



## Cat6A 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-568B.2 / 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.

### CAT6A (AUGMENTED) CABLE

Cat6A cable is specified by TIA/EIA-568C.2 for enhanced performance standards for twisted pair cable systems. It performs at improved specifications, practically in the area of alien crosstalk as compared to category 6. These cables are made of 23 AWG copper wires with a frequency of 500MHz can transmit data at 10 BASE-T, 100BASETX, 1000BASE-T and 10G BASE-T (Gigabit Ethernet).

### FEATURES

- Complies with Cat6 specifications
- 4 Pairs Unshielded Twisted Pair (UTP) Cable
- 23 AWG solid copper conductors with a frequency of 500 MHz
- Packaged in an easy to pull box for easier installation

### APPLICATION

- 10BASE-T, 100BASE-TX Fast Ethernet, 1000BASE-T (IEEE802.3)
- 100VG-AnyLAN (IEEE802.12)
- 550 MHz Broadband Video
- Voice, T1, ISDN
- 155/ 622 Mbps ATM
- Power over Ethernet (POE)

### SPECIFICATIONS

- Conductor Metal: Bare Copper
- Color Code: Gray
- Conductor: 23 AWG(0.574 ±0.007mm), Multi-cores (Solid)
- Insulation Material: HD-PE, OD: 1.04 ±0.05mm, Average Thickness: 0.23 mm
- Jacket hardness: 45P (90A ± 2A, Shore)
- Jacket Material: PVC UL94V-0, OD: 6.6mm ±0.2, Average Thickness: 0.6 mm
- PE Central Cross

### TECHINICAL DETAILS

- Heat-resistant: 75°C minimum (Temperature limited)
- Flame Property: The purpose of the vertical flame test is to screen out flammable wires. It follows the VW-1 (UL) and FT-1 (CSA) standards.
- Mutual Capacitance: 5.6nF/100m nominal
- Characteristic Impedance: 100Ω±15%
- Nominal Velocity of Propagation: 69%
- Operating Temperature: -20<sup>o</sup>-60<sup>o</sup>(-4<sup>o</sup>-140<sup>o</sup>)
- Storage Temperature: -20<sup>o</sup>-80<sup>o</sup>(-4<sup>o</sup>-176<sup>o</sup>)

### APPROVAL / CERTIFICATION

- UL 444 (for Copper conductor)
- UL 758/ Style 2835
- UL 1581 (Test standard)
- Verified compliant with TIA/EIA-568B.2 standards by ETL
- D-Link Product Hazardous Substance Management
- CUL listed
- RoHS

| Product No.     | Description                          | Color |
|-----------------|--------------------------------------|-------|
| NCB-6AUGRYR-305 | Cat6A UTP 23 AWG solid, 305 Mtr/Roll | Gray  |