TX5e™ Shielded Patch Cords

specifications

Category 5e/Class D, F/UTP shielded patch cords shall be constructed of 26 AWG shielded twisted pair stranded copper cable with a shielded high performance modular plug at each end. Patch cord cable shall be available in gray in multiple lengths, and strain relief boots on the modular plugs shall be available in multiple colors for additional design flexibility. Patch cords shall be used in all work area outlets and modular patch panels. All patch cords shall be compatible with both T568A and T568B wiring schemes.

technical information

Category 5e/Class D channel and component performance:	Exceeds all ISO 11801 Class D and ANSI/TIA-568.2-D Category 5e standards for all frequencies from 1 to 100 MHz◊
Cable diameter:	0.205 in. (5.2mm) nominal
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A (formerly FCC Part 68); contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
UL rated:	UL 1863 approved
RoHs compliance:	Compliant
PoE compliance:	Rated for 2500 cycles with IEEE 802.3af / 802.3at and 802.3bt type 3 and type 4
Flammability rating:	CM/LSZH dual rated

key features and benefits

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-568.2-D 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	26 AWG stranded copper cable with a nominal diameter of 0.205 inch allows for high density installations and superior panel cable management
Variety of boot colors and cable lengths	Meets individual length and color-coding requirements for greater system flexibility
Identification	Provides identification of performance level, length, and quality control number for future traceability
Robust construction	Plug contact plated with 50 microinches of gold and rated to 2500 mating cycles
Keyed version available	Color-specific keys with positive and negative keying features mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed jack modules, offering network design flexibility, versatility 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

TX5e™ Shielded Patch Cords are a component of the TX5500™ Shielded Copper Cabling System. This end-to-end system provides Gigabit Ethernet performance with usable bandwidth beyond 100 MHz. With certified performance to the ISO 11801 Class D and ANSI/TIA-568.2-D Category 5e standards, this system will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet)
- 155 Mb/s ATM, 622 Mb/s ATM
- Token Ring 4/16
- Voice/data systems
- Voice over Internet Protocol (VoIP)

