

# TX6000™ Enhanced Category 6 U/UTP Copper Cable

## specifications

Category 6 cable shall exceed IEC 61156-5 and ANSI/TIA-568-C.2 Category 6 component standards. The conductors shall be 23 AWG construction with HDPE insulation. The copper conductors shall be twisted in pairs, with all four pairs separated by a cross-divider and covered by a flame-retardant PVC (CMR) jacket.



## technical information

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 standards at swept frequencies up to 250 MHz
	Certified component performance up to 100 meters and exceeds the component requirement of IEC 61156-5 and ANSI/TIA-568-C.2 Category 6 component standards at swept frequencies up to 250 MHz
<b>Conductor/insulator:</b>	23 AWG solid copper insulated with HDPE
<b>Flame rating:</b>	UL 1666
<b>PoE compliance:</b>	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
<b>Installation tension:</b>	110 N (25 lbf) maximum
<b>Temperature rating:</b>	0°C to 50°C (32°F to 122°F) during installation -20°C to 60°C (-4°F to 140°F) during operation
<b>Cable jacket:</b>	Flame retardant PVC
<b>Cable diameter:</b>	5.7mm (0.225 in.) nominal
<b>Cable weight:</b>	12 kg/305m (25 lbs./1000 ft.)
<b>Packaging:</b>	305m (1000 ft.), Reelex™ packaging Package tested to ISTA Procedure 1A

## key features and benefits

<b>Third party tested</b>	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 standards: ISO 11801 and ANSI/TIA-568-C.2
<b>Guaranteed channel performance above the standard</b>	Industry leading channel performance above the TIA/ISO standards with headroom guarantee
<b>Cross-divider</b>	Separates pairs for exceptional cable performance
<b>Reelex™ packaging</b>	Ensures proper performance and provides quick installation
<b>Tested beyond the standards</b>	Cable has been characterized to 550 MHz, 300 MHz above the standard
<b>Descending length markings</b>	Easy identification of remaining cable reduces installation cable time and cable scrap

## applications

TX6000™ U/UTP Copper Cable is a component of the Panduit® 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 ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 standards, this system is ideal for today's high performance workstation applications. Usage of the TX6000™ Copper Cabling System include:

- 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

**www.panduit.com**

### TX6000™ Copper Cabling System

#### TX6000™ UTP Copper Cable

**CMR:** PUR6004BU-FE\*\*

#### Mini-Com® TX6™ UTP PLUS Jack Module

**Jack module:** CJ688TG\*\*

#### TX6™ PLUS UTP Patch Cords

**Meter lengths:** UTPSP^MY

**Foot lengths:** UTPSP^MY

#### DP6™ PLUS Angled Punchdown Patch Panels

**24-port, 1 RU:** DPA24688TGY

**48-port, 2 RU:** DPA48688TGY

#### DP6™ PLUS Flat Punchdown Patch Panels

**12-port:** DP12688TGY

**24-port, 1 RU:** DP24688TGY

**48-port, 2 RU:** DP48688TGY

#### GP6™ PLUS Category 6 Punchdown System

See website ([www.panduit.com](http://www.panduit.com)) or catalog for complete system information

#### Cable Prep Tools

**Wire snipping tool:** CWST

**Wire stripping tool:** CJUST

\*\*For standard colors other than BU (Blue), replace BU in part number with WH (White). Contact customer service for additional color options and regional availability.

\*\*To designate color, add suffix IW (Off White), EI (Electric Ivory), IG (International Gray), WH (White), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow), or VL (Violet).

^For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), GR (Green), YL (Yellow), OR (Orange), or VL (Violet) after the M in the part number. For example, the part number for a blue 15-meter patch cord is UTPCH15MBUY.

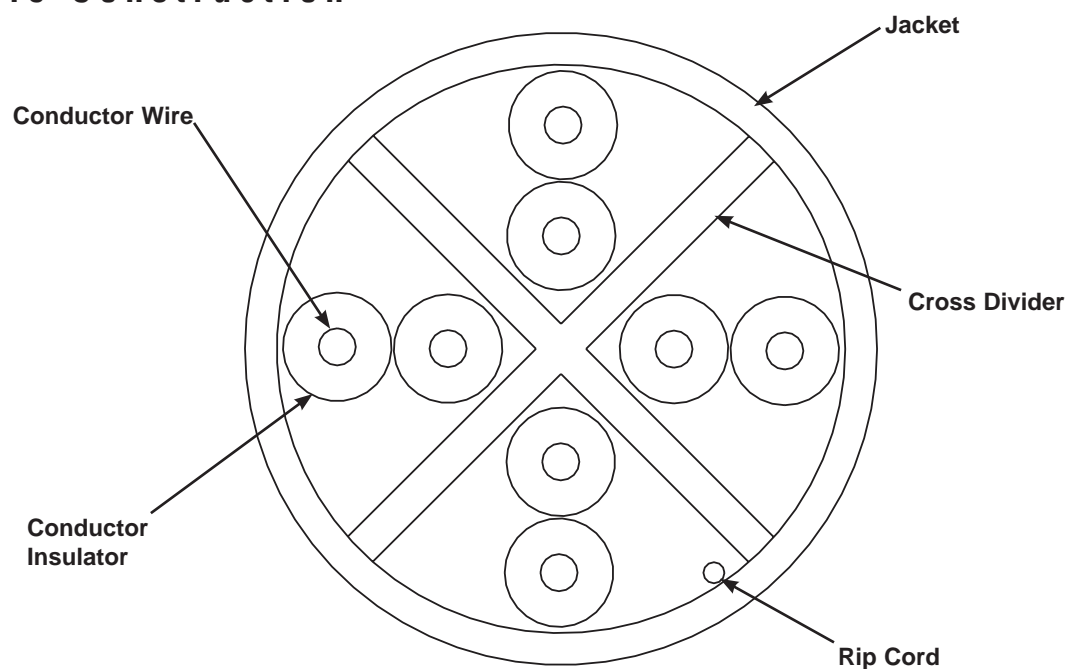
^For lengths 1 to 10 feet (increments of one foot) and 0.5, 1.5, 2.5, 15, 20, 25, 30, 35, 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet) before the Y at the end of the part number. For example, the part number for a blue 5-foot patch cord is UTPSP5BUY.

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## Additional Specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	4 x cable diameter
Electrical Test	
Nominal Velocity of Propagation (NVP)	67%
Operating Voltage, Maximum	80V

## Cable Construction



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