

# TX6000™ Category 6 Copper Cable – UTP

# PANDUIT®

SPECIFICATION SHEET

## specifications

Category 6 U/UTP cable shall exceed ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards. The conductors shall be 23 AWG copper insulated with HDPE. The copper conductors shall be twisted in pairs, separated by a cross-divider and covered by a low smoke zero halogen (LSZH) jacket.



## technical information

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of 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 the IEC 61156-5 and ANSI/TIA-568-C.2 Category 6 component standards at swept frequencies up to 250 MHz
<b>Conductors/insulators:</b>	23 AWG solid copper insulated with HDPE
<b>Flame rating:</b>	LSZH – IEC 60332-3-25 (-3d), IEC 60754-1 and -2, IEC 61034-2, NBN C 30-004 (F2) EN50575: Euroclass Dca – s1a, d2, a1
<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 75°C (-4°F to 167°F) during operation
<b>Cable jacket:</b>	LSZH – Low Smoke Zero Halogen
<b>Cable diameter:</b>	6.2mm (0.244 in.) nominal
<b>Cable weight:</b>	13 kg/305m (29 lbs./1000 ft.)
<b>Packaging:</b>	Packaged 305 meters (1000 feet) or 500 meters (1640 feet) on a reel Package tested to ISTA Procedure 1A

## key features and benefits

<b>Third party tested</b>	Cable has been tested as part of the TX6000™ Category 6 U/UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards
<b>Integrated pair divider</b>	Separates pairs for exceptional cable performance
<b>Descending length cable markings</b>	Easy identification of remaining cable reduces installation time and cable scrap
<b>Tested beyond the standards</b>	Cable has been characterized to 550 MHz, 300 MHz above the standard
<b>Packaged on a reel</b>	Ensures proper performance and provides quick installation

## applications

TX6000™ U/UTP Copper Cable is a component of the Panduit® TX6000™ U/UTP Copper Cabling System. This end-to-end system provides Gigabit Ethernet performance with usable bandwidth beyond 250 MHz. With certified performance to the ANSI/TIA-568-C.2 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)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token ring 4/16

### TX6000™ UTP Copper Cabling System

#### TX6000™ UTP Copper Cable

**LSZH:** PUZ6004\*

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

**Jack module:** CJ688TGIW\*\*

#### TX6™ PLUS UTP Patch Cords – LSZH

**Meter lengths:** UTPSPL^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, 1 RU:** DP12688TGY

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

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

#### Mini-Com® Angled Flush Mount Modular Patch Panels

**24-port, 1 RU:** CPPA24FMWBLY

**48-port, 2 RU:** CPPA48FMWBLY

#### Mini-Com® Flat Flush Mount Modular Patch Panels

**24-port, 1 RU:** CPP24FMWBLY

**48-port, 2 RU:** CPP48FMWBLY

#### Termination and Cable Prep Tools

**Termination tools:** EGJT or TGJT

**Wire stripping tool:** CWST

**Wire stripping tool:** CJAST

\*Color and pallet configurations:  
Replace \* with BU-CEG (Blue) or WH-CEG (White) to designate that color in a Euro pallet of 24 reels, 305m each.  
Replace \* with BU-CED (Blue) or WH-CED (White) to designate that color in a Euro pallet of 18 reels, 500m each.

\*\*To designate color, replace suffix IW (Off White) with AW (Arctic White), EI (Electric Ivory), IG (International Gray), WH (White), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow), or VL (Violet).  
Add -24 to end of part number for 24-pack convenience package.

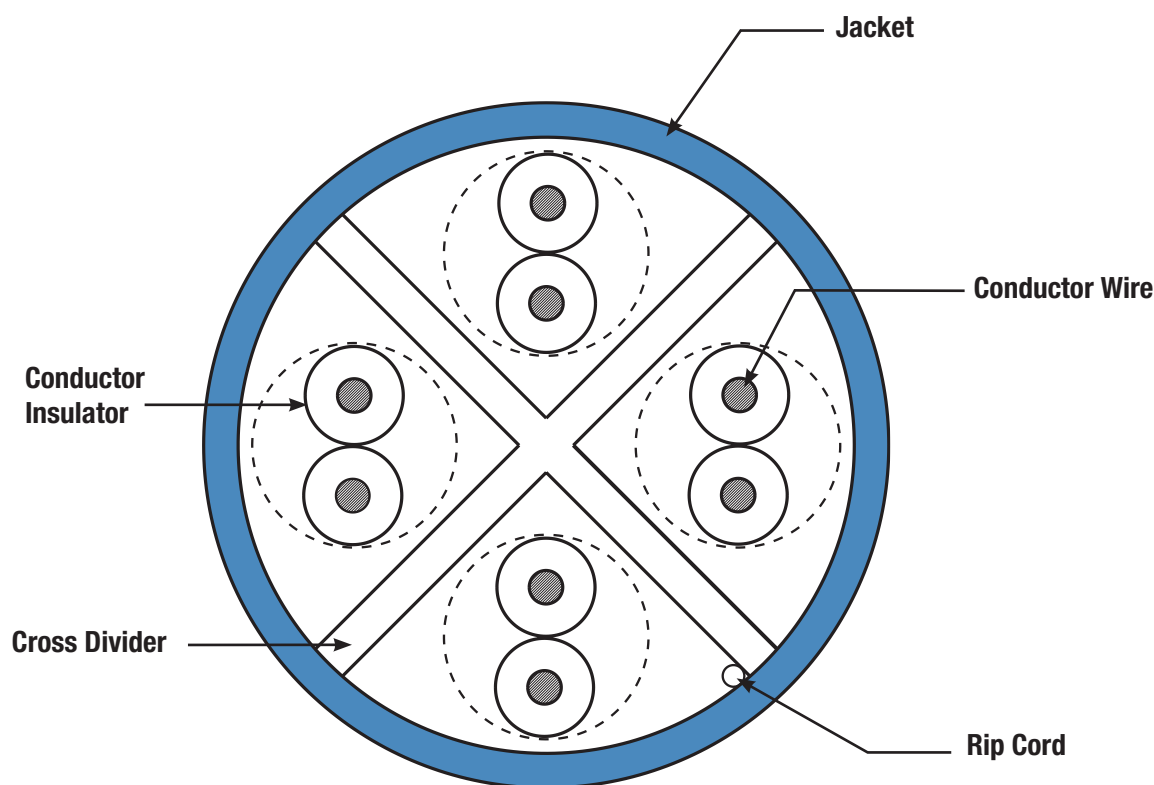
^For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), GR (Green), YL (Yellow), OR (Orange), or VL (Violet) after the M in the part number. For example, the part number for a blue 15-meter patch cord is UTPSPL15MBUY.

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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)	65%
Operating Voltage, Maximum	80V

## cable construction



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