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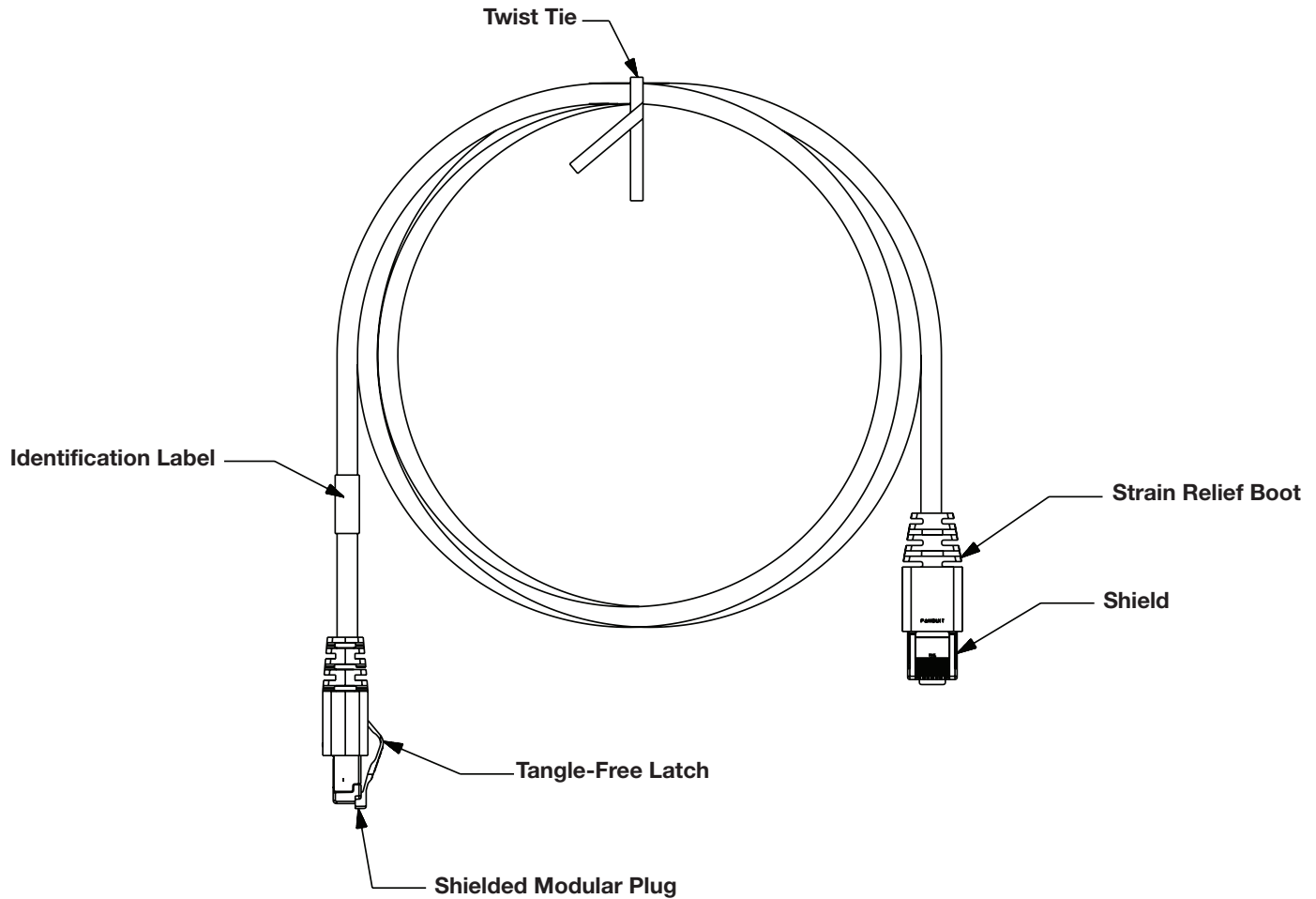| **TX5500™ Shielded Copper Cabling System**	
TX5e™ Shielded Patch Cords	
Meter lengths:	STPCH*MBBL
Tools and Accessories	
Patch cord removal tool:	PCRT1
Flashlight kit:	KPCRT-FL
Patch cord band:	PCBAND**-Q
Standard RJ45 plug lock-in device:	PSL-DCPLX***
Recessed RJ45 plug lock-in device:	PSLDCPLRX***

*For lengths 1 to 10 meters (increments of one meter) and 0.5, 1.5, 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in the part number to the desired length. For boot colors other than Black, replace BL (Black) with BU (Blue), GR (Green), RD (Red) or YL (Yellow). For example, the part number for a 15-meter patch cord with blue boots is STPCH15MBBU.

**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 the part number. 25/package.

***For colors other than Red, add suffix BL (Black), BU (Blue), YL (Yellow), IW (Off White), GR (Green) to end of the part number. 10/package.

◊Lengths 1m to 15m or 6 inch to 49 feet are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 15m or 49 feet are guaranteed to meet ISO component and both TIA and ISO channel requirements.

TX5e™ Shielded Patch Cords

Twist Tie

Identification Label

Strain Relief Boot

Shield

Tangle-Free Latch

Shielded Modular Plug

T568A Wiring Scheme

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

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

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 COSP238

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TX6A™ 10Gig F/UTP Shielded Patch Cords

specifications

Category 6A/Class E$_A$, F/UTP patch cords shall be constructed of 26 AWG shielded twisted pair stranded copper cable with an enhanced performance shielded modular plug at each end. Patch cord cable shall be offered in multiple colored F/UTP 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.

technical information

Category 6A/ Class E$_A$ channel performance:	Exceeds all ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E$_A$ standards for all frequencies up to 500 MHz◊
Cable diameter:	0.252 in. (6.3mm) nominal
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A requirements (formerly FCC Part 68); contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
Flame rating:	Meets IEC 60332-1, IEC 60754-1, IEC 61034-2
UL rated:	UL 1863 approved
RoHs compliance:	Compliant
PoE compliance:	Rated for 2500 cycles with IEEE 802.3af / 802.3at and 802.3bt type 3 and type 4
Flammability rating:	CM/LSZH dual rated

