



## Cat6 SF/UTP 23 AWG Solid 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.

### Cat6 SF/UTP Cable

D-Link 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 of 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T/1000BASE-TX (Gigabit Ethernet). Enhanced performance cable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 baseT) standard. Operates at bandwidth of 250 MHz. This cable well exceeds the requirements of ANSI/TIA-568-C.2. & ISO/IEC 11801 Ed. 2.0.

### FEATURES

The shield acts as a Faraday cage to reduce electrical noise from affecting the signals, and to reduce electromagnetic radiation that may interfere with other devices. Tinned Copper Braiding provides mechanical strength to cable.

### SPECIFICATIONS

- 4 Pairs Foiled Twisted Pair screened with tinned copper braiding (SF/UTP) Cable
- Conductor Metal: 23 AWG Solid Bare Copper
- Shielding: Aluminum/Polyester Foil
- Screened: Tinned Copper Braiding
- Color Code: Grey
- Jacket Material: PVC/LSZH
- Cable Diameter : 7.0mm Nominal

#### TRANSMISSION CHARACTERISTICS meets or exceed ANSI/TIA-568-C.2

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.	Description	Color
NCB-C6SFGRR-305	Cat6 SF/UTP 23 AWG PVC Solid Cable - 305M/Roll	Grey
NCB-C6SFGRR-305-LS	Cat6 SF/UTP 23 AWG LSZH Solid Cable - 305M/Roll	Grey

### TECHNICAL DETAILS

- Mutual Capacitance: <5.6nF/100m nominal
- Characteristic Impedance: 100Ω ±15
- Nominal Velocity of Propagation: 69%
- Conductor Resistance: < 9.38Ω/100m
- Resistance Unbalance: 5 % Max
- Capacitance Unbalance: 330pF/100m
- Delay Skew: < 45nS
- Bending Radius: : < 8 x Cable Diameter at -20°C ±1°C
- Pulling Force: : 11.5 kgs
- Temperature Range: : -20°to +70°C