

# 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 (CMP) insulation. The copper conductors shall be twisted in pairs, separated by a cross-divider and covered by a low smoke, flame-retardant (CMP) jacket or a flame-retardant (CMR) jacket.



## technical information

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 100m 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 100m 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
<b>Standards compliance:</b>	UL Listed CMP-LP (0.5A) for Plenum
<b>Conductors/insulators:</b>	Plenum – 23 AWG bare copper wire covered by FEP/polyolefin insulation
<b>Flame rating:</b>	Plenum – NFPA 262 and CSA FT-6
<b>PoE compliance:</b>	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
<b>Installation tension:</b>	25 lbf (110 N) maximum
<b>Temperature rating:</b>	32°F to 122°F (0°C to 50°C) during installation -4°F to 194°F (-20°C to 90°C) during operation
<b>Cable jacket:</b>	Plenum – low smoke, flame-retardant PVC
<b>Cable diameter:</b>	Plenum - 0.225" (5.7mm) nominal
<b>Cable weight:</b>	Plenum – 28 lbs./1000' (13 kg/305m)
<b>Packaging:</b>	1000' (305m), in 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 Standard: ANSI/TIA-568.2-D
<b>Guaranteed channel performance above the standards</b>	Industry leading guaranteed channel performance above the TIA/ISO Standard with head room guaranteed
<b>Integrated pair 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>Extended temperature range</b>	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
<b>Descending length cable markings</b>	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 UTP Copper Cable

**Plenum:** PUP6004\*-WLP

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

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

### TX6™ PLUS UTP Patch Cords

**Foot lengths:** UTPSP3\*\*\*Y

**Meter lengths:** UTPSP1M\*Y

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

### 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).

\*\*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).

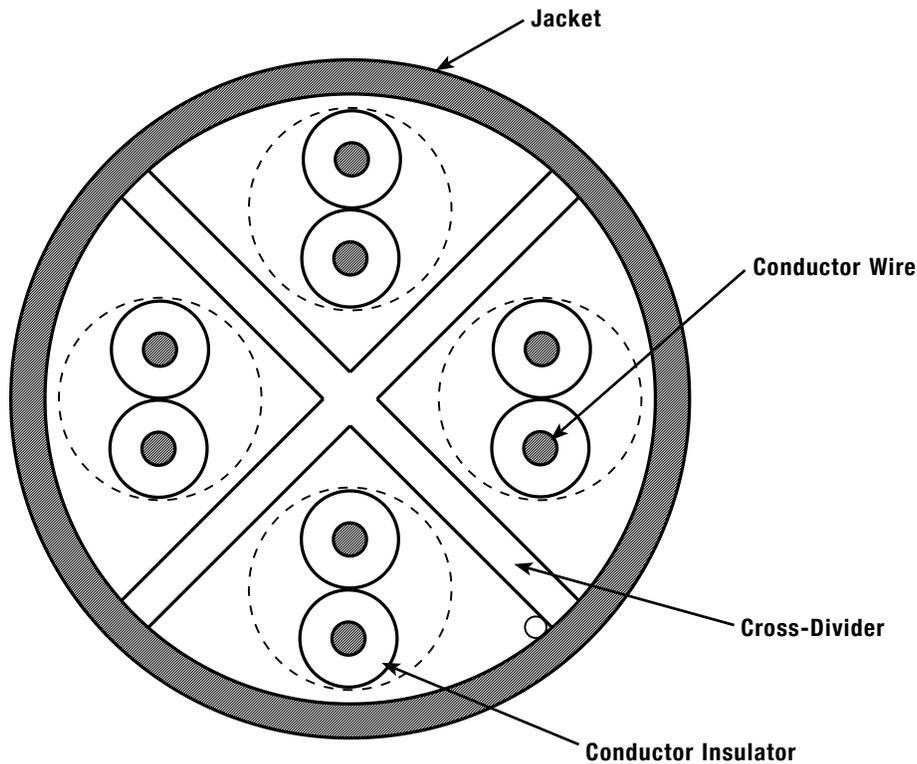
Country of Origin, Vietnam: PUP6004BU-WLP and PUP6004WH-WLP

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## 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 – 72%
Operating Voltage, Maximum	80V

## cable construction



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