key features and benefits

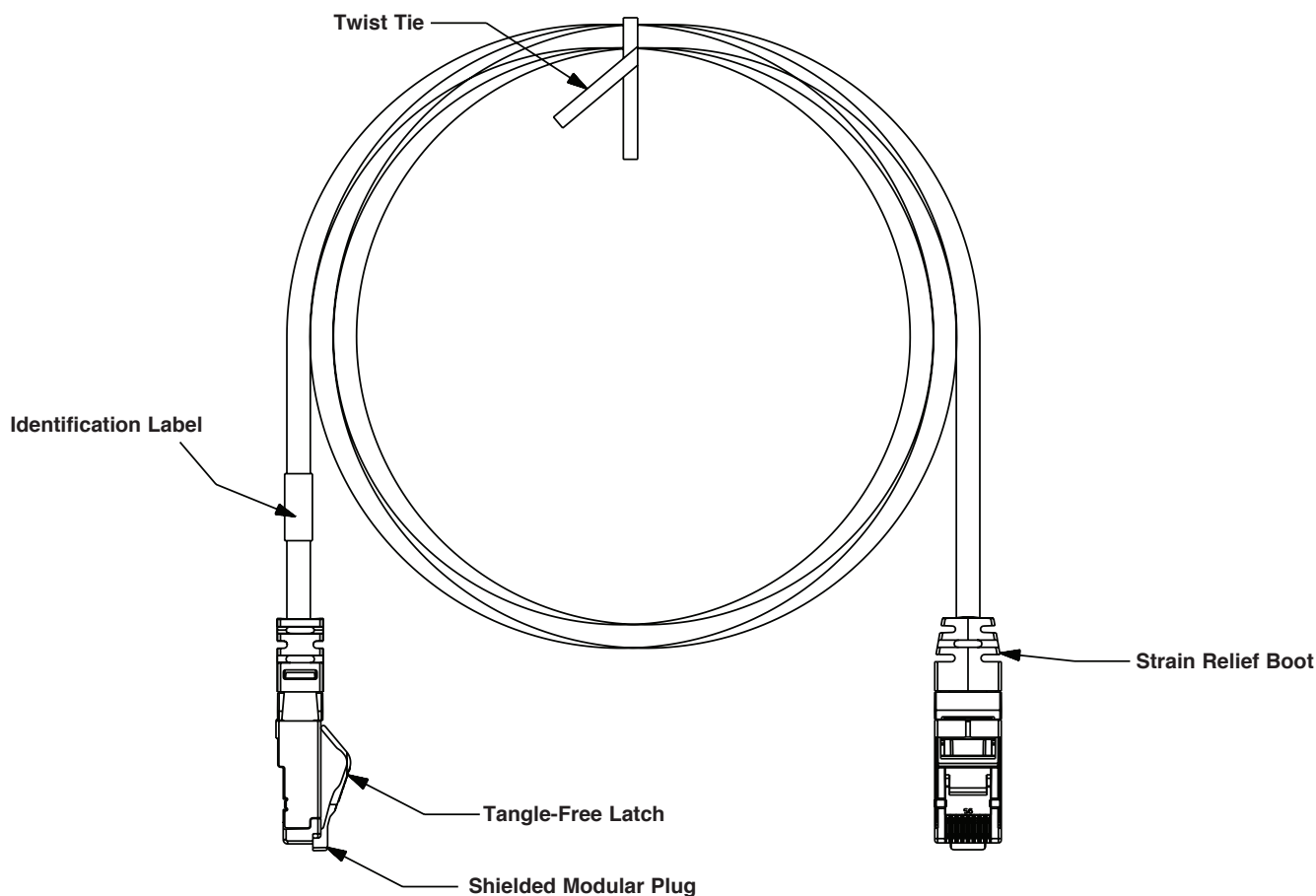|	
100% performance tested for wire map, NEXT, and return loss	Confidence that each patch cord delivers specified component level performance
Centered de-embedded plug	Performs in center of ANSI/TIA-568.2-D component range, ensuring interoperability and optimum performance
Integral pair manager	Optimizes 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 0.25 inch F/UTP 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
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

TX6A™ 10Gig Shielded Patch Cords are a component of the Panduit TX6A™ 10Gig Shielded Copper Cabling System. 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

E$_A$ IEEE 802.3an-2006 and ANSI/TIA-568.2-D 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 Shielded Copper Cabling System

TX6A™ 10Gig Shielded Patch Cords*

Meter lengths:	STP6C**

Tools and Accessories

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

**For lengths 0.5 to 10 meters (increments of 0.5 meter) and 1.5, 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue 15-meter patch cord is STP6C15MBU.

