

TX6™ Category 6 U/UTP Copper Cable

specifications

Category 6 cable shall meet ANSI/TIA-568-2.D Category 6 component Standard. The conductors shall be 23 AWG construction with FEP/polyolefin insulation. The copper conductors shall be twisted in pairs and covered by a low smoke, flame-retardant (CMP) PVC jacket.



technical information

Electrical performance: Certified channel performance in a 4-conductor configuration up to 100 meters and meets ANSI/TIA-568-2.D Category 6 Standard at swept frequencies up to 250MHz
Certified component performance up to 100 meters and meets the component requirements of ANSI/TIA-568-2.D Category 6 component Standard at swept frequencies up to 250 MHz

Standards compliance: UL Listed CMP-LP (0.6A)

Conductors/insulators: 23 AWG solid copper covered by FEP/polyolefin insulation

Insulation diameter: 0.033" – 0.043" (0.83mm – 1.09mm)

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 (110N) maximum

Temperature rating: 32°F to 122°F (0°C to 50°C) during installation
-4°F to 221°F (-20°C to 105°C) during operation

Cable jacket Low smoke, flame-retardant PVC

Cable diameter: 0.205" (5.2mm) nominal

Cable weight: 25 lbs./1000' (12 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 Category 6 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 exceeding the TIA/ISO Standards with headroom guaranteed

Descending length cable markings: Easy identification of remaining cable reduces installation cable markings time and cable scrap

Tested beyond the Standards: Cable has been characterized to 550 MHz, 300 MHz above the Standard

Extended temperature range: Allows operation in 105°C (221°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications

Reellex™ packaging: Compact carton ensures proper performance and provides quick installation

applications

Interoperable and backward compatible, the TX6 U/UTP Cabling 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

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Plenum: PUP6C04**-WLPZ

Cable Prep Tools

Wire snipping tool: CWST

Wire stripping tool: CJAST

**For standard cable colors, add suffix BU (Blue), WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), or BL (Black).

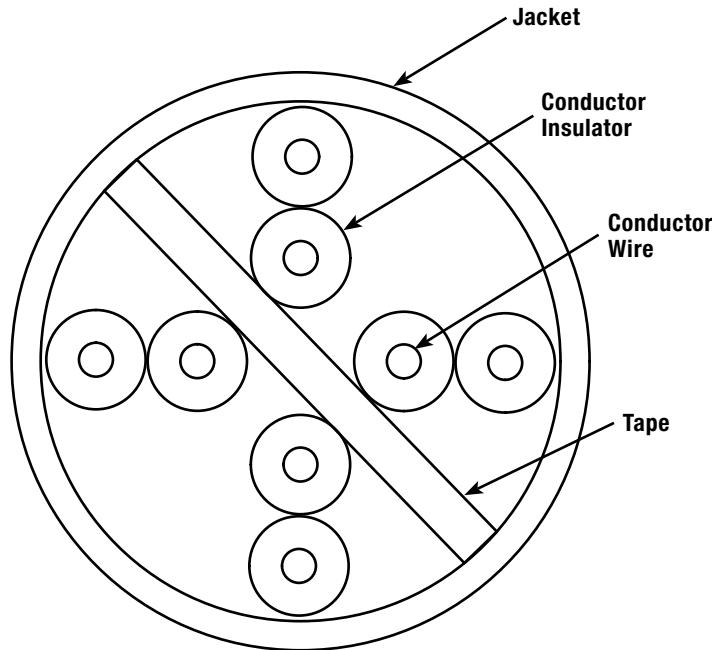
Visit www.panduit.com for connectivity components.

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additional specifications

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

cable construction



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