TX7000 ™ Shielded Copper Cable – S/FTP

PANDUIT®

specifications

Category 7A cable shall be constructed of 23 AWG copper conductors with polyethylene insulation. The copper conductors shall be twisted in pairs, each surrounded by a foil. All four pairs shall be surrounded by an overall braid within a low smoke zero halogen (LSZH) jacket. The TX7000™ Shielded Copper Cable must be installed as part of a complete TX6A™ 10Gig™ Shielded Copper Cabling System to achieve 10GBASE-T certified performance at swept frequencies up to 1500 MHz.

technical information

Electrical performance:	Certified performance in a 4-connector channel up to 100 meters and exceeds the requirements of the ISO 11801 Class E_A and ANSI/TIA-568-C.2 Category 6A, standards for supporting 10GBASE-T transmission over twisted-pair cabling systems when used as part of the Panduit® TX6A™ 10Gig™ Shielded Copper Cabling System
	Certified component performance up to 100 meters and meets or exceeds the component requirement of the IEC 61156-5 Category 7 standard
Conductors/ insulators:	23 AWG solid copper insulated with polyethylene
Flame rating:	IEC 60754-2, IEC 61034, and 60332, EN50575: Euroclass Dca – s2, d2, a1
PoE Compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	100N (25 lbf) maximum
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 60°C (-4°F to 140°F) during operation
Cable jacket:	Low Smoke Zero Halogen (LSZH)
Cable diameter:	7.8mm (0.307 in.) nominal
Cable weight:	34.0 kg/500m (75 lbs./1640 ft.)
Packaging:	500m (1640 ft.), 39 kg/500m (86 lbs./1640 ft.) Packaged tested to ISTA procedure 1A

key features and benefits

Individually foiled pairs	Exceptional suppression of internal near end crosstalk and high frequency external alien crosstalk which ensures 10GBASE-T transmission performance and EMI protection
Overall braid	Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Bulk packaging	500m (1640 ft.) per reel

applications

TX7000™ Shielded Copper Cable is a component of the TX6A™ 10Gig™ Shielded Copper Cabling System. This end-to-end system provides a cost effective media 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:	PSL7A04WH-KD

TX6A™ 10Gig ™ Shielded Jack Module

Jack module:	CJS6X88TGY

TX6A™ 10Gig ™ Shielded Patch Cords

Feet:	STP6X**IG
Meters:	STP6X***MIG

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

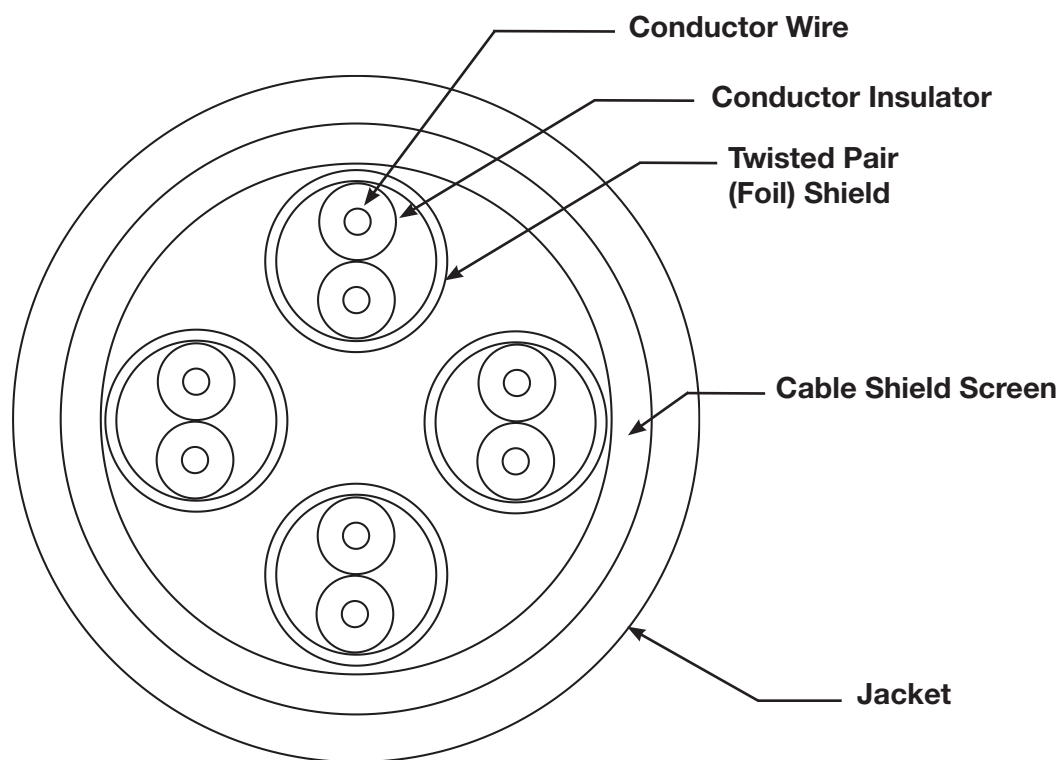|	
Wire snipping tool:	CWST
Wire stripping tool:	CJAST

*Standard cable color is White. Contact customer service for additional cable colors.
**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.

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additional specifications

Mechanical Test	
Ultimate Breaking Strength	>90 lbf (400 N)
Minimum Bend Radius	1.97 in. (50mm)
Electrical Test	
DC Resistance	<9.38 Ohm per 1328 ft. (100m) at 1 KHz
DC Resistance Unbalance	5%
Mutual Capacitance	<5.6 nF per 328 ft.(100m) at 1 kHz
Capacitance Unbalance	<330 pF per 328 ft. (100m) at 1 kHz
Characteristic Impedance	100 Ohm +/- 15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	75%
Operating Voltage, Maximum	80V

cable construction

Conductor Wire

Conductor Insulator

Twisted Pair
(Foil) Shield

Cable Shield Screen

Jacket

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

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