

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

PANDUIT™

SPECIFICATION SHEET

specifications

Category 6A cable shall meet the IEC 61156-5 and ANSI/TIA-568-C.2 Category 6A component standards. The conductors shall be 23 AWG construction with polyethylene insulation. Each individual pair shall have a metallic foil shield and all four pairs shall be covered with a low smoke zero halogen (LSZH) 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

Electrical performance:	Certified channel performance in a 4-conductor configuration up to 100 meters and exceeds ISO 11801 Class E _A and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit™ TX6A™ 10Gig™ Copper Cabling System Certified component performance up to 100 meters and exceeds the IEC 61156-5 and ANSI/TIA-568-C.2 Category 6A component standards for supporting 10GBASE-T transmission over twisted-pair cabling systems
Conductors/insulators:	23 AWG bare copper wire covered by polyethylene insulation
Flame rating:	IEC 60332-1, or 60332-3-24 (-3c), NBN C 30-004 (F2), 60754-2 and 61034-2 PUFL6X04WH-KD: EN50575: Euroclass Eca PUFZ6X04BU-KD: EN50575: Euroclass Dca – s2, d2, a1
PoE Compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	100 N (25 lbf) maximum
Temperature rating:	32°F to 122°F (0°C to 50°C) during installation -4°F to 140°F (-20°C to 60°C) during operation
Cable jacket:	Low Smoke Zero Halogen (LSZH)
Cable diameter:	0.278 in. (7.1mm) nominal
Cable weight:	51 lbs./1640 ft. (23 kg/500m) 1640 ft. (500m) on a reel
Packaging:	55 lbs./1640 ft. (25 kg/500m) Package tested to ISTA procedure 1A

key features and benefits

Individually foiled pairs	Prevents the coupling near-end crosstalk and alien crosstalk between twisted pairs to ensure 10GBASE-T transmission performance
Internal drain wire	Facilitates grounding of the cable and provides for efficient performance and protection of network investment
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap

applications

TX6A™ 10Gig™ Shielded Copper Cable is 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. The 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 include 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
- Animation
- Scientific modeling
- Medical imaging

TX6A™ 10Gig™ Shielded Copper Cabling System

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LSZH (60332-1):	PUFL6X04WH-KD
LSZH (60332-3):	PUFZ6X04BU-KD

TX6A™ 10Gig™ Shielded Jack Module

Jack module:	CJS6X88TGY
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TX6A™ 10Gig™ Shielded Patch Cords

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

Mini-Com™ Angled All Metal Shielded Modular Patch Panels

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

Mini-Com™ Flat All Metal Shielded Modular Patch Panels

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

Cable Prep Tools

Wire stripping tool:	CWST
Wire stripping tool:	CJAST

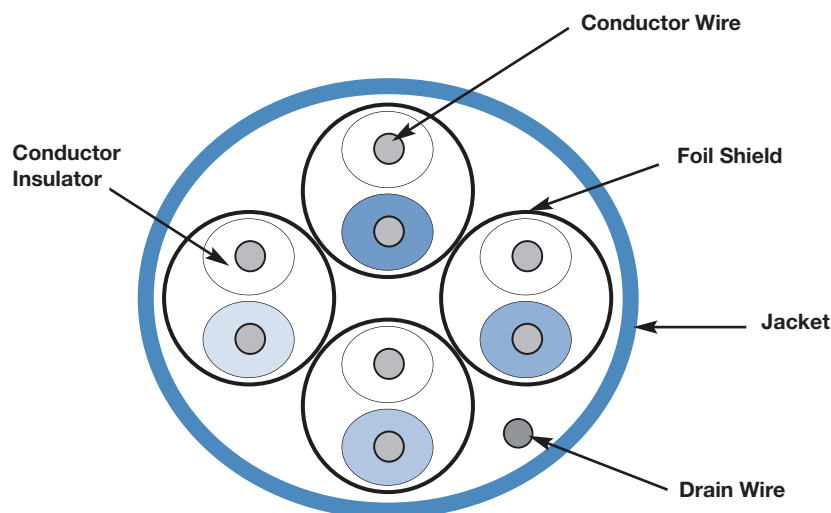
*For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-foot patch cord is STP6X15BU.

**For lengths 1 to 10 meters (increments of one meter) and 1.5, 2.5, 15, 20 meters, change the length designation in the part number to 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.

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

Mechanical Test	
Ultimate Breaking Strength	Consult factory
Minimum Bend Radius	8 x cable diameter during – installation 4 x cable diameter – installed
Electrical Test at 20°C per ASTM D4566	
DC Resistance	≤ 145 Ohm/km
DC Resistance Unbalance	≤ 2%
Mutual Capacitance	45 nF/km at 800 Hz nominal
Capacitance Unbalance	≤ 800 pF/km pair to ground nominal
Mean Characteristic Impedance	100 ± 5 Ohm at 100 MHz
Nominal Velocity of Propagation (NVP)	75%
Operating Voltage, Maximum	80V

cable construction



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