

TX6000™ Category 6 F/UTP Shielded Copper Cable

specifications

Category 6 F/UTP cable shall exceed ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards. The conductors shall be 23 AWG copper constructed with HDPE insulation. The copper conductors shall be twisted in pairs, and all four pairs shall be covered with an overall foil shield and covered by a low smoke zero halogen (LSZH) jacket.



technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and meets and exceeds the requirements of ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 standards at swept frequencies up to 250 MHz Certified component performance up to 100 meters and exceeds the component requirement of IEC 61156-5 Category 6 and ANSI/TIA-568-C.2 Category 6 component standards at swept frequencies up to 250 MHz
Conductors/insulators:	23 AWG solid copper insulated with HDPE
Flame rating:	LSZH – IEC 60332-1, IEC 60754-1, IEC 60754-2, IEC 61034-2
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (-4°F to 167°F) during operation
Cable jacket:	LSZH – Low Smoke Zero Halogen
Cable diameter:	7.5mm (0.296 in.) nominal
Cable weight:	15 kg/305m (33.0 lbs./1000 ft.)
Packaging:	305m (1000 ft.) reel Package tested to ISTA Procedure 1A

key features and benefits

Overall metallic foil shield	Provides superior structural integrity, reduces signal emissions for secure transmissions and reduces external interference to ensure exceptional cable performance at all swept frequencies
Third party tested	Cable has been tested as part of the TX6000™ Category 6 F/UTP Copper Cabling System by an independent laboratory and complies with the electrical channel requirements of ISO 11801 Class E and ANSI/TIA-568-C.2 Category 6 standards
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap
Packaged on a reel	Ensures proper performance and provides quick installation

applications

TX6000™ Shielded Copper Cable is