
	Nom. Thickness(mm)	0.20
	Diameter($\pm 0.05\text{mm}$)	1.0
Jacket	Material	LSZH
	Nom. Thickness(mm)	0.50
	Diameter($\pm 0.30\text{mm}$)	6.30

ELECTRICAL PERFORMANCE

Max. Conductor DC Resistance (Ω/km)		93
Min. Insulation Resistance ($\Omega\text{M-KM}$)		500
Dielectric Strength		DC-1KV/1 Min
1.0-250MHZ Characteristic Impedance(ohms)		100 Ω $\pm$ 15 Ω
1.0-250MHZ Delay Skew(ns/100m)		≤ 45
Pair to Ground Capacitance Unbalance(Pf/100m)		≤ 330
Resistance Unbalance between pairs (%)		≤ 4
Max Mutual Capacitance		5.6nF/100m
Max DC Loop Resistance		19.2 Ω /100m
Before Aging	Tensile Strength(Mpa)	≥ 9
	Elongation(%)	≥ 100
After Aging 100°C*24h*7d	Tensile Strength(Mpa)	≥ 75
	Elongation(%)	≥ 50
Velocity of Propagation NVP		69%

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C.2-568-TIA

Freq.	ATTN	RL	NEXT	ELFEXT	PS NEXT	PS ELFEXT
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)
1	2.0	20.0	74.3	67.8	72.3	64.8
4	3.8	23.0	65.3	55.8	63.3	52.8
8	5.3	24.5	60.8	49.7	58.8	46.7
10	6.0	25.0	59.3	47.8	57.3	44.8
16	7.6	25.0	56.2	43.7	54.2	40.7
20	8.5	25.0	54.8	41.8	52.8	38.8
25	9.5	24.3	53.3	39.8	51.3	36.8
31.25	10.7	23.6	51.9	37.9	49.9	34.9
62.5	15.4	21.5	47.4	31.9	45.4	28.9
100	19.8	20.1	44.3	27.8	42.3	24.8
200	29.0	18.0	39.8	21.8	37.8	18.8
250	32.8	17.3	38.3	19.8	36.3	16.8

TIA Cat 6 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	65.0	19.1	62.0	64.2	62.0	59.0	61.2
12345678					4	3.5	64.1	21.0	60.6	62.1	61.8	58.3	49.1
					8	5	59.4	21.0	54.4	46.1	57.0	52.1	43.1
12345678S					10	5.5	57.8	21.0	52.3	44.2	55.5	49.9	41.2
12345678S					16	7	54.6	20.0	47.6	40.1	52.2	45.2	37.1
					20	7.9	53.1	19.5	45.2	38.2	50.7	42.8	35.2
					25	8.9	51.5	19.0	42.7	36.2	49.1	40.2	33.2
					31.25	10	50.0	18.5	40.0	34.3	47.5	37.6	31.3
					62.5	14.4	45.1	16.0	30.8	28.3	42.7	28.3	25.3
					100	18.6	41.8	14.0	23.3	24.2	39.3	20.7	21.2
					200	27.4	36.9	11.0	9.6	18.2	34.3	7.0	15.2
					250	31.1	35.3	10.0	4.2	16.2	32.7	1.6	13.2

FORCE
Certification



BEEK CAT 6



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