



Cat6A 23AWG UTP Cable

INTRODUCTION

D-Link solid cables are the best twisted-pair cables in the market for transmitting data over local area Networks (LANs). 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. D-Link 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.

CAT6A 23AWG UTP CABLE

Cat6A cable is specified by TIA/EIA-568C.2 for enhanced performance standards for twisted pair cable systems. It performs at improved specifications, practically in the area of alien crosstalk as compared to category 6. These cables are made of 23 AWG copper wires with a frequency of 500MHz can transmit data at 10 BASE-T, 100BASE-TX, 1000BASE-T and 10G BASE-T (Gigabit Ethernet). The cable well exceeds the ANSI/TIA-568.C.2

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/LSZH
- Cable Diameter: 8.0m Nominal
- PE Central Cross separator

TECHNICAL DETAILS

- 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: < 4 X Cable Diameter at -20°C ± 1°C
- Pulling Force: 11.5Kg
- Temperature Range: -20° to +70°C

TRANSMISSION CHARACTERISTICS PER 100M

Frequency (MHz)	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)
1	2.1	20.0	74.3	72.3	67.8	64.8
4	3.8	23.0	65.3	63.3	55.8	52.8
10	5.9	25.0	59.3	57.3	47.8	44.8
16	7.5	25.0	56.2	54.2	43.7	40.7
20	8.4	25.0	54.8	52.8	41.8	38.8
25	9.5	24.3	53.3	51.3	43.8	41.8
31.25	10.5	23.6	51.9	49.9	37.9	34.9
62.5	15	21.5	47.4	45.4	31.9	28.9
100	19.1	20.1	44.3	42.3	27.8	24.8
200	27.6	18.0	39.8	37.8	21.8	18.8
250	31.1	17.3	38.3	36.3	19.8	16.8
300	34.3	16.8	38.1	35.1	18.3	15.3
500	45.3	15.2	34.8	31.8	13.8	10.8

Product No.	Description	Color
NCB-6AUGRYR-305	Cat6A UTP 23AWG Solid Cable - 305m/Roll -PVC	Gray
NCB-6AUGRYR-500-LS	Cat6A UTP 23AWG Solid Cable - 500m/Roll - LSZH	Gray