

# 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

<b>Electrical performance:</b>	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 <sub>A</sub> 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 at swept frequencies up to 600 MHz
<b>Conductor/insulator:</b>	23 AWG solid copper with foamed skin PE
<b>Flame rating:</b>	IEC 60754-2, IEC 61034, IEC 60332-1-24
<b>Installation tension:</b>	110N (25 lbf) maximum
<b>Temperature rating:</b>	0° to 50°C (32° to 122°F) during installation -20° to 60°C (-4° to 140°F) during operation
<b>Cable jacket:</b>	LSZH
<b>Cable diameter:</b>	7.6mm (0.301 in.) nominal
<b>Cable weight:</b>	27 kg/500m (60 lbs./1640 ft.)
<b>Packaging:</b>	500m (1640 ft.) on a reel, 30 kg/500m (63 lbs./1640 ft.) Packaged tested to ISTA procedure 1A

## key features and benefits

<b>Individually foiled</b>	Prevents the coupling near-end crosstalk and alien crosstalk between twisted pairs to ensure 10GBASE-T transmission performance
<b>Braided shield</b>	Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance at all swept frequencies up to 600 MHz
<b>Tested beyond the standards</b>	Cable has been characterized to 1000 MHz, 400 MHz above the standard
<b>Descending length cable markings</b>	Easy identification of remaining cable reduces installation time and cable scrap
<b>Bulk packaging</b>	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.

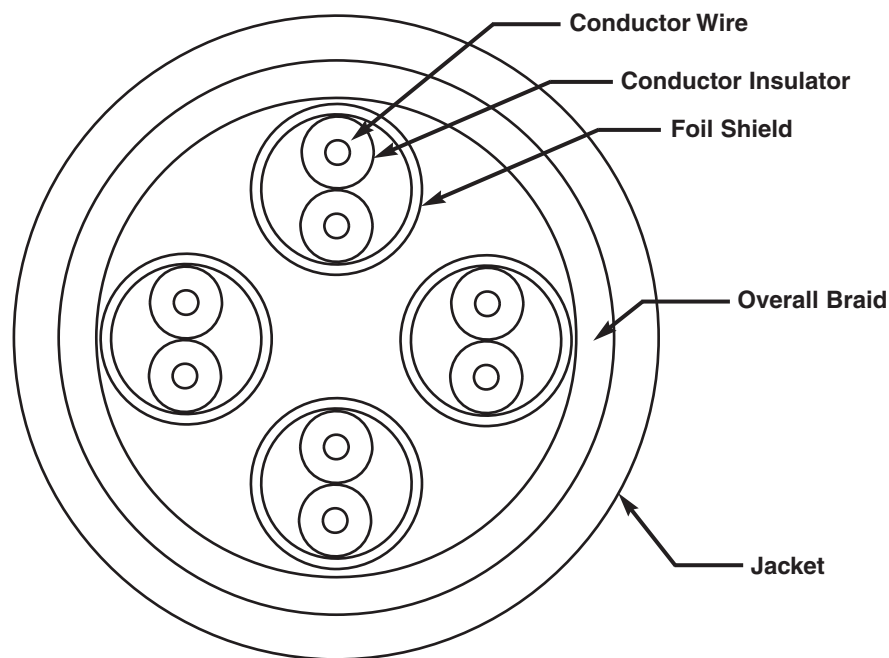
\*\*\*For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray) substitute IG Suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (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	
<i>Ultimate Breaking Strength</i>	>400 N (90 lbf.)
<i>Minimum Bend Radius</i>	8 x cable diameter
Electrical Test	
<i>DC Resistance</i>	≤165 ohm per km
<i>Loop Resistance Unbalance</i>	≤2%
<i>Mutual Capacitance</i>	nominal 43 nF/km at 800 MHz
<i>Capacitance Unbalance</i>	≤1500 pF/km (pair/ground)
<i>Characteristic Impedance</i>	100 ± 15 ohm up to 100 MHz
<i>Nominal Velocity of Propagation (NVP)</i>	79% nominal

## Cable Construction



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