

## specifications

Category 6A/Class E<sub>A</sub> cable shall meet the IEC 61156-5 and ANSI/TIA-568-C.2 Category 6A component standards. The conductors shall be 23 AWG with HDPE insulation. The copper conductors shall be twisted in pairs, separated by an integrated pair separator, and covered in a flame retardant PVC or low smoke zero halogen jacket.



## technical information

**Electrical performance:** Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E<sub>A</sub>, IEEE 802.3-2006, and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® TX6A™ 10Gig™ UTP Copper Cabling System

Certified component performance up to 100 meters and exceeds the component requirements of IEC 61156-5 Category 6A and ANSI/TIA-568-C.2 component standards for supporting 10GBASE-T transmission over twisted-pair cabling systems

<b>Conductor/insulator:</b>	23 AWG solid copper insulated with HDPE
<b>Flame rating:</b>	IEC 60332-1, UL 1685
<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>	Flame retardant PVC or LSZH
<b>Cable diameter:</b>	8.6mm (0.338 in.) nominal
<b>Cable weight:</b>	16 kg/305m (35 lbs./1000 ft.)
<b>Packaging:</b>	305m (1000 ft.) on a reel 18 kg/305m (40 lbs./1000 ft.) Package tested to ISTA procedure 1A

## key features and benefits

<b>Third party tested</b>	Cable has been tested as part of the TX6A™ 10Gig™ UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standards: ISO/IEC 11801:2002 amendment 1, Class E <sub>A</sub> , ISO/IEC TR 24750, ANSI/TIA-568-C.2, TSB-155 and IEEE 802.3an
<b>Cable filler</b>	Stranded with the core insulating pairs of the cable to increase separation of neighboring cables in a cable bundle
<b>Internal pair separator</b>	Separates individual pairs to maintain and ensure exceptional cable performance
<b>Descending length cable markings</b>	Easy identification of remaining cable to reduce installation time and cable scrap

## applications

TX6A™ 10Gig™ UTP Copper Cable is a component of the Panduit® TX6A™ 10Gig™ UTP 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 Category 6A ISO 11801 Class E<sub>A</sub> standards and ANSI/TIA-568-C.2, this system is ideal for today's high performance workstation applications.

Usage of the TX6A™ 10Gig™ UTP Copper Cabling System include:

- Ethernet 10GBASE-T
- Data Center applications
- Virtual business management applications

### TX6A™ 10Gig™ UTP Copper Cabling System

#### TX6A™ 10Gig™ UTP Copper Cable

**CM:** PUC6X04\*

#### Mini-Com® TX6A™ 10Gig™ UTP Jack Module

**Jack module:** CJ6X88TG\*\*

#### TX6A-SD™ 10Gig™ UTP Patch Cords with MaTriX Technology

**CM (foot lengths):** UTP6ASD^BU

**CM (meter lengths):** UTP6ASD^MBU

**LSZH (meter lengths):** UTP6ASDL^MBU

#### TX6A™ 10Gig™ UTP Patch Cords with MaTriX Technology

**Foot lengths:** UTP6A^BU

**Meter lengths:** UTP6A^MBU

#### DP6A™ 10Gig™ Angled Punchdown Patch Panels

**24-port, 1RU:** DPA246X88TG Y

**48-port, 2RU:** DPA486X88TG Y

#### DP6A™ 10Gig™ Flat Punchdown Patch Panels

**24-port, 1RU:** DP246X88TG Y

**48-port, 2RU:** DP486X88TG Y

#### Cable Prep Tools

**Wire snipping tool:** CWST

**Wire snipping tool:** CJAST

\*For color and pallet configurations, reference back page.

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

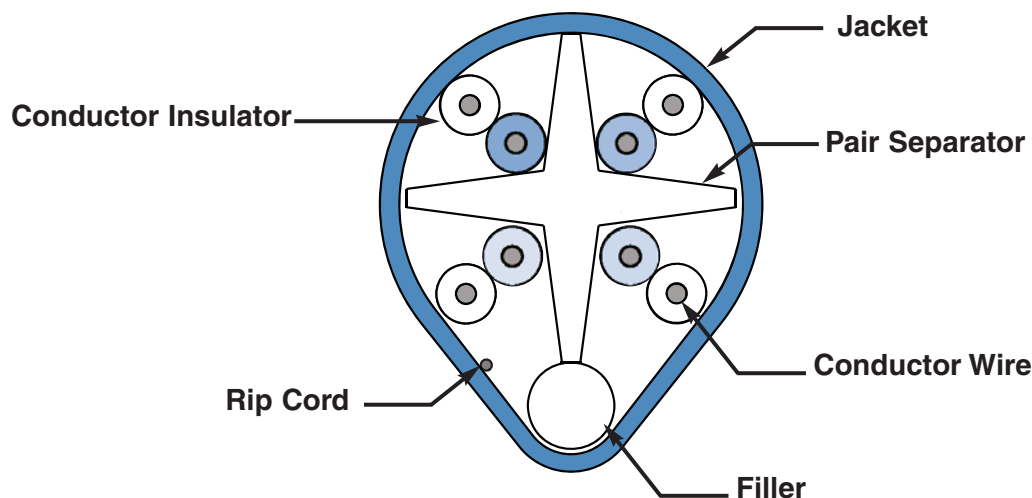
^For lengths 3 to 20 feet (increments of one foot) 20, 25, 30, 35 or 40 feet change the length designation in part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange) or VL (Violet) at the end of the part number. LSZH available in Off White and BU (Blue) only. For example, the part number for a blue 15-foot patch cord is UTP6ASD15BU.

^^For lengths 1, 2, 2.5, 3, 5 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), YL (Yellow), GR (Green), OR (Orange) or VL (Violet). LSZH patch cable available in Off White or BU (Blue). For example, the part number for a blue, 5-meter patch cord is UTP6ASD5MBU.

## Additional Specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	4 x cable diameter
Electrical Test	
DC Resistance	<9.38 Ohm per 100m (328 ft.)
DC Resistance Unbalance	5%
Mutual Capacitance	<5.6 nF per 100m (328 ft.) at 1 kHz
Capacitance Unbalance	<330 pF per 100m (328 ft.) at 1kHz
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	67%

## Cable Construction



## Product Offering

Part Number	Packaging Configuration	Color
PUC6X04BU	Standard US Pallet (12 cartons/pallet, 4 cartons x 3 layers)	Blue
PUC6X04IG	Standard US Pallet (12 cartons/pallet, 4 cartons x 3 layers)	International Gray
PUC6X04BU-J	Individual Carton (Japan Market Only)	Blue
PUC6X04IG-J	Individual Carton (Japan Market Only)	International Gray
PUL6X04WH-EY	European Pallet (12 cartons/pallet, 6 cartons x 2 layers)	White
PUL6X04BU	Standard Pallet (12 cartons/pallet, 6 cartons x 2 layers)	Blue
PUL6X04WH	Standard Pallet (12 cartons/pallet, 6 cartons x 2 layers)	White
PUL6X04BU-J	Individual Carton (Japan Market Only)	Blue
PUL6X04WH-J	Individual Carton (Japan Market Only)	White

For other color or pallet configurations, contact customer service.

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