

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

## specifications

Category 6A/Class E<sub>A</sub>, UTP patch cords shall be constructed of 26 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.



## technical information

**Category 6A/Class E<sub>A</sub> channel performance:** Certified channel performance in a 4-connector configuration up to 70 meters as part of the TX6A-SD™ 10Gig™ UTP Copper Cabling System. Exceeds the electrical and alien crosstalk performance 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. TX6A-SD™ 10Gig™ UTP Patch Cords with MaTriX Technology support 4-connector configurations up to 100 meters, as part of the TX6A™ 10Gig™ UTP Copper Cabling System.

**Attenuation de-rating factor:** 1.5

**Cable diameter:** 0.240 in. (6.1mm) nominal

**FCC and ANSI compliance:** Meets ANSI/TIA-1096-A; contacts are plated with 50 microinches of gold for superior performance

**IEC compliance:** Meets IEC 60603-7

**RoHS compliance:** Compliant

**Operating temperature:** 14°F to 140°F (-10°C to 60°C)


**Storage temperature:** -40°F to 158°F (-40°C to 70°C)

**PoE compliance:** Meets IEEE 802.3af and IEEE 802.3at for PoE applications

**C(UL)US listed:** UL 1863, CSA standard C22.2

**Flammability rating:** CM or LSZH

## key features and benefits

<b>Interoperable</b>	Compatible with components of the TX6A™ 10Gig™ UTP Copper Cabling System for increased design flexibility in channels up to 100 meters
<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>Smaller cable diameter than most Category 6 patch cords and flexible cable design</b>	Improved cable routing and management in high density applications enabling easier installations
<b>100% performance tested for wire map, NEXT and return loss</b>	Confidence that each patch cord delivers critical component level performance
<b>Superior headroom warranty</b>	Provides the highest margins above the industry standard for both electrical and alien crosstalk performance
<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>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-SD™ 10Gig™ UTP Patch Cords is a component of the TX6A-SD™ and TX6A™ 10Gig™ Copper Cabling Systems with MaTriX Technology. Interoperable and backward compatible, these end-to-end systems provide 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
- Back-bone aggregation
- Parallel processing and high speed computing

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## SPECIFICATION SHEET

**TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology**

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

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

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

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

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

**Jack module:** CJ6X88TG\*

**Shuttered**

**jack module:** CJD6X88TG\*

**TX6A-SD™ 10Gig™ UTP Copper Cable with MaTriX Technology (70 meter solution)**

**Plenum:** PUP6ASD04\*-UG

**Riser:** PUR6ASD04\*-CG

**LSZH (60332-1):** PUL6ASD04\*-EG

**LSZH (60332-3):** PUZ6ASD04\*-EG

**CM:** PUC6ASD04\*-EG

**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

**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:** CPP48HDWBLY

**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:** PSL-DCPLRX‡

^ 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), GY (Gray) or VL (Violet) at the end of the part number. For example, the part number for a blue, 15-foot patch cord is UTP6ASD15BU.

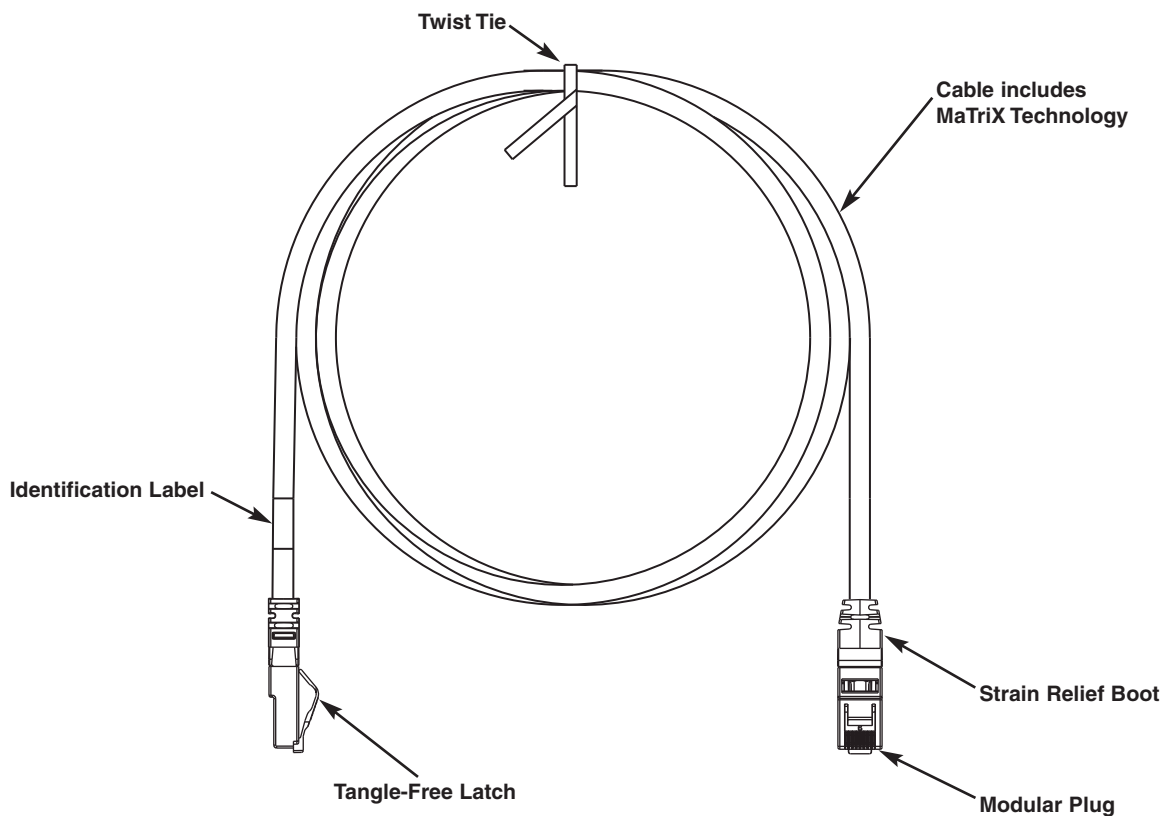
^^ For lengths 1, 1.5, 2, 2.5, 3, 5, 6, 7 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), GY (Gray) or VL (Violet). For example, the part number for a blue, 5-meter patch cord is UTP6ASD5MBU.

\* To designate color, add suffix IW (Off White), EI (Electric Ivory), AW (Arctic White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), 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 (Int'l 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 connectivity, bulk packaged jack modules and patch cords.

# TX6A-SD™ 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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