

TX6™ 10Gig™ UTP Copper Cable

specifications

Category 6A cable shall meet the IEC 61156-5 and ANSI/TIA/EIA-568-B.2-10 Category 6_A 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 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_A, IEEE 802.3-2006, and ANSI/TIA/EIA-568-B.2-10 Category 6_A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the PANDUIT® TX6™ 10Gig™ UTP Copper Cabling System

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

Conductor/insulator:	23 AWG solid copper insulated with HDPE
Flame rating:	IEC 60332-1, UL 1685
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (-4°F to 167°F) during operation
Cable jacket:	Flame retardant PVC
Cable diameter:	8.6mm (0.338 in.) nominal
Cable weight:	16 kg/305m (35 lbs./1000 ft.)
Packaging:	305m (1000 ft.) on a reel 18 kg/305m (40 lbs./1000 ft.) Package tested to ISTA procedure 1A

key features and benefits

Third party tested	Cable has been tested as part of the TX6™ 10Gig™ 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 _A , ISO/IEC TR 24750, ANSI/TIA/EIA-568-B.2-10, TSB-155 and IEEE 802.3an
Cable filler	Stranded with the core insulating pairs of the cable to increase separation of neighboring cables in a cable bundle
Internal pair separator	Separates individual pairs to maintain and ensure exceptional cable performance
Descending length cable markings	Easy identification of remaining cable to reduce installation time and cable scrap

applications

TX6™ 10Gig™ UTP Copper Cable is a component of the PANDUIT® TX6™ 10Gig™ 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_A standards and ANSI/TIA/EIA-568-B.2-10, this system is ideal for today's high performance workstation applications.

Usage of the TX6™ 10Gig™ Copper Cabling System include:

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

TX6™ 10Gig™ Copper Cabling System

TX6™ 10Gig™ UTP Copper Cable

CM: PUC6X04*

MINI-COM® TX6™ 10Gig™ UTP Jack Module

Jack module: CJ6X88TG**

TX6™ 10Gig™ UTP Patch Cords

Meter lengths: UTP6X5M^Y

Foot lengths: UTP6X3^Y

DP6™ 10Gig™ Angled Punchdown Patch Panels

24-port, 1RU: DPA246X88TGY

48-port, 2RU: DPA486X88TGY

DP6™ 10Gig™ Flat Punchdown Patch Panels

24-port, 1RU: DP246X88TGY

48-port, 2RU: DP486X88TGY

Cable Prep Tools

Wire snipping tool: CWST

Wire snipping tool: CJUST

*For colors 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), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).

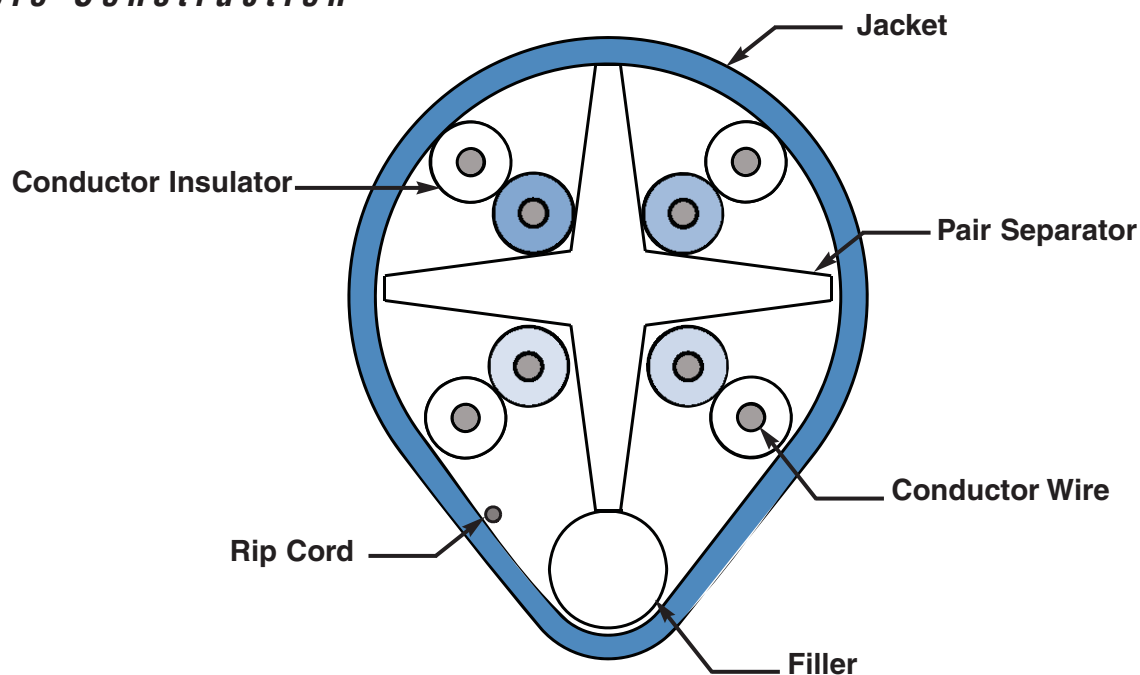
^For lengths 3 to 10 meters (increments of one meter) 1.5, 2.5, 15, 20, 25, 30, 35 or 40 meters change the length designation into the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet) before the Y at the end of the part number. For example, the part number for a blue 5-meter patch cord is UTP6X5MBUY.

^For lengths 3 to 20 feet (increments of one foot) 20, 25, 30, 35 or 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 Y at the end of the part number. For example, the part number for a blue 15-foot patch cord is UTP6X15BUY.

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

For other color or pallet configurations, contact customer service.

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