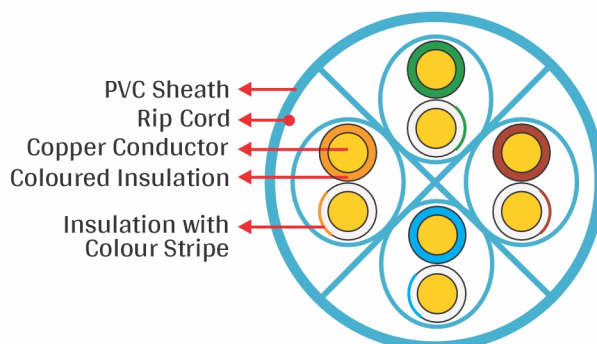


CAT6 23AWG UTP CABLE

STRUCTURED CABLING SOLUTIONS



INTRODUCTION

Wirelux offers exceptional twisted-pair cables that stand out in the market for transmitting data over local area networks (LANs). These cables not only meet but surpass the performance standards set by TIA/EIA-568.2-D and IEC 60603-7-4.

As the popularity of streaming video and multimedia over LAN continues to grow, users are increasingly seeking quicker data transmission and reduced latency. Wirelux cables offer an excellent solution for straightforward, cost-effective, and high-speed transmission performance. They enhance signal-to-noise ratios, ensuring improved reliability for current applications and the capacity for higher data rates in future applications.

TECHNICAL DETAILS

- Mutual Capacitance: 5.6nF/100m nominal
- Characteristic Impedance: $100 \pm 15\%$
- Nominal Velocity of Propagation: 69%
- Conductor Resistance: $< 9.38/100m$
- Resistance Unbalance: 5% Max
- Capacitance Unbalance: 330pF/100m
- Delay Skew: $< 45nS$
- Bending Radius: $< 4 \times$ Cable Diameter at $-20^{\circ}C \pm 1^{\circ}C$
- Pulling Force: 11.5Kg
- Temperature Range: -20° to $+70^{\circ}C$

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Wirelux CAT6 cables effectively minimize crosstalk and system interference. The enhanced insulation surrounding the 23 AWG copper conductors contributes to their superior performance. These cables can achieve data transmission speeds of 1000 Mbps (approximately 1 Gigabit per second) with a frequency of 250 MHz, making them suitable for 10BASE-T, 100BASE-TX Fast Ethernet, and 1000BASE-T/1000BASE-TX (Gigabit Ethernet) applications.

SPECIFICATIONS

- 4 Pairs Unshielded Twisted Pair (UTP) Cable
- Conductor Metal: Solid Bare Copper
- Color Code: Gray
- Conductor Diameter: 0.530mm Nominal, 23 AWG
- Insulation Diameter: 0.980mm Nominal,
- Insulation Material: HD-PE
- Jacket Material: FR PVC
- Cable Diameter: 5.7mm Approx.
- PE Central Cross separator

APPROVAL / CERTIFICATION

- Compliant with TIA/EIA-568.2-D standards
- RoHS

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

PRODUCT NO.

W23PS6305-GR

DESCRIPTION

Cat6 UTP 23AWG Solid Cable - 305M / Roll

COLOR

Light Grey