

TX7000™ Shielded Copper Cable – S/FTP

PANDUIT®

SPECIFICATION SHEET

specifications

Category 7 cable shall meet the IEC 61156-5 Class F component standard. The conductors shall be 23 AWG construction with foamed skin PE insulation. The copper conductors shall be twisted in pairs each covered by a foil shield within an overall braided shield and a low smoke zero halogen (LSZH) jacket.



technical information

Electrical performance: Certified performance in a 4-conductor channel up to 100 meters and exceeds the requirements of the ANSI/TIA-568-C.2 Category 6A, ISO 11810 Class E_A Edition 2.1, and IEEE 802.3an 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

Conductor/insulator: 23 AWG solid copper with foamed skin PE

Flame rating: IEC 60754-2, IEC 61034, IEC 60332-1-24, EN50575: Euroclass Eca

PoE compliance: Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications

Installation tension: 110N (25 lbf) maximum

Temperature rating: 0° to 50°C (32° to 122°F) during installation
-20° to 60°C (-4° to 140°F) during operation

Cable jacket: LSZH

Cable diameter: 7.3mm (0.287 in.) nominal

Cable weight: 26.7 kg/500m (60 lbs./1640 ft.)

Packaging: 500m (1640 ft.) on a reel, 28.7 kg/500m (63 lbs./1640 ft.)
Packaged tested to ISTA procedure 1A

key features and benefits

Individually foiled Prevents the coupling near-end crosstalk and alien crosstalk between twisted pairs to ensure 10GBASE-T transmission performance

Braided shield Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance at

Descending length cable markings Easy identification of remaining cable reduces installation time and cable scrap

Bulk packaging Supplied 500 meters to a 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 the most challenging network bandwidth needs are easily met today and tomorrow. Businesses are placing increased reliance on their networks to efficiently pass vital and time sensitive information throughout their enterprise. Usage of TX6A™ 10Gig™ Shielded Copper Cabling System include:

- Data center high bandwidth applications for switch-to-switch links, storage area networks aggregation of data
- 3-D modeling and work group file transfer
- Web-enabling applications, such as Voice over Internet Protocol (VoIP) and live video/audio broadcasting

TX6A™ 10Gig™ Shielded Copper Cabling System

TX7000™ Shielded Copper Cable

LSZH: PSL7004*-KD

Mini-Com® TX6A™ 10Gig™ Shielded Jack Module

Jack module: CJS6X88TG

TX6A™ 10Gig™ Shielded Patch Cords

Meters: STP6X**MIG

Feet: STP6X***IG

Mini-Com® All Metal Angled Modular Patch Panels

24-port, 1 RU: CPA24BLY

48-port, 2 RU: CPA48BLY

72-port, 2 RU: CPA72BLY

Mini-Com® All Metal Flat 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: CCAST

*To designate color, add suffix WH (White), DG (Dark Gray), IG (International Gray), and LG (Light Gray). For additional cable colors, contact customer service.

**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 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.

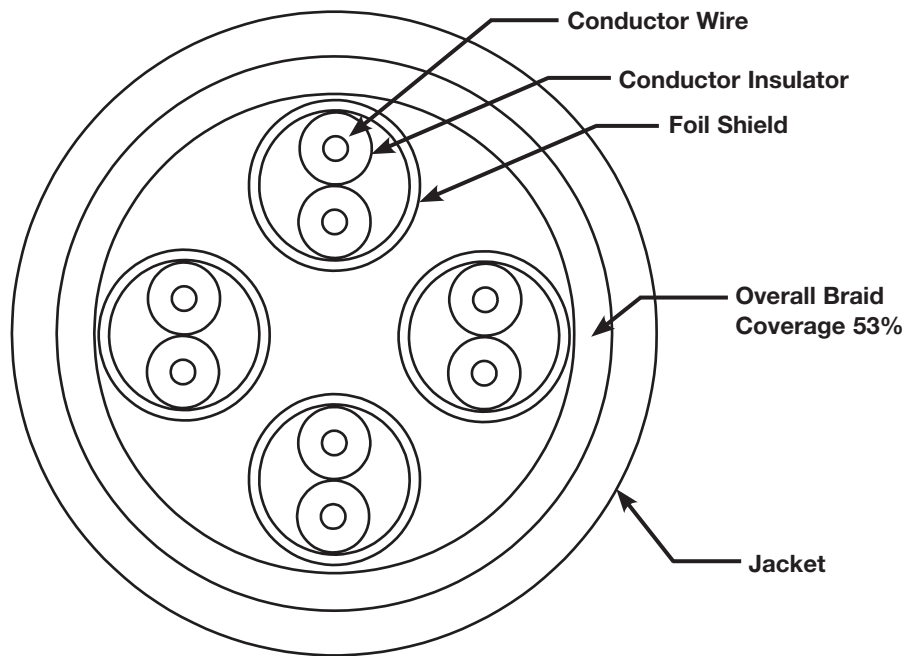
***For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray) substitute IG Suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-foot patch cord is STP6X16BU.

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additional specifications

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf.)
Minimum Bend Radius	8 x cable diameter
Electrical Test	
DC Resistance	≤165 ohm per km
Loop Resistance Unbalance	<2%
Mutual Capacitance	nominal 43 nF/km at 800 MHz
Capacitance Unbalance	≤1500 pF/km (pair/ground)
Characteristic Impedance	100 ± 15 ohm up to 100 MHz
Nominal Velocity of Propagation (NVP)	79% nominal

cable construction



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For more information

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