***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 keyed connectivity, bulk packaged jack modules, and patch cords.

◊Lengths 1m to 15m or 6 inch to 49 feet are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 15m or 49 feet are guaranteed to meet ISO component and both TIA and ISO channel requirements.

TX6A™ 10Gig F/UTP Shielded Patch Cords

Twist Tie

Identification Label

Strain Relief Boot

Tangle-Free Latch

Shielded Modular Plug

Recycle at end of life

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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TX6A-28™ Category 6A Performance 28 AWG Shielded Patch Cords

specifications

Category 6A/Class E$_A$, F/UTP, small diameter patch cords are constructed of 28 AWG, shielded, twisted pair, solid copper (dual-rated CM/LSZH) cable with high performance RJ45 modular plugs. Patch cords are offered in multiple lengths and colors for design flexibility.

Category 6A 28 AWG Patch Cords

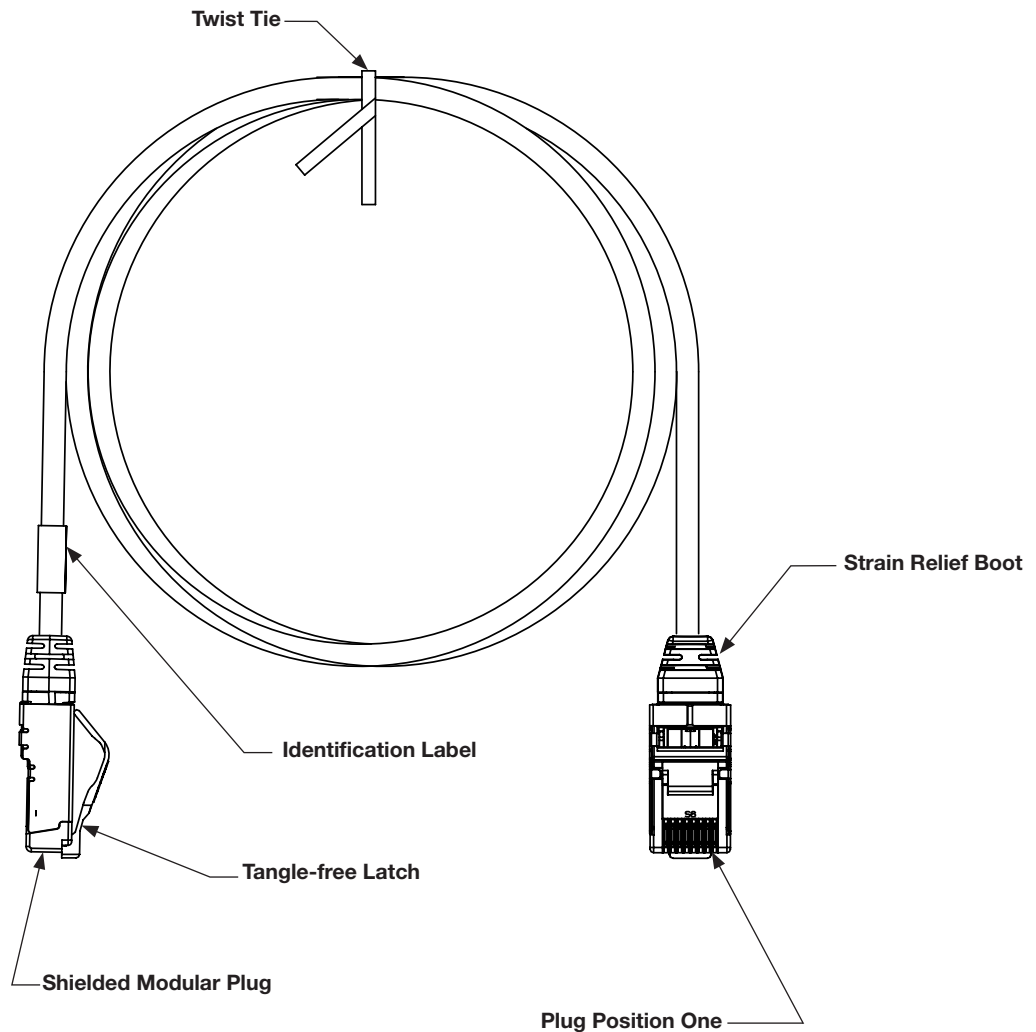|	
Meters:	STP28X*MIG^
0.2m:	STP28X0.2M^

*Meter lengths: 0.5 – 10 meters (every 0.5m)
11 – 20 meters (every 1m)
25 – 40 meters (every 5m)

^For standard cable colors other than Int'l Gray, change IG suffix to: BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet).

For example, the part number for a 5 meter, blue patch cord is STP28X5MBU.

technical information

Category 6A/ Class E$_A$ channel and component performance:	Exceeds all ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E$_A$ Edition 2.1 electrical performance requirements for all frequencies from 1 to 500 MHz Note: These patch cords utilize 28 AWG conductors which do not meet the 22 to 26 AWG conductor size of patch cable referenced in ANSI/TIA-568-C.2, resulting in an increased attenuation de-rating value of 1.9. Supports 96 meter channels that include 90 meter permanent links. Supports 93 meter channels with 10 meters of patch cords included in the channel.
Cable diameter:	0.185 in. (4.7mm) nominal
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A (formerly FCC Part 68)
IEC compliance:	Meets IEC 60603-7
PoE compliance:	Supports IEEE 802.3af/802.3at (48 cables in a bundle) and proposed 802.3bt type 3 and type 4 (24 cables in a bundle) PoE applications
Safety compliance:	cULus Listed; UL 1863 and CAN/CSA-C22.2 (UL File E129886)
RoHS compliance:	Compliant
Operating temperature:	14°F to 167°F (-10°C to 75°C)
Storage temperature:	-40°F to 158°F (-40°C to 70°C)
Plug housing:	UL94V-0 rated clear Polycarbonate
