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TX6000™ Enhanced Unshielded 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 PE insulation. The copper conductors shall be twisted in pairs and all four pairs shall be covered by a LSFRZH jacket.



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LSFRZH:	**PUY6004**-HE**

****Colours: 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 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 PE
Insulation diameter:	0.94mm – 1.06mm (0.037 in. – 0.042 in.)
Flame rating:	IEC 60332-1, IEC 60754, IEC 61034, EN 50575: Cca-s1a,d1,a1
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:	LSFRZH
Cable diameter:	5.8mm (0.232 in.) nominal
Cable weight:	13 kg/305m (29 lbs./1000 ft.)
Packaging:	305m (1000 ft.) easy payout carton Package tested to ISTA procedure 1A

KEY FEATURES AND BENEFITS

Third-party tested:	Cable is 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 11801 Class E, EN 50173-1, and ANSI/TIA-568.2-E Category 6
Guaranteed channel performance above the standards:	Industry leading channel performance above the TIA/ISO standards with headroom guarantee
Reduced attenuation:	Maximizes the amount of signal that reaches the receiver and increases bandwidth
Reelex packaging:	Enables proper performance and provides quick installation
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

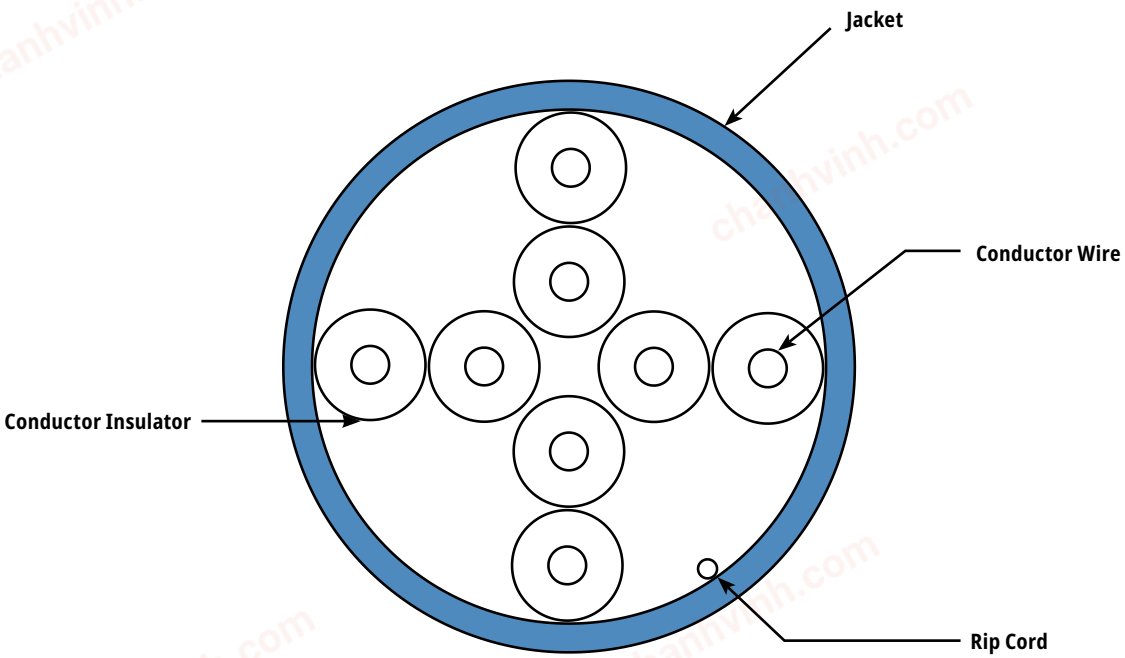
TX6000 U/UTP Copper Cable is a component of the TX6000 Copper Cabling System. Interoperable and backward compatible, this end-to-end system provides design flexibility to protect network investments well into the future. With certified performance to the ISO 11801 Class E standards and ANSI/TIA-568.2-E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