TX6A™ 10Gig™ Keyed Shielded Patch Cords

specifications

Category 6A/Class E$_A$, S/FTP keyed patch cords shall be constructed of 26 AWG shielded twisted pair stranded copper cable with keyed modular plug on one end and a non-keyed modular plug on the other end. Keyed modular plugs shall be mechanically keyed with color-specific positive and negative keying features to prevent unintentional mating with unlike keyed or non-keyed jack modules. Copper conductors in patch cable shall be twisted in pairs and separated by a quadrant separator. All four pairs shall be surrounded by a foil shield and flame retardant jacket. Patch cord cable shall be offered in multiple colored S/FTP cable for design flexibility with a black strain relief boot on each modular plug. All patch cords shall be compatible with both T568A and T568B wiring schemes. The TX6A™ 10Gig™ Shielded Patch Cords must be installed as part of a complete Panduit® TX6A™ 10Gig™ Shielded Copper Cabling System in order to achieve 10GBASE-T certified performance.

technical information

Category 6A/ ISO 11801 Class E$_A$ channel performance tested to 500MHz:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirement of ISO 11801 Class E$_A$ Edition 2.1, IEEE 802.3an-2006 and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over copper twisted pair cabling when used as part of the Panduit® TX6A™ 10Gig™ Shielded Copper Cabling System
Cable diameter:	0.230 in. (5.8mm) nominal
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A; contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
c(UL)US listed:	UL 1863, CSA standard C22.2
RoHs compliance:	Compliant
PoE compliance:	Meets IEEE 802.3at and IEEE 802.3af for PoE applications
Flammability rating:	CM/LSZH dual rated

key features and benefits

Color specific keys with positive and negative keying features	Mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed modular plugs, offering network design flexibility, versatility, accommodating discrete networks for enhanced security
100% performance tested for wire map, NEXT and return loss	Confidence that each patch cord delivers specified performance
Centered de-embedded plug	Performs in center of ANSI/TIA-568-C.2 component range, ensuring interoperability and optimum performance
Integral pair manager	Optimizes performance and consistency by reducing untwist at plug
Patented tangle-free latch	Prevents snags and provides easy release, saving time on frequent moves, adds and changes
Slender strain relief boot	Provides easy access in high-density applications
Flexible stranded cable	Copper cable made of 0.23 inch S/FTP stranded 26 AWG allows for high density applications and superior panel cable management
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
Robust construction	Rated to 2500 mating cycles
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™ Keyed Shielded Patch Cords are a component of the Panduit® TX6A™ 10Gig™ Shielded Copper Cabling System. Keyed connectivity enables a level of visual and mechanical differentiation and physical layer security that conventional cabling systems cannot provide. This end-to-end system provides a cost-effective medium for ensuring that network bandwidth needs are easily met today and tomorrow. This shielded cabling system provides high performance, excellent EMI suppression, and aids in secure data transmission. The Panduit solution helps ensure organizations efficiently and reliably meet their data transmission needs.

With certified performance to the ISO 11801 Class EA Edition 2.1, IEEE 802.3an-2006 and ANSI/TIA-568-C.2 Category 6A standards, this system will support the following applications:
- Stacking switched and switch-to-switch links
- Aggregation of Gigabit Ethernet channels
- Streaming video
- Scientific modeling
- Storage area networks
- Real-time intensive financial transactions
- Animation
- Medical imaging

TX6A™ 10Gig™ Keyed Shielded Copper Cabling System

Mini-Com® TX6A™ 10Gig™ Keyed UShielded Jack Modules

Keyed A (black):	STPK6X*BL
Keyed B (red):	STPK6X*RD
Keyed C (green):	STPK6X*GR
Keyed D (yellow):	STPK6X*YL
Keyed E (orange):	STPK6X*OR
Keyed F (blue):	STPK6X*BU
Keyed G (violet):	STPK6X*VL
Keyed H (international gray):	STPK6X*IG

Mini-Com® TX6A™ 10Gig™ Keyed UShielded Jack Modules

Keyed A (black):	CJSK6X88TGBL
Keyed B (red):	CJSK6X88TGRD
Keyed C (green):	CJSK6X88TGGR
Keyed D (yellow):	CJSK6X88TGYL
Keyed E (orange):	CJSK6X88TGOR
Keyed F (blue):	CJSK6X88TGBU
Keyed G (violet):	CJSK6X88TGVL
Keyed H (international gray):	CJSK6X88TGIG