Contacts:	Gold plated phosphor bronze; contacts plated with 50 microinches of gold for superior performance
Flammability rating:	CM/LSZH dual-rated

key features and benefits

Smaller diameter, flexible cable design	Tight bend radius enables improved cable routing and management in high density applications. Smaller cable diameter allows about 70% more cords to be routed through cable managers and pathways compared to traditional Category 6A shielded patch cords. Reduced cable diameter facilitates improved air flow, cooling, resulting in lower operating costs than traditional Category 6A shielded patch cords
Category 6A Performance	Meets all Category 6A requirements (including alien crosstalk), with a cable diameter smaller than traditional Category 5e, 6 and 6A shielded patch cords
100% performance tested for wire map, NEXT and return loss	Confidence that each patch cord delivers critical electrical component-level performance Centered de-embedded plug performs in center of ANSI/TIA-568-C.2 Category 6A 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
Identification label	Provides identification of performance level, length, and quality control number for traceability
Robust construction	Plug contact plated with 50 microinches of gold and rated to 2500 mating cycles
Variety of cable colors and lengths	Meets individual length and color-coding requirements for greater system flexibility
Available plug lock-in devices (optional)	Plug lock-in and latch guard devices to prevent unauthorized or unintended removal of patch cords

applications

TX6A-28™ Category 6A Performance 28 AWG Shielded Patch Cords support the following applications:

- 10GBASE-T Ethernet
- Data center I/O Consolidation
- Data center server virtualization
- Backbone aggregation
- Parallel processing and high speed computing

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Category 6A Performance 28 AWG Shielded Patch Cords

Component Drawing of Patch Cord

Twist Tie

Strain Relief Boot

Identification Label

Tangle-free Latch

Shielded Modular Plug

Plug Position One

Recycle at end of life

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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TX6A™ 10Gig Shielded Patch Cords

specifications

Category 6A/Class E$_A$, S/FTP patch cords shall be constructed of 26 AWG shielded twisted pair stranded copper cable with an enhanced performance shielded modular plug at each end. 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.

technical information

Category 6A/ ISO 11801 Class E$_A$ channel and component performance:	Exceeds all ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E$_A$ standards for all frequencies up to 500 MHz◊
Cable diameter:	0.240 in. (6.1mm) nominal
FCC and ANSI compliance:	Meets ANSI/TIA-1096-A requirements (formerly FCC Part 68); contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7
Flame rating:	Meets IEC 60332-1, IEC 60754-1, IEC 61034-2
UL rated:	UL 1863 approved
RoHs compliance:	Compliant
PoE compliance:	Rated for 2500 cycles with IEEE 802.3af / 802.3at and 802.3bt type 3 and type 4
Flammability rating:	CM/LSZH dual rated

key features and benefits

100% performance tested for wire map, NEXT, and return loss	Confidence that each patch cord delivers specified component level performance
Centered de-embedded plug	Performs in center of ANSI/TIA-568.2-D 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 0.24 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
Robust construction	Rated to 2500 mating cycles
Keyed version available	Color-specific keys with positive and negative keying features mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed jack modules
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

TX6A™ 10Gig Shielded Patch Cords are a component of the Panduit TX6A™ 10Gig Shielded Copper Cabling System. 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 E$_A$, IEEE

802.3an-2006 and ANSI/TIA-568.2-D 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 Shielded Copper Cabling System

TX6A™ 10Gig Shielded Patch Cords*

Foot lengths:	STP6X*IG
Meter lengths:	STP6X**MIG

Tools and Accessories

Patch cord removal tool:	PCRT1
Flashlight kit:	KPCRT1-FL
Patch cord 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) and 25, 30, 35, 40 feet change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray) substitute IG with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue 15-foot patch cord is STP6X15BU.
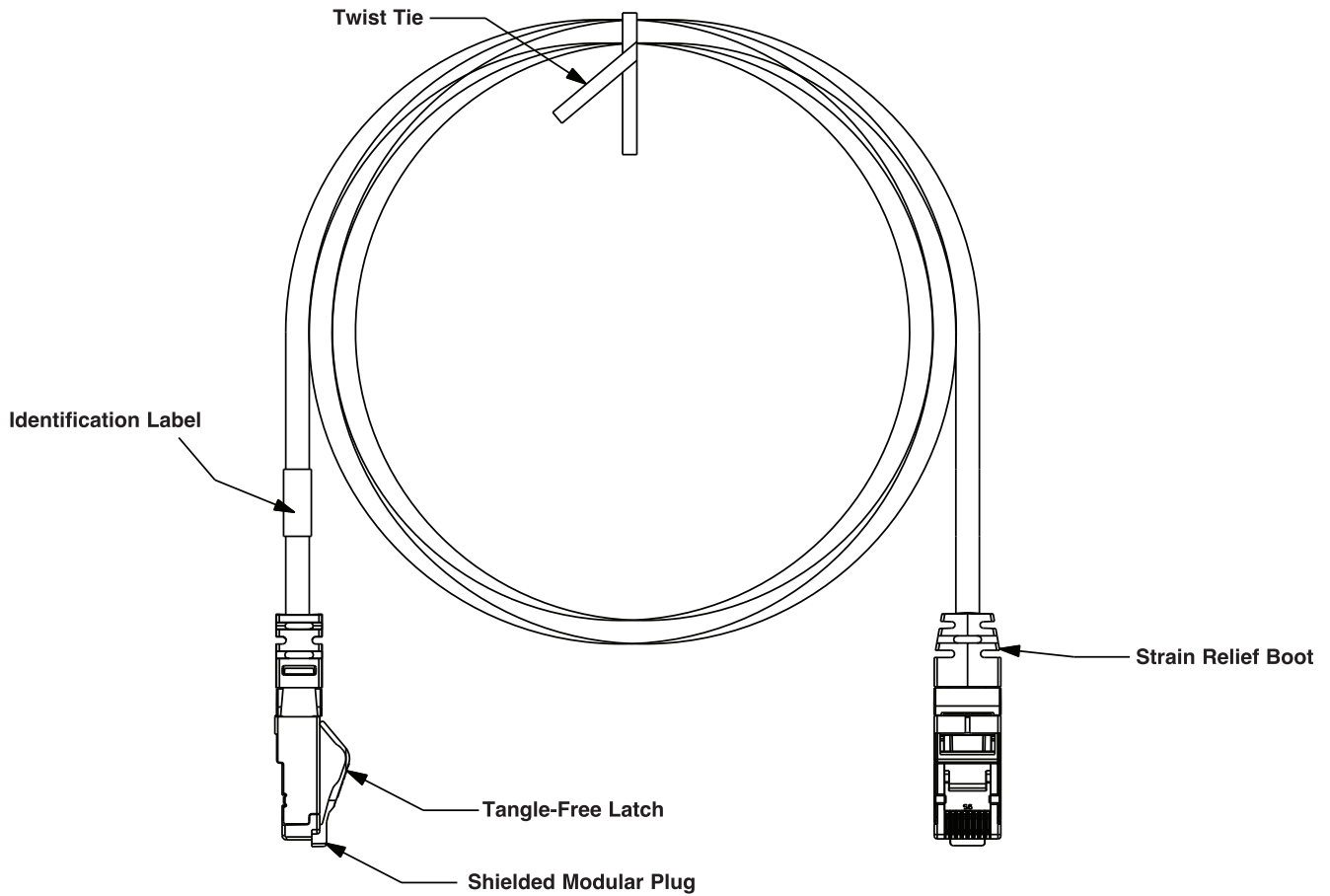
**For lengths 0.5 to 10 meters (increments of 0.5 meter) and 1.5, 2.5, 15, 20, 25, 30, 35, 40 meters, change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue 15-meter patch cord is STP6X15MBU.

***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.

◊Lengths 1m to 15m or 6 inch to 49 feet are guaranteed to meet TIA and ISO component and channel requirements. Lengths greater than 15m or 49 feet are guaranteed to meet ISO component and both TIA and ISO channel requirements.
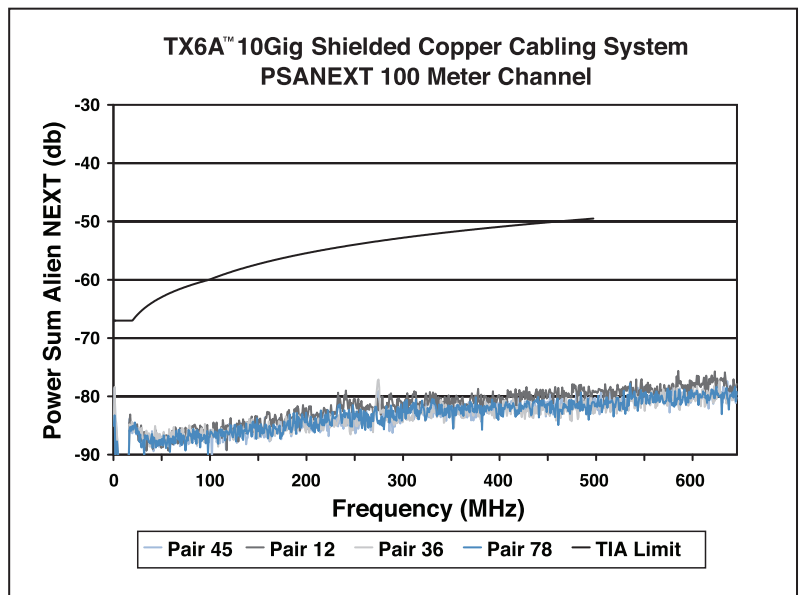
TX6A™ 10Gig Shielded Patch Cords

Twist Tie

Identification Label

Strain Relief Boot

Tangle-Free Latch

Shielded 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

Recycle at end of life

TX6A™ 10Gig Shielded Copper Cabling System
PSANEXT 100 Meter Channel

Power Sum Alien NEXT (db)

Frequency (MHz)

Pair 45 — Pair 12 — Pair 36 — Pair 78 — TIA Limit

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800-777-3300