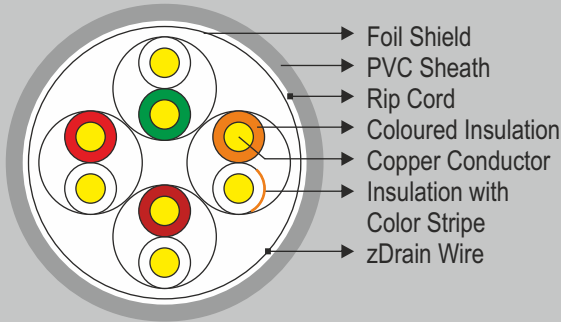


Cat6 23AWG UTP Cable



INTRODUCTION

Master Flex solid cables are the best twisted pair cables in the market for transmitting data over local area networks (LAN). These cables exceed performance requirements specified by the TIA/EIA-568C.2 and IEC 60603-7-4 standards.

As streaming video and multimedia over LAN are gaining popularity, users demand faster data transmission and reduced waiting time. Master Cables are ideal for simple, cost-effective and high-speed transmission performance. They support a higher signal-to-noise ratio, providing better reliability for current applications and higher data rates for future applications.

CAT6 23AWG UTP CABLE

CAT6 cables reduce crosstalk and system noise. The superior insulation around the 23 AWG copper wires attribute to the increased performance. they can transmit data at 1000 Mbps(-1 Gigabit per second) with a frequency os 250 MHZ and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T/1000BASE-TX (Gigabit Ethernet).

SPECIFICATIONS

- 4 Pairs Unshielded Twisted Pair (UTP) Cable
- Conductor Metal: Solid Bare Copper
- Color Code: Gray
- Conductor Diameter: 0.560mm Nominal, 23 AWG
- Insulation Diameter: 0.970mm Nominal, Insulation Material: HD-PE
- Jacket Material: PVC UL94V-0/LSZH
- Cable Diameter: 6mm Nominal
- PE Central Cross separator

TECHNICAL DETAILS

- Mutual Capacitance: 5.6n F/100m nominal
- Characteristic Impedance: 100Ω±15%
- Nominal Velocity of Propagation: 69%
- Characteristic Impedance: 100+15Ω
- Conductor Resistance: <9.38Ω/100m
- Mutual Capacitance: <5.6nF/100m
- Resistance Unbalance: 5% Max
- Capacitance Unbalance: 330pF/100m
- Delay Skew: <45nS
- Bending Radius: <4XCable Diameter at -20°C±1°C
- Pulling Force: 11.5 Kg
- Temperature Range: -?0° to +70°C

TRANSMISSION CHARACTERISTICS PER 100m

Frequency (MHZ)	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	ACR (dB)	PSACR (dB)
1	2.0	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.8	23.0	65.3	63.3	55.8	52.8	61.5	59.5
8	5.3	24.5	60.8	58.8	49.7	46.7	55.5	53.5
10	6.0	25.0	59.3	57.3	47.8	44.8	53.3	51.3
16	7.6	25.0	56.2	54.2	43.7	40.7	48.6	46.6
20	8.5	25.0	54.8	52.8	41.8	38.8	46.3	44.3
25	9.5	24.3	53.3	51.3	39.8	36.8	43.8	41.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9	41.2	39.2
62.5	15.4	21.5	47.4	45.4	31.9	28.9	32.0	30.0
100	19.8	20.1	44.3	42.3	27.8	24.8	24.5	22.5
200	29.0	18.0	39.8	37.8	21.8	18.8	10.8	8.8
250	32.8	17.3	38.3	36.3	19.8	16.8	5.5	3.5

