

TX6000™ Enhanced Category 6 U/UTP Copper Cable

SPECIFICATIONS

Category 6 cable shall exceed ANSI/TIA-568.2-E and IEC 61156-5 Category 6 component Standards. The conductors shall be 23 AWG construction with FEP/polyolefin insulation. The copper conductors shall be twisted in pairs, separated by a cross-divider and covered by a low smoke, flame-retardant (CMP) jacket.



TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E Standards at swept frequencies up to 250 MHz Certified component performance up to 100m and exceeds the component requirements of ANSI/TIA-568.2-E and IEC 61156-5 Category 6 component Standards at swept frequencies up to 250 MHz
Standards compliance:	UL Listed CMP-LP (0.5A)
Conductors/insulators:	23 AWG bare copper wire covered by FEP/polyolefin insulation
Insulation diameter:	0.034 in. – 0.044 in. (0.86mm – 1.12mm)
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	25 lbf (110 N) maximum
Temperature rating:	32°F to 122°F (0°C to 50°C) during installation -4°F to 194°F (-20°C to 90°C) during operation
Cable jacket:	Low smoke, flame-retardant PVC
Cable diameter:	0.225 in. (5.7mm) nominal
Cable weight:	28 lbs./1000 ft. (13 kg/305m)
Packaging:	1000 ft. (305m) reel-in-box Package tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Third-party tested:	Cable has been tested as part of the TX6000 U/UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following Standard: ANSI/TIA-568.2-E Category 6
Guaranteed channel performance above the standards:	Industry leading guaranteed channel performance exceeds the TIA/ISO Standards with headroom guaranteed
Integrated pair divider:	Separates pairs for exceptional cable performance
Tested beyond the standards:	Cable has been characterized to 650 MHz, 400 MHz above the Standard
Extended temperature range:	Allows operation in 90°C (194°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications
Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap

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CMP: PUP6004**-ULPZ

**Colors: BU (Blue), WH (White), YL (Yellow), IG (International Gray), BL (Black), RD (Red), GR (Green), OR (Orange), or VL (Violet).



All listed part numbers are compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to customers in the United States.

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APPLICATIONS

TX6000 U/UTP Copper Cable is a component of the TX6000 Copper Cabling System. Interoperable and backward compatible, this end-to-end system provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568.2-E Category 6 and ISO 11801 Class E Standards, this system will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 10GBASE-T (10 Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token Ring 4/16

ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate breaking strength:	> 90 lbf (400 N)
Minimum bend radius:	4 x cable diameter
Electrical Test	
Nominal velocity of propagation (NVP):	71% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWINGS

