

TX6000™ Enhanced Category 6 U/UTP Copper Cable

SPECIFICATIONS

Category 6 cable shall exceed IEC 61156-5 and ANSI/TIA-568.2-E Category 6 component standards. The conductors shall be 23 AWG construction with HDPE insulation. The copper conductors shall be twisted in pairs, with all four pairs separated by a cross-divider and covered by a flame retardant PVC (CM) jacket.



TX6000 U/UTP Copper Cable

CM: PUC6004**-ME

**To designate a color, add suffix BU (Blue), WH (White), YL (Yellow), IG (International Gray), BL (Black), RD (Red), GR (Green), OR (Orange), or VL (Violet).

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds ISO 11801 Class E and ANSI/TIA-568.2-E Category 6 standards at swept frequencies up to 250 MHz Certified component performance up to 100m and exceeds the component requirement of IEC 61156-5 and ANSI/TIA-568.2-E Category 6 component standards at swept frequencies up to 250 MHz
Conductor/ insulator:	23 AWG solid copper insulated with HDPE
Flame rating:	UL 1685
Insulation diameter:	0.93mm - 1.03 mm (0.037 in. - 0.041 in.)
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (-4°F to 167°F) during operation
Cable jacket:	Flame retardant PVC (CM)
Cable diameter:	6.0mm (0.236 in.) nominal
Cable weight:	12 kg/305m (27 lbs./1000 ft.)
Packaging:	305m (1000 ft.) Reelex™ easy payout box Package tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Third party tested:	Cable has been tested as part of the TX6000 Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standards: ISO/IEC 11801, EN 50173-1, and ANSI/TIA-568.2-E
Guaranteed channel performance above the standard:	Industry leading channel performance above the TIA/ISO standards with headroom guarantee
Cross-divider:	Separates pairs for exceptional cable performance
Reelex™ packaging:	Ensures proper performance and provides quick installation
Tested beyond the standards:	Cable has been characterized to 550 MHz, 300 MHz above the standard
Descending length markings:	Easy identification of remaining cable reduces installation cable time and cable scrap

TX6000™ Enhanced Category 6 U/UTP Copper Cable

APPLICATIONS

TX6000 U/UTP Copper Cable is a component of the Panduit 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 ISO 11801 Class E and ANSI/TIA-568.2-E Category 6 standards, this system is ideal for today's high performance workstation applications. Usage of the TX6000 Copper Cabling System include:

- 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:	> 400 N (90 lbf)
Minimum bend radius:	4 x cable diameter
Electrical Test	
DC Resistance:	<9.38 Ohm per 100m (328 ft.)
DC Resistance Unbalance:	<5%
Mutual Capacitance:	<5.6 nF per 100m (328 ft.) at 1 kHz
Capacitance Unbalance:	<330 pF per 100m (328 ft.) at 1 kHz
Characteristic Impedance:	100 Ohm +/-15% up to 100 MHz
Nominal velocity of propagation (NVP):	68% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWINGS

