

TX6000™ Enhanced Category 6 U/UTP Copper Cable

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6 cable shall exceed ANSI/TIA-568.2-D 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 100 meters and exceeds ANSI/TIA-568.2-D Category 6 and ISO 11801 Class E Standards at swept frequencies up to 250 MHz Certified component performance up to 100 meters and exceeds the component requirements of ANSI/TIA-568.2-D 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:	0.036 in. – 0.042 in. (0.91mm – 1.07mm)
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) in Reellex™ easy payout carton 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-D 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

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-D 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



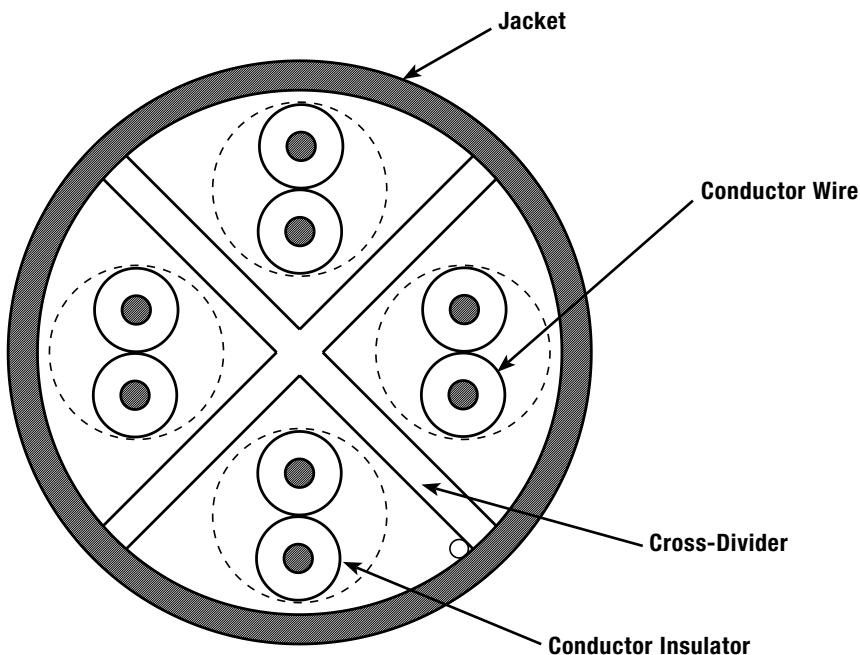
All Part Numbers Compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to the United States.

TX6000™ Enhanced Category 6U/UTP Copper Cable

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)	CMP — 70%
Operating Voltage, Maximum	80 V

CABLE CONSTRUCTION



WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

PANDUIT®

© 2024 Panduit Corp.
ALL RIGHTS RESERVED.
COSP542-WW-ENG
4/2024