TX6A™ 10Gig™ UTP Patch Cords with MaTriX Technology

PANDUIT®

SPECIFICATION SHEET

specifications

Category 6A/Class E_A, 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

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

key features and benefits

Interoperable	Compatible with components of the TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology (70 meter solution) for increased design flexibility
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
100% performance tested	Confidence that each patch cord delivers specified performance
Superior headroom warranty	Provides the highest margins above the industry standard for both electrical and alien crosstalk performance
Flexible cable design	Improved cable management in high density applications enabling easier installations
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
Key version available	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
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™ 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

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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:	CPP48HDWBLY
48-port, 2 RU:	CPP48FMWBLY
72-port, 2 RU:	CPP72FMWBLY

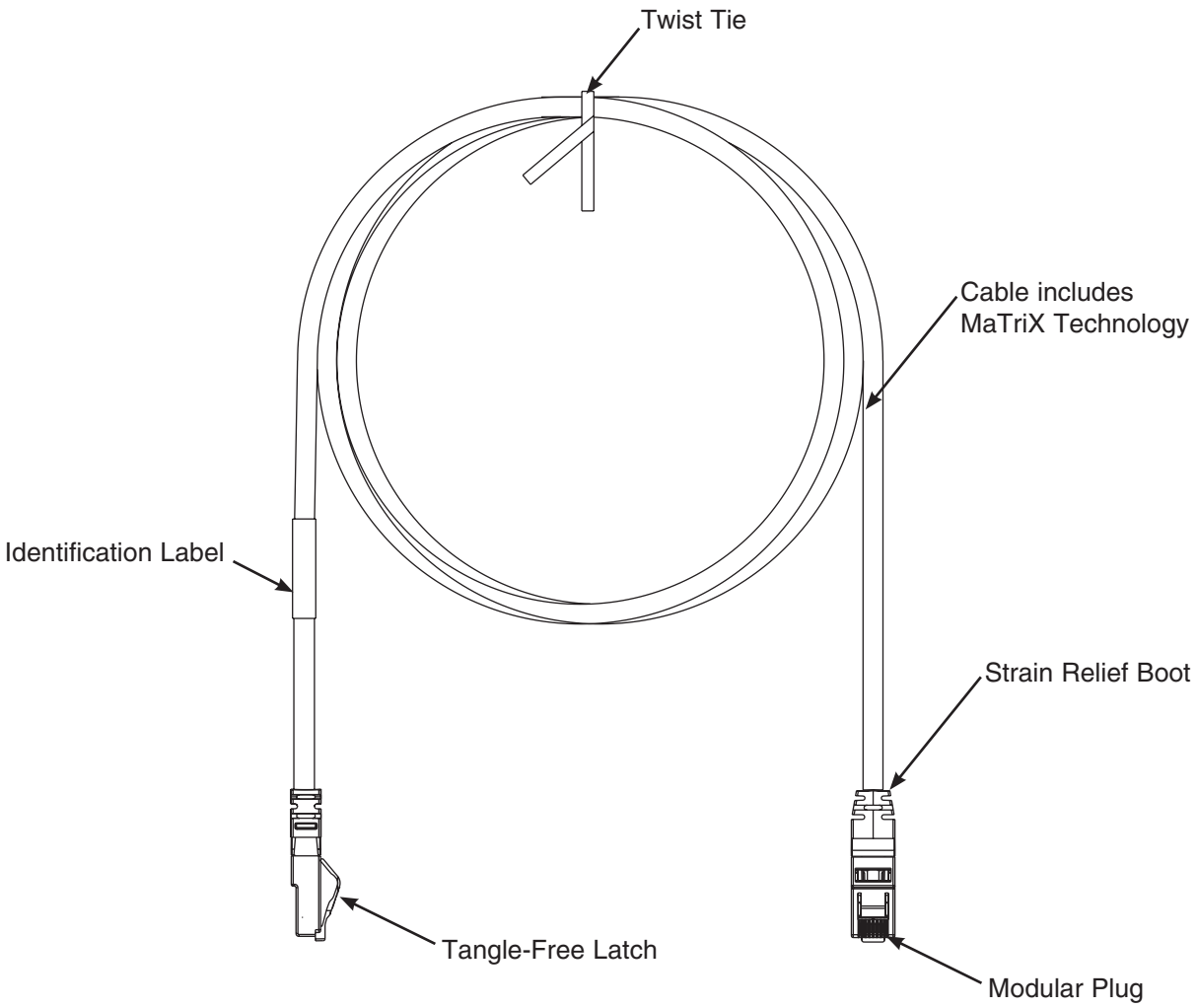
For additional modular patch panels reference www.panduit.com

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:	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).
[1]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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