

Cat6 U/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.

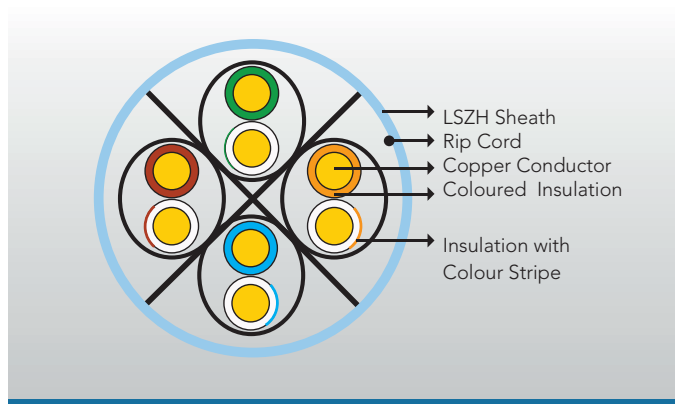
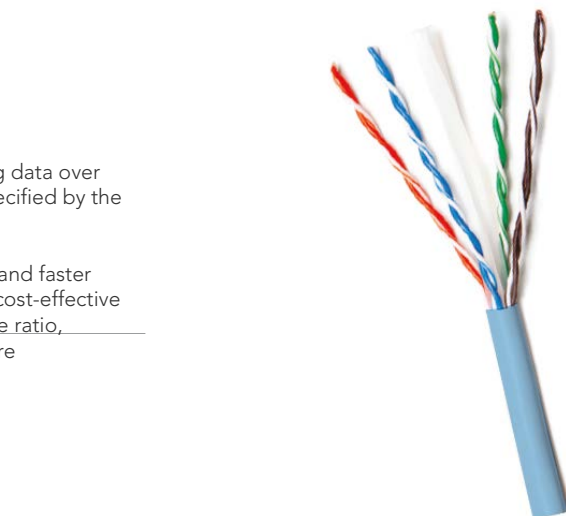
As streaming video and multimedia over LAN are gaining popularity, users demand faster data transmission and reduced waiting time. D-Link cables are ideal for simple, cost-effective and high-speed transmission performance. They support a higher signal-to-noise ratio, providing better reliability for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

CABLE FEATURES

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).

CONSTRUCTION

Conductor	: 23 AWG Solid bare Copper
Insulation	: High Density Polyethylene
Pairs	: 2 Insulated conductors twisted together
Sheath	: LSZH
Cable Diameter	: 6 mm nominal



ELECTRICAL CHARACTERISTICS

Characteristic Impedance	: 100 + 15Ω
Mutual Capacitance	: <5.6nF/100m
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: 330pF/100m
Delay Skew	: < 45nS
Conductor Resistance	: <9.381Ω/100m
Nominal Velocity of Propagation	: 69%

COLOUR CODE

<u>PAIR NO</u>	<u>COLOUR</u>
1-2	White & Orange
3-6	White & Green
4-5	White & Blue
7-8	White & Brown

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TRANSMISSION CHARACTERISTICS

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

APPROVAL/CERTIFICATIONS

- Verified compliant with TIA/EIA-568C.2 standards by ETL
- CUL listed
- RoHs

MECHANICAL CHARACTERISTICS

Bending Radius	: < 8 x Cable Diameter at -20°C ± 1°C
Pulling Force	: 11.5 Kgs
Temperature Range	: -20° to +70°C

ORDERING INFORMATION

Product No.	Description	Color	Sheath
NCB-C6ULBUR-305-LS	Cat6 UTP 23 AWG solid, 305 Mtr/Roll	Blue	LSZH
NCB-C6UGRYR-305-LS	Cat6 UTP 23 AWG solid, 305 Mtr/Roll	Grey	LSZH