

TX6000™ Enhanced Category 6 U/UTP Copper Cable

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"–0.042" (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" (5.7mm) nominal
Cable weight:	28 lbs./1000' (13 kg/305m)
Packaging:	1000' (305m) in an 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
Reelex™ packaging:	Compact carton ensures proper performance and provides quick installation
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

TX6000 U/UTP Copper Cable

Plenum: PUP6004**-WLPZ

Cable Prep Tools

Cable snipping tool: CWST

Wire stripping tool: CJUST

**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).

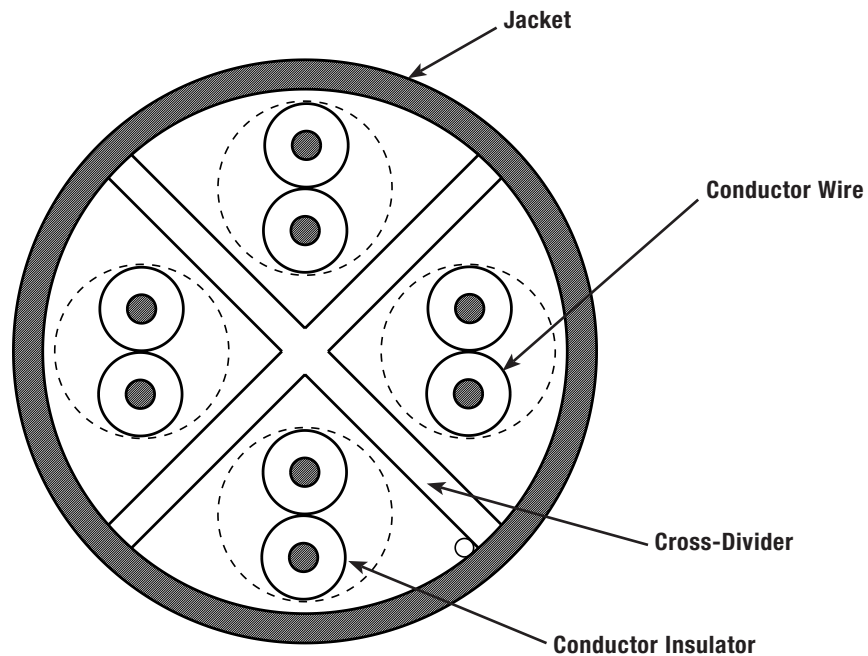
Visit www.panduit.com for connectivity components.

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additional specifications

Mechanical Test	
Ultimate Breaking Strength	>90 lbf (400 N)
Minimum Bend Radius	4 × cable diameter
Electrical Test	
Nominal Velocity of Propagation (NVP)	CMP — 70%
Operating Voltage, Maximum	80 V

cable construction



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