

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

## specifications


Category 6A/Class E<sub>A</sub>, UTP patch cords shall be constructed of 24 AWG stranded copper cable with an enhanced performance modular plug on each end. Copper conductors in patch cable shall be twisted in pairs and separated by a quadrant separator. All four pairs shall be surrounded by matrix tape and a flame retardant jacket. The patent pending matrix tape shall suppress alien crosstalk and allow 10 Gb/s transmission. Patch cord cable shall be offered in multiple colors and lengths for design flexibility with a strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes.



## technical information

<b>Category 6A/Class E<sub>A</sub> channel performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E <sub>A</sub> standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® TX6A™ 10Gig™ UTP Copper Cabling System
<b>Headroom warranty:</b>	Guaranteed performance beyond the standard when a complete end-to-end TX6A™ 10Gig™ UTP Copper Cabling System is installed by a Panduit certified installer
<b>Cable diameter:</b>	0.275 in. (7.0mm) nominal
<b>FCC and ANSI compliance:</b>	Meets ANSI/TIA-1096-A requirements; contacts plated with 50 microinches of gold for superior performance
<b>RoHS compliance:</b>	Compliant
<b>IEC compliance:</b>	Meets IEC 60603-7
<b>PoE compliance:</b>	Rated for 2500 cycles with IEEE 802.3af / 802.3at and proposed 802.3bt type 3 and type 4
<b>UL rated:</b>	UL 1863 approved
<b>Flammability rating:</b>	CM

## key features and benefits

<b>Interoperable</b>	Compatible with components of the TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology (70 meter solution) for increased design flexibility
<b>MaTriX Technology</b>	Provides superior suppression of both PSANEXT and PSAACR-F; improves the installation flexibility by allowing cable combing in existing pathways without compromising performance
 <b>100% performance tested</b>	Confidence that each patch cord delivers specified performance
<b>Superior headroom warranty</b>	Provides the highest margins above the industry standard for both electrical and alien crosstalk performance
<b>Flexible cable design</b>	Improved cable management in high density applications enabling easier installations
<b>Center de-embedded plug</b>	Performs in center of ANSI/TIA-568-C.2 component range ensuring interoperability and superior performance
<b>Integral pair manager</b>	Optimizes performance, consistency, and reliability by reducing untwist at plug
<b>Patented tangle-free latch</b>	Prevents snags and provides easy release, saving time and providing reliability on frequent moves, adds, and changes
<b>Slender strain relief boot</b>	Provides easy access in high-density applications
<b>Robust construction</b>	Rated to 2500 mating cycles
<b>Identification</b>	Provides identification of performance level, length, and quality control number for future traceability
<b>Variety of cable colors and lengths</b>	Meets individual length and color-coding requirements for greater system flexibility
<b>Key version available</b>	Color-specific keys with positive and negative keying features mechanically and visually distinguish connections to prevent unintentional insertion into unlike keyed or non-keyed ports, offering network design flexibility, versatility, and accommodating discrete networks for enhanced security
<b>Color bands (optional)</b>	Snap onto cable, allowing additional color-coding options
<b>RJ45 plug lock-in device (optional)</b>	Secures plug into jack to prevent unauthorized removal of patch cord

## applications

The TX6A™ 10Gig™ UTP Patch Cords with MaTriX Technology are a component of the 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. Key applications include:

- 10GBASE-T Ethernet
- Data center I/O consolidation
- Data center server virtualization
- Consolidation of network interconnects
- Back-bone aggregation
- Parallel processing and high speed computing

[www.panduit.com](http://www.panduit.com)

# PANDUIT®

SPECIFICATION SHEET

### TX6A™ 10Gig™ UTP Copper Cabling System with MaTriX Technology

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

**Foot lengths:** UTP6A\*BU  
**Meter lengths:** UTP6A\*\*MBU

#### Mini-Com® TX6A™ 10Gig™ UTP Jack Module with MaTriX Split Foil Technology

**Jack module:** CJ6X88TG\*\*\*  
**Shuttered jack module:** CJD6X88TG\*\*\*

#### TX6A™ 10Gig™ UTP Copper Cable with MaTriX Technology (100 meter solution)

**Plenum:** PUP6A04^UG  
**Riser:** PUR6A04^UG  
**LSZH (60332-1):** PUL6A04^CEG  
**LSZH (60332-3):** PUZ6A04^EG  
**CM:** PUC6A04^EG

#### TX6A™ 10Gig™ UTP Copper Cable with MaTriX Technology (70 meter solution)

**Plenum:** PUP6ASD04^UG  
**Riser:** PUR6SDA04^CG  
**LSZH (60332-1):** PUL6ASD04^EG  
**LSZH (60332-3):** PUZ6ASD04^EG  
**CM:** PUC6ASD04^EG

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

**24-port, 1 RU:** CPPA24FMWBLY  
**48-port, 2 RU:** CPPA48FMWBLY  
**72-port, 2 RU:** CPPLA72WBLY

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

**24-port, 1 RU:** CPP24FMWBLY  
**48-port, 1 RU:** CPP48HDMWBLY  
**48-port, 2 RU:** CPP48FMWBLY  
**72-port, 2 RU:** CPP72FMWBLY

