

TX6000™ Enhanced Category 6 U/UTP Copper Cable – North America

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" (0.91-1.07mm)
Flame rating:	Plenum – 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
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:	Plenum – 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

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-D
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
EZ-Brake™ Reel-in-a-Box:	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**-ULPZ

Cable Prep Tools

Wire 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).

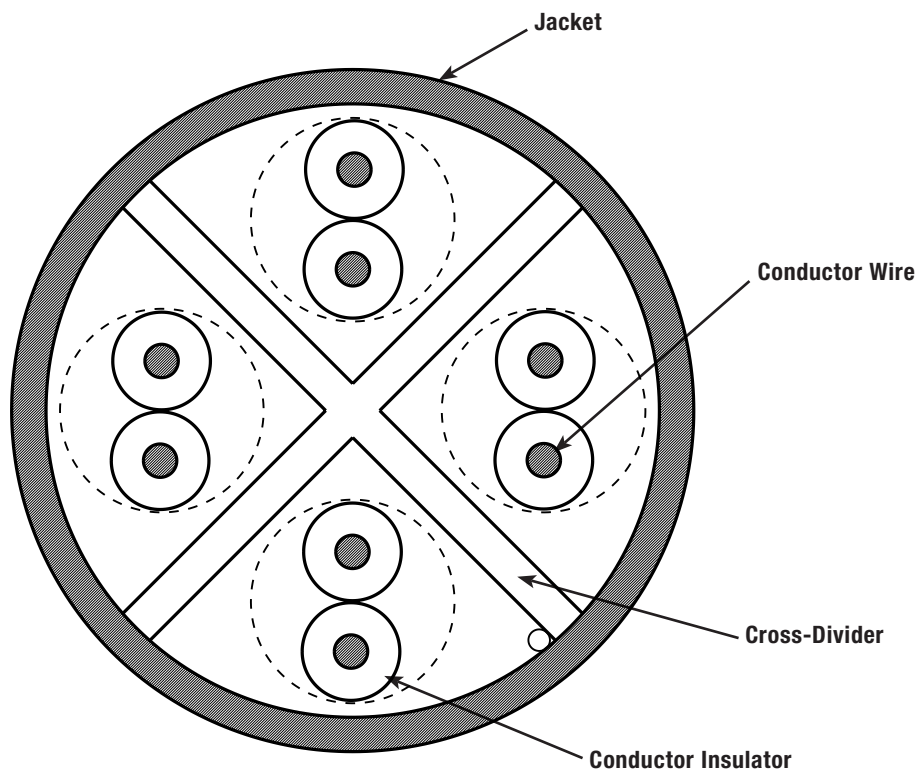
Visit www.panduit.com for connectivity components.

TX6000™ Enhanced Category 6 U/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	80V

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

PANDUIT®

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

© 2023 Panduit Corp.
ALL RIGHTS RESERVED.
COSP546-WW-ENG
5/2023

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Panduit:](#)

[PUP6004BL-ULPZ](#) [PUP6004IG-ULPZ](#) [PUP6004OR-ULPZ](#) [PUP6004BU-ULPZ](#) [PUP6004WH-ULPZ](#) [PUP6004YL-](#)
[ULPZ](#) [PUP6004RD-ULPZ](#) [PUP6004VL-ULPZ](#) [PUP6004GR-ULPZ](#)