

# TX6A™ 10Gig™ Shielded Copper Cable – U/FTP

# PANDUIT®

SPECIFICATION SHEET

## specifications

Category 6A/Class EA, shielded copper cable shall be constructed of 4-pair twisted insulated 23 AWG conductors. Each individual pair shall have a metallic foil shield and all four pairs shall be covered with a flame retardant PVC jacket. The shielded cable shall provide superior alien crosstalk performance. The TX6A™ 10Gig™ Shielded Cable must be installed as part of the TX6A™ 10Gig™ Shielded Copper Cabling System to achieve certified 10GBASE-T performance.



## technical information

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ANSI/TIA-568-C.2 Category 6A ISO 11801 Class EA Edition 2.1 and IEEE 802.3an-2006 standards for supporting 10GBASE-T transmission over copper twisted pair cabling when used as part of the Panduit® TX6A™ 10Gig™ Shielded Copper Cabling System
<b>Cable jacket:</b>	100% low-smoke, flame retardant PVC
<b>Flame rating:</b>	Plenum – meets NEC type CMP (UL) – FT6 rated Riser – meets NEC type CMR (UL) – FT4 rated
<b>PoE Compliance:</b>	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
<b>Installation tension:</b>	25 lbs. (110 N) maximum
<b>Temperature rating:</b>	32° to 140°F (0° to 60°C) during installation 14° to 140°F (-10° to 60°C) during operation
<b>Cable outer diameter:</b>	Plenum – 0.29 in. (7.36mm) Riser – 0.31 in. (7.87mm)
<b>Packaging:</b>	1,000 ft. (305M) per reel Plenum – 45 lbs. (20.4kg) Riser – 50 lbs. (22.6kg)

## key features and benefits

<b>Third party tested</b>	Cable has been tested as part of the TX6000™ Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of the following standards: ISO/IEC 11801 2nd Edition: 2002, EN 50173-1:2002, and ANSI/TIA-568-C.2
<b>Additional feature and benefit</b>	Guaranteed channel performance above the standards Industry leading channel performance above the TIA/ISO standards with headroom guarantee
<b>Cross-divider</b>	Separates pairs for exceptional cable performance
<b>Reduced attenuation</b>	Maximizes the amount of signal that reaches the receiver and increases bandwidth
<b>Easy payout carton</b>	Ensures proper performance and provides quick installation
<b>Tested beyond the standards</b>	Cable has been characterized to 550 MHz, 300 MHz above the standard
<b>Descending length cable markings</b>	Easy identification of remaining cable reduces installation time and cable scrap

## applications

TX6A™ 10Gig™ Shielded Cable is a component of the 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. Usage of

the TX6A™ 10Gig™ Shielded Copper Cabling System includes high bandwidth applications within data centers and connections to high-end workstations such as:

- Stacking switches and switch-to-switch links
- Storage area networks
- Aggregation of Gigabit Ethernet channels
- Real-time intensive financial transactions
- Streaming video
- Animation
- Scientific modeling
- Medical imaging

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## TX6A™ 10Gig™ Shielded Copper Cabling System

### TX6A™ 10Gig™ Shielded Copper Cabling – U/FTP\*

<b>Plenum:</b>	PUPF6X04BU-UG
<b>Riser:</b>	PUF6X04BU-UG

### TX6A™ 10Gig™ Shielded Module

<b>Module:</b>	CJS6X88TGY
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### TX6A™ 10Gig™ Shielded Patch Cords

<b>Feet:</b>	STP6X**IG
<b>Meters:</b>	STP6X***MIG

### Mini-Com® Angled All Metal Shielded Modular Patch Panels

<b>24-port, 1 RU:</b>	CPA24BLY
<b>48-port, 2 RU:</b>	CPA48BLY
<b>72-port, 2 RU:</b>	CPA72BLY

### Mini-Com® Flat All Metal Shielded Modular Patch Panels

<b>24-port, 1 RU:</b>	CP24BLY
<b>48-port, 2 RU:</b>	CP48BLY
<b>72-port, 2 RU:</b>	CP72BLY

### Termination Tools

<b>Wire snipping tool:</b>	CWST
<b>Wire stripping tool:</b>	CJAST

\*For colors other than BU (Blue), substitute with WH (White). For additional cable colors, please contact customer service.

\*\*For lengths 3 to 20 feet (increments of one foot) 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 the IG suffix with BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet). For example, the part number for a blue 15-foot patch cord is STP6X15BU.

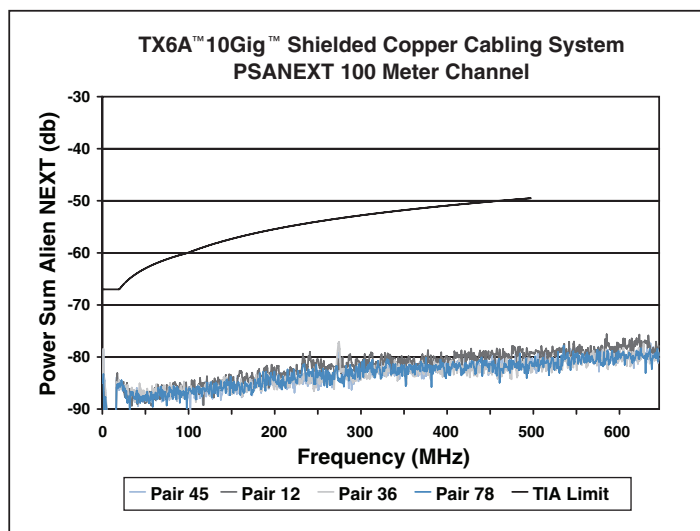
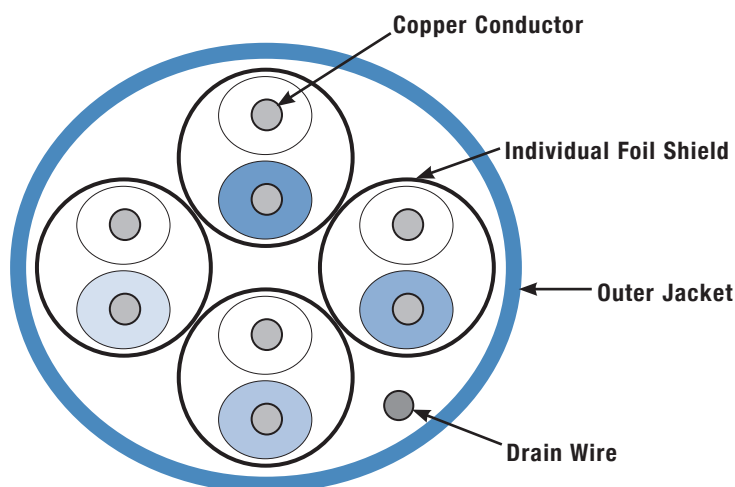
\*\*For lengths 2 to 10 meters (increments of one meter) 2.5, 15, 20, meters, change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray), substitute the IG suffix with BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet). For example, the part number for a blue 15-meter patch cord is STP6X15MBU.

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## additional specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lb. – ft)
Minimum Bend Radius	31.48mm (1.24 in.)
Electrical Test	
DC Resistance	< 8.9 Ohm per 100m (328 ft.) @ 20°C
DC Resistance Unbalanced	< 3% @ 20°C per ASTM 4568
Characteristic Impedance	100 Ohms + 15% from 1 to 600 MHz per ASTM D 4566
Nominal Propagation of Velocity (NVP)	CMP: 78%, CMR: 75% nominal
Operating Voltage, maximum	80V

## cable construction



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8/18/2016