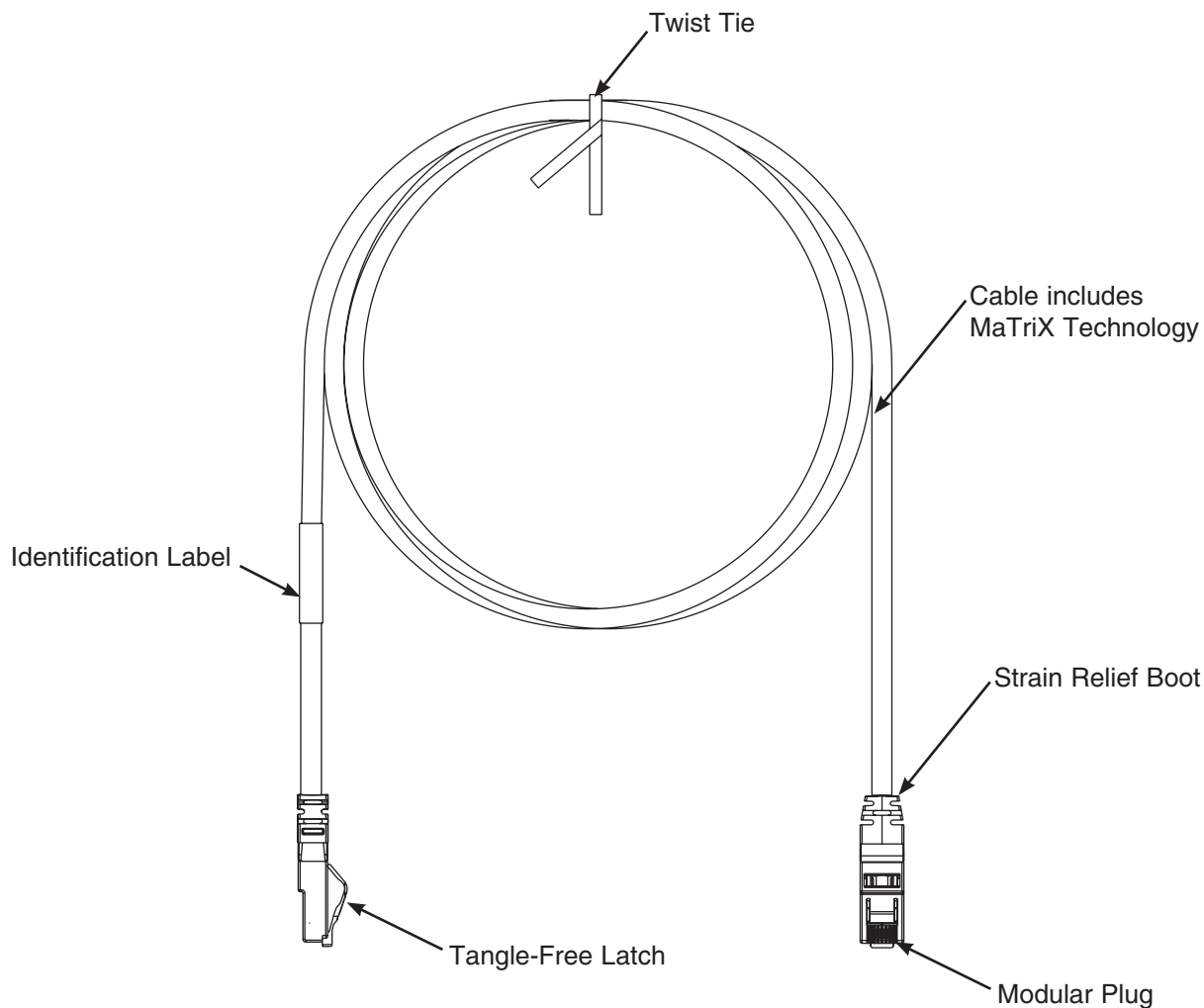
For additional modular patch panels reference [www.panduit.com](http://www.panduit.com)

#### Tools and Accessories

**Patch cord removal tool:** PCRT1  
**Flashlight kit:** KPCRT1-FL  
**Patch cord color band:** PCBAND^^Q  
**Standard RJ45 plug lock-in device:** PSL-DCPLX^^^  
**Recessed RJ45 plug lock-in device:** PSLDCPLRX^^^

\*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. For example, the part number for a blue 15 foot patch cord is UTP6A15BU.  
\*\*For lengths 1 to 10 meters (increments of one meter) 1.5, 2.5, 15, or 20 meters, 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) after the M in the part number. For example, the part number for a blue 15 meter patch cord is UTP6A15MBU.  
\*\*\*To designate color, add suffix IW (Off White), EI (Electric Ivory), WH (White), AW (Arctic White), IG (International Gray), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow), or VL (Violet).  
^To designate color, add suffix BU (Blue), WH (White), YL (Yellow), or IG (International Gray).  
^Substitute PUR6A04^CG for alternative manufacturing location.  
^^To designate color, add suffix WH (White), EI (Electric Ivory), IG (International Gray), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet) before - Q in part number. 25/package.  
^^^For colors other than Red, add -BL (Black), -BU (Blue), -GR (Green), -YL (Yellow), -OR (Orange), -IW (International White), or -IG (International Gray) to the end of the part number. 10/package. Add -C for bulk packages of 100.  
Contact customer service for keyed patch cords, bulk packaged jack modules, and patch cords.

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



**T568B Wiring Scheme**

Plug Position	Cable Wire
1	White/Orange
2	Orange
3	White/Green
4	Blue
5	White/Blue
6	Green
7	White/Brown
8	Brown

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