TX6A™ 10Gig™ Shielded U/FTP Copper Cable

Plenum:	PUFP6X04**-UG
Riser:	PUFR6X04**-UG

TX6A™ 10Gig™ Shielded S/FTP Copper Cable

LSZH:	PSL7004DG-ED
LSZH:	PUFL6X04WH-KD

Mini-Com® Angled All Metal Shielded Modular Patch Panels

24-port, 1RU:	CPA24BLY
48-port, 2RU:	CPA48BLY
72-port, 2RU:	CPA72BLY

Mini-Com® Flat All Metal Shielded Modular Patch Panels

24-port, 1RU:	CP24BLY
48-port, 2RU:	CP48BLY
72-port, 2RU:	CP72BLY

Tools and Accessories

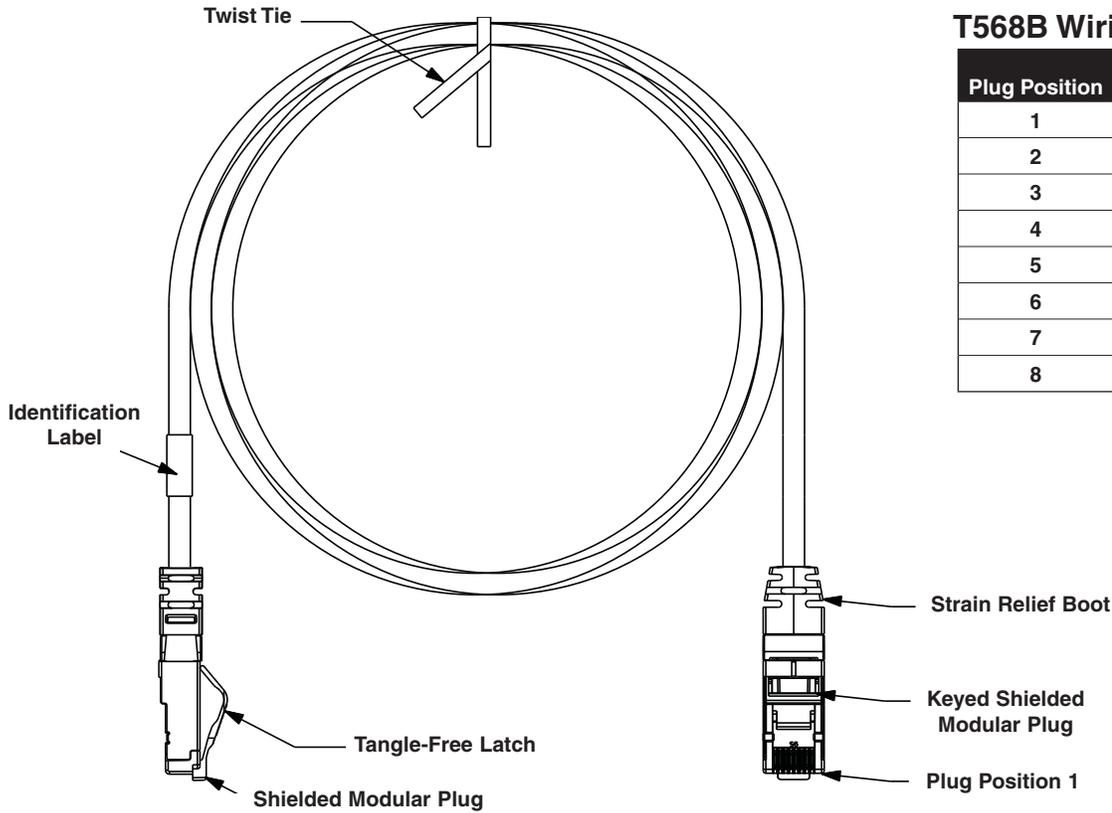|	
Patch cord removal kit:	PCRT1
Flashlight kit:	KPCRT-FL
Patch cord band:	PCBAND***-Q
Standard RJ45 plug lock-in device:	PSL-DCPLX^^
Recessed RJ45 plug lock-in device:	PSL-DCPLRX^^

*Substitute for length in feet: 3, 5, 7, 10 or 14 feet. Contact customer service for universal reference patch cords.
**To designate color, add suffix BU (Blue) or WH White). For additional cable colors, contact customer service.
***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 the -Q in the 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 bulk packaged jack modules and patch cords.

TX6A™ 10Gig™ Keyed Shielded Patch Cords

Twist Tie

Identification Label

Tangle-Free Latch

Shielded Modular Plug

Strain Relief Boot

Keyed Shielded Modular Plug

Plug Position 1

T568B Wiring Scheme

Plug Position	Cable Wire
1	Red
2	Orange
3	Black
4	Blue
5	White
6	Green
7	Yellow
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 and reference COSP242

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