



## Cat5E 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 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.

### CAT5E UTP CABLE

The Category 5E cable, an enhanced version of Category 5, adheres to more stringent standards specified by TIA/EIA-568C.2 and IEC 60603-7-4. These cables are made using 24 gauge (AWG) copper wires with about three twists per inch enabling them to transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 100 MHz. They are suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T Gigabit Ethernet.

### SPECIFICATIONS

- 4 Pairs Unshielded Twisted Pair (UTP) Cable
- Conductor Metal: Solid Bare Copper
- Color Code: Blue/ Grey
- Conductor Diameter: 0.5mm Nominal, 24 AWG
- Insulation Diameter: 0.860 Nominal, Insulation Material: HD-PE
- Jacket Material: PVC UL94V-0
- Cable Diameter: 5.0mm nominal

### APPROVAL / CERTIFICATION

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

### TECHNICAL DETAILS

- Mutual Capacitance: 5.6nF/100m nominal
- Characteristic Impedance: 100Ω±15%
- Nominal Velocity of Propagation: 69%
- Conductor Resistance: < 9.80Ω/100m
- Resistance Unbalance: 5 % Max
- Capacitance Unbalance: 330pF/100m
- Delay Skew: < 45nS
- Bending Radius: < 4 X Cable Diameter (mm) at -20°C ± 1°C
- Pulling Force: 100 N
- Temperature Range: -20°to +70°C

### 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	65.3	62.3	63.8	60.8	63.3	60.3
4	4.1	23.0	56.3	53.3	51.8	48.8	52.2	49.2
8	5.8	24.5	51.8	48.8	45.7	42.7	46.0	43.0
10	6.5	25.0	50.3	47.3	43.8	40.8	43.8	40.8
16	8.2	25.0	47.2	44.2	39.7	36.7	39.0	36.0
20	9.3	25.0	45.8	42.8	37.8	34.8	36.5	33.5
25	10.4	24.2	44.3	41.3	35.8	32.8	33.9	30.9
31.25	11.7	23.3	42.9	39.9	33.9	30.9	31.2	28.2
62.5	17.0	20.7	38.4	35.4	27.9	24.9	21.4	18.4
100	22.0	19.0	35.3	32.3	23.8	20.8	13.3	10.3

Product No.	Description	Color
NCB-5EUBLUR-305	Cat5E UTP 24 AWG solid, 305 Mtr/Roll	Blue
NCB-5EUGRYR-305	Cat5E UTP 24 AWG solid, 305 Mtr/Roll	Gray