



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-100	Cat5E UTP 24 AWG solid, 100 Mtr/Roll	Gray
NCB-5EUGRYR-305	Cat5E UTP 24 AWG solid, 305 Mtr/Roll	Gray