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

PANDUIT®

SPECIFICATION SHEET

specifications

Category 6A/Class E_A, 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_A channel performance:	Certified channel performance in a 4-connector configuration up to 70 meters as part of the TX6A-SD™ 10Gig™ UTP Cabling System. Exceeds the electrical and alien crosstalk performance requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E_A 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

Interoperable	Compatible with components of the TX6A™ 10Gig™ UTP Copper Cabling System for increased design flexibility in channels up to 100 meters
MaTriX Technology (PATENT PENDING)	Provides superior suppression of both PSANEXT and PSAACR-F; improves the installation flexibility by allowing cable combing in existing pathways without compromising performance
Smaller cable diameter than most Category 6 patch cords and flexible cable design	Improved cable routing and management in high density applications enabling easier installations
100% performance tested for wire map, NEXT and return loss	Confidence that each patch cord delivers critical component level performance
Superior headroom warranty	Provides the highest margins above the industry standard for both electrical and alien crosstalk performance
Center de-embedded plug	Performs in center of ANSI/TIA-568-C.2 component range ensuring interoperability and superior performance
Integral pair manager	Optimizes performance, consistency, and reliability by reducing untwist at plug
Patented tangle-free latch	Prevents snags and provides easy release, saving time and providing reliability on frequent moves, adds, and changes
Slender strain relief boot	Provides easy access in high-density applications
Robust construction	Rated to 2500 mating cycles
Identification	Provides identification of performance level, length, and quality control number for future traceability
Variety of cable colors and lengths	Meets individual length and color-coding requirements for greater system flexibility
Color bands (optional)	Snap onto cable, allowing additional color-coding options
RJ45 plug lock-in device (optional)	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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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[1]
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

Tools and Accessories

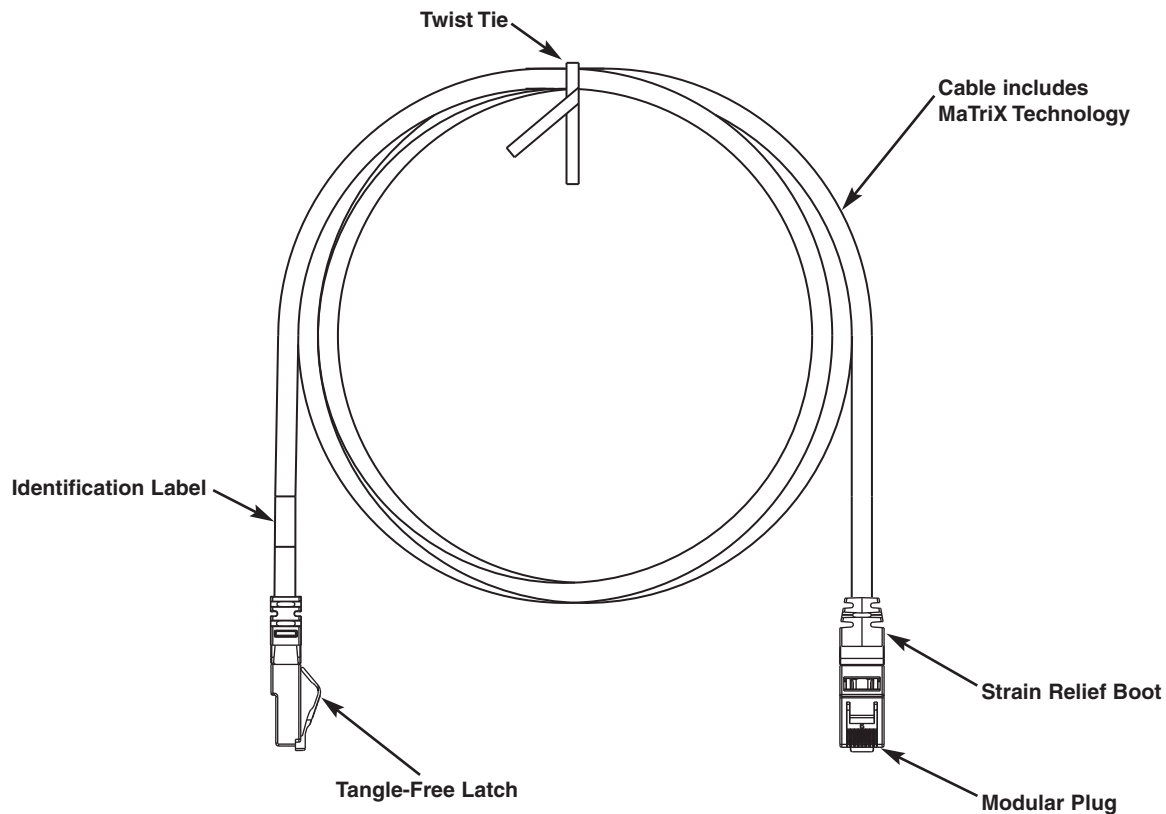|	
Patch cord removal tool:	PCRT1
Flashlight kit:	KPCRT1-FL
Patch cord color band:	PCBAND***-Q
Standard RJ45 plug lock-in device:	PSL-DCPLX‡
Recessed RJ45 plug lock-in device:	PSL-DCPLRX‡

^ 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), WH (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).

[1] 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.

Twist Tie

Cable includes MaTriX Technology

Identification Label

Tangle-Free Latch

Strain Relief Boot

Modular Plug

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

For more information

Visit us at www.panduit.com

**Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300**

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