

UTP Cat.6 4 Pair Data Cable

Application

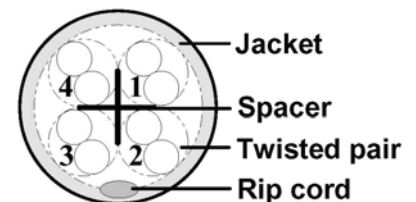
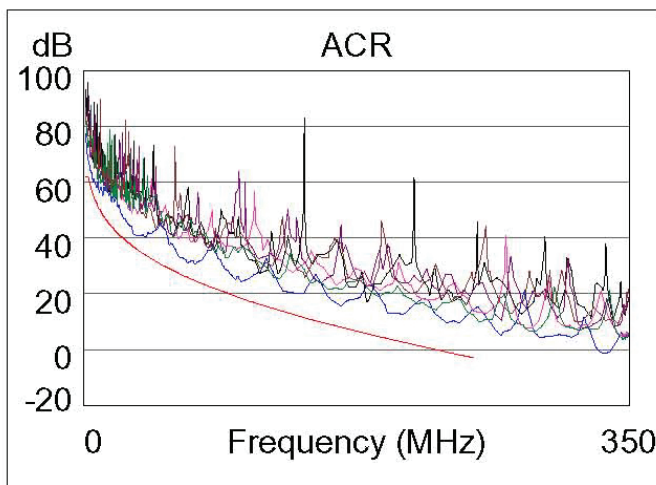
MIZU Cat.6 UTP Cable is most perfect solution design to future proof network . With the world most advance manufacturing and testing equipments in , and as a highly professional LAN Cable producer. We highly recommended Cat.6 Cable for all forthcoming installation.

- 10/100 baseT Ethernet
- 1000 baseTX Fast Ethernet
- 155 Mbit ATM
- 622 Mbit ATM
- 1.2 Gbit ATM
- Future classe application

MIZU Cat.6 UTP is Verified to ISO/IEC 11801 Category 6.
TIA/EIA-568-B.2-1 ; IEC 61156-5 ; EN50173

Performance

MIZU Cat.6 UTP Cable offers substantial headroom over other UTP cable . Typical worst ACR figure are shown as:



Twisted Pair Color Code :

1. Orange, White/Orange
2. Blue, White/Blue
3. Brown, White/Brown
4. Green, White/Green

UTP Cat.6 4 Pair Data Cable

Component

- a. Size of conductor : AWG 24 (Solid Anneal copper wire).
- b. Dielectric material : Polyethylene.
- c. Diameter of Dielectric core : 1.00 ± 0.05 mm.
- d. Number of twist pairs : Four pairs.
Each one of four pairs with different pitch.

Electrical Property

- a. Mutual Capacitance : max. 5.6nf/100m at 1 kHz
- b. Capacitance unbalance pair to ground : max. 160pf/100m at 1 kHz
- c. DC resistance of conductor : max. $9.38\Omega/100m$ at 20°C
- d. DC resistance unbalance of conductor : max. 2% at 20°C
- e. Insulation resistance : min. $5000M\Omega/Km$ at 20°C
- f. Velocity of propagation : nom. 66%
- g. Rated temperature : $60/75^{\circ}\text{C}$
- h. Rated voltage : 30V
- i. Dielectric test : min. 1 kV / 1 minute, without any breakdown

j.

Frequeuncy	Impedance	Atten.	NEXT	PSNEXT	ACR	PSACR	ELFEXT
(MHz)	Ω	dB	dB	dB	dB	dB	dB
1	100 ± 15	2.0	74.3	72.3	72.3	70.3	67.8
4		3.8	65.3	63.3	61.5	59.5	55.8
8		5.3	60.8	58.8	55.5	53.5	49.7
10		6.0	59.3	57.3	53.3	51.3	47.8
16		7.6	56.3	54.3	48.7	46.7	43.7
20		8.5	54.8	52.8	46.3	44.3	41.8
25		9.5	53.4	51.4	43.9	41.9	39.8
31.25		10.7	51.9	49.9	41.2	39.2	37.9
62.5		15.4	47.4	45.4	32.0	31.0	31.9
100		19.8	44.3	42.3	24.5	22.5	27.8
200		29.0	39.8	37.8	10.8	8.8	21.8
250		32.8	38.4	36.4	5.6	3.6	19.8

UTP Cat.6 4 Pair Data Cable Physical Property

Insulation

Material	Physical Property	Min. Elongation(%)	Min. Tensile strength(psi)
Polyethylene	Unaged	300	2400
	Aged(%)	75	75

Jacket

Material	Physical Property	Min. Elongation(%)	Min. Tensile strength(psi)
PVC	Unaged	100	1500
	Aged(%)	65	70
CM	Unaged	100	2500
	Aged(%)	50	85
CMR	Unaged	100	2500
	Aged(%)	50	85
LSZH	Unaged	100	1200
	Aged(%)	75	75
UV-PE	Unaged	350	1400
	Aged(%)	75	75

