

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.



TX6000 U/UTP Category 6 Copper Cable

CMP: PUP6004**-WLPZ

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

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
Conductor/insulator:	23 AWG solid copper wire covered by FEP/polyolefin insulation
Flame rating:	NFPA 262 and CSA FT-6
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	25 lbf (110 N) maximum
Standards compliance:	UL Listed CMP-LP (0.5A)
Insulation diameter:	0.034 in. - 0.042 in. (0.86mm - 1.07mm)
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 90°C (-4°F to 194°F) during operation
Cable jacket:	Low smoke, flame-retardant PVC (CMP)
Cable diameter:	0.228 in. (5.8mm) nominal
Cable weight:	27 lbs./1000 ft. (12 kg/305m)
Packaging:	1000 ft. (305m) easy-pay-out 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 standard: ANSI/TIA-568.2-E Category 6
Guaranteed channel performance above the standards:	Industry leading guaranteed channel performance above 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 550 MHz, 300 MHz above the standard
Descending length cable markings:	Easy identification of remaining cable reduces installation 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 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):	68% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWING

