

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-568.2-D 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

CABLE FEATURES

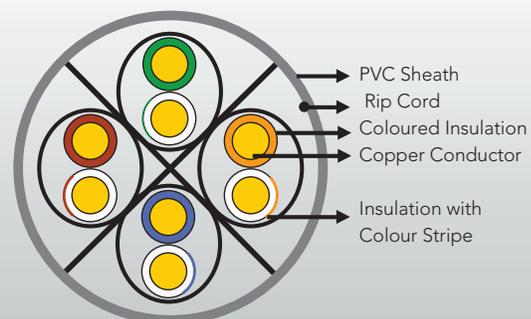
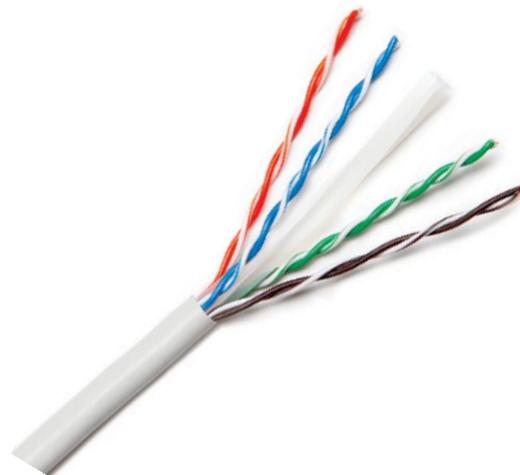
CAT6 cables reduce crosstalk and system noise. The superior insulation around the 24 AWG copper wires attribute to the increased performance. They can transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T / 1000BASE-TX (Gigabit Ethernet).

CONSTRUCTION

Conductor	: 24 AWG Solid bare Copper
Insulation	: High Density Polyethylene
Pairs	: 2 Insulated conductors twisted together
Sheath	: PVC
Cable Diameter	: 5.8 ± 0.2mm 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 Stripe and Orange
3-6	White-Green Stripe and Green
4-5	White-Blue Stripe and Blue
7-8	White-Brown Stripe and Brown

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TRANSMISSION CHARACTERISTICS

Frequency (MHz)	Insertion Loss (dB/100m)	RL (dB)	NEXT(dB)	PSNEXT(dB)	ACR(dB)	PSACR(dB)
1	1.9	19.1	65.0	62.0	64.2	61.2
4	3.5	21.0	64.1	61.8	52.1	49.1
8	5.0	21.0	59.4	57.0	46.1	43.1
10	5.5	21.0	57.8	55.5	44.2	41.2
16	7.0	20.0	54.6	52.2	40.1	37.1
20	7.9	19.5	53.1	50.7	38.2	35.2
25	8.9	19.0	51.5	49.1	36.2	33.2
31.25	10.0	18.5	50.0	47.5	34.3	31.3
62.5	14.4	16.0	45.1	42.7	24.2	25.3
100	18.6	14.0	41.8	39.3	24.5	21.2
200	27.4	11.0	36.9	34.3	18.2	15.2
250	31.1	10.0	35.3	32.7	16.2	13.2

MECHANICAL CHARACTERISTICS

Bending Radius	: < 4 x Cable Diameter at -20°C ± 1°C
Pulling Force	: 11.5 Kgs
Temperature Range	
Operation	: -20° to +70°C
Installation	: 0° to +50°C

ORDERING INFORMATION

Product Code	Description	Colour	Sheath
NCB-C6UGRYR-305-24-E	Cat6 UTP 24 AWG Enhanced PVC Solid Cable - 305m/Roll	Grey	PVC