TX6000™ Enhanced Category 6 U/UTP Copper Cable

PANDUIT™
SPECIFICATION SHEET

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, separated by a cross divider, and all four pairs shall be covered by a LSZH jacket.



TX6000 U/UTP Copper Cable	
LSZH:	**PUL6004**-ME**

****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 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 requirements 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
Insulation diameter:	0.94mm - 1.04mm (0.037 in. - 0.041 in.)
Flame rating:	IEC 60332-1, IEC 60332-3-22, IEC 60754, IEC 61034
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110N (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:	LSZH
Cable diameter:	6.1 mm (0.240 in.)
Cable weight:	13 kg/305m (29 lbs./1000 ft.)
Packaging:	305m (1000 ft.) easy-pay-out box Packaged 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 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
Reduced attenuation:	Maximizes the amount of signal that reaches the receiver and increases bandwidth
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

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APPLICATIONS

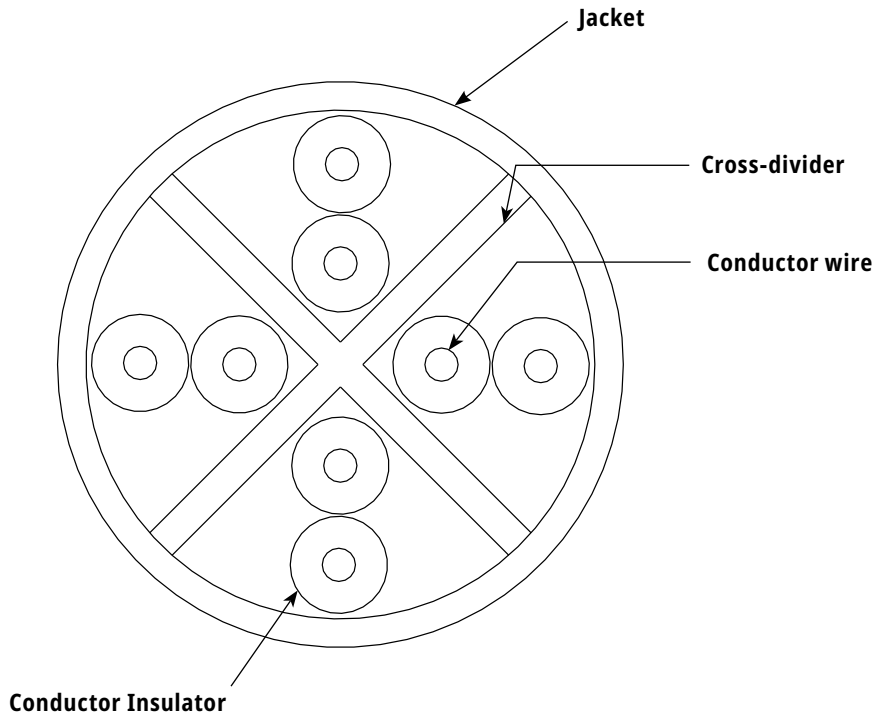
TX6000 U/UTP Copper Cable is a component of the Panduit TX6000 Copper Cabling System. Interoperable and backward compatible, this end-to-end system provides design flexibility to protect network investments well into the future. With certified performance to the ISO 11801 Class E standards and ANSI/TIA/EIA-568.2-E Category 6, this system is ideal for today's high performance workstation applications. Usage of the TX6000 Copper Cabling System includes:

- 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	
Nominal velocity of propagation (NVP):	67% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWING



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