

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).

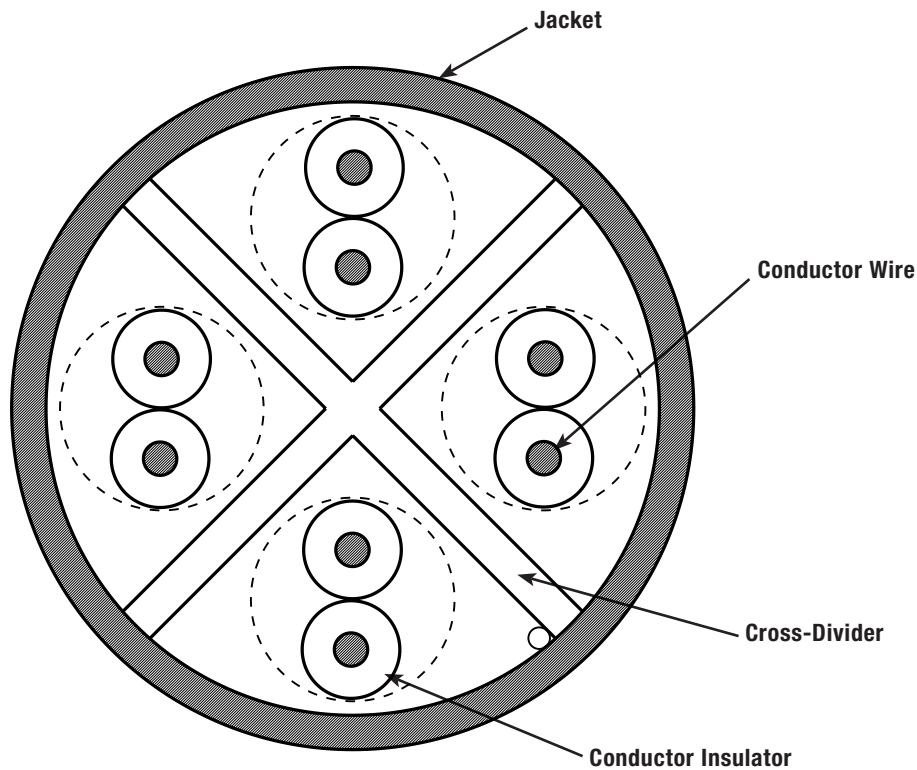
Visit www.panduit.com for connectivity components.

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



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