

### 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

<b>Electrical performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 Class E <sub>A</sub> and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems and 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
<b>Conductors/insulators:</b>	23 AWG bare copper wire covered by polyethylene insulation
<b>Flame rating:</b>	IEC 60332-1, 60754-2 and 61034
<b>Installation tension:</b>	100 N (25 lbf) maximum
<b>Temperature rating:</b>	32°F to 122°F (0°C to 50°C) during installation -4°F to 140°F (-20°C to 60°C) during operation
<b>Cable jacket:</b>	Low Smoke Zero Halogen (LSZH)
<b>Cable diameter:</b>	0.278 in. (7.1mm) nominal
<b>Cable weight:</b>	51 lbs./1640 ft. (23 kg/500m) 1640 ft. (500m) on a reel
<b>Packaging:</b>	55 lbs./1640 ft. (25 kg/500m) Package tested to ISTA procedure 1A

### key features and benefits

<b>Individually foiled pairs</b>	Prevents the coupling near-end crosstalk and alien crosstalk between twisted pairs to ensure 10GBASE-T transmission performance
<b>Internal drain wire</b>	Facilitates grounding of the cable and provides for efficient performance and protection of network investment
<b>Descending length cable markings</b>	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

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

**LSZH:** PUFL6X04WH-KD

#### TX6A™ 10Gig™ Shielded Jack Module

**Jack module:** CJS6X88TGY

#### TX6A™ 10Gig™ Shielded Patch Cords

**Foot lengths:** STP6X\*IG  
**Meter lengths:** 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:** CJUST

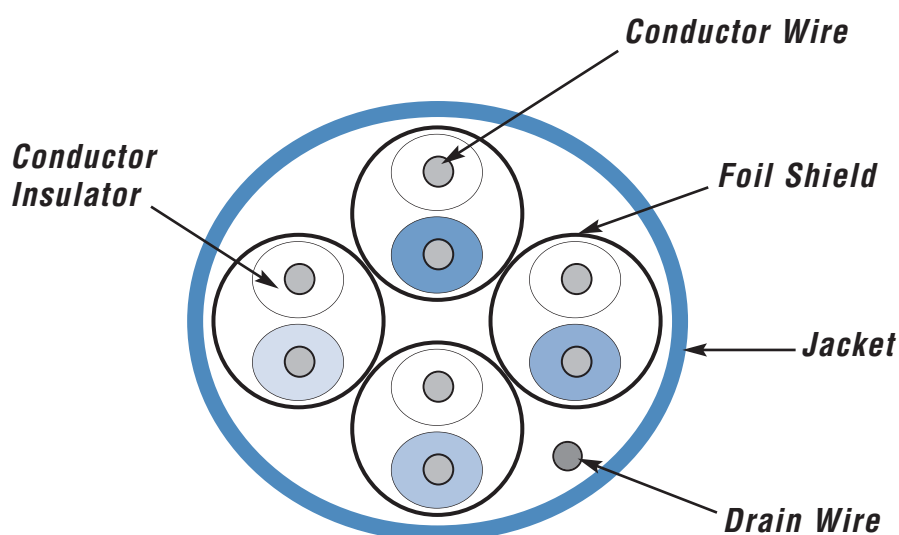
\*For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), 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.

## Additional Specifications

Mechanical Test	
Ultimate Breaking Strength	Consult factory
Minimum Bend Radius	8 x cable diameter – 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%

## Cable Construction



### WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA  
Markham, Ontario  
cs-cdn@panduit.com  
Phone: 800.777.3300

PANDUIT EUROPE LTD.  
London, UK  
cs-emea@panduit.com  
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.  
Republic of Singapore  
cs-ap@panduit.com  
Phone: 65.6305.7575

PANDUIT JAPAN  
Tokyo, Japan  
cs-japan@panduit.com  
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA  
Guadalajara, Mexico  
cs-la@panduit.com  
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.  
Victoria, Australia  
cs-aus@panduit.com  
Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to [www.panduit.com/warranty](http://www.panduit.com/warranty)

For more information

Visit us at [www.panduit.com](http://www.panduit.com)

Contact Customer Service by email:  
[cs@emea.com](mailto:cs@emea.com)

**PANDUIT**™

©2010 Panduit Corp.  
ALL RIGHTS RESERVED.  
**WW-COSP138-GB**  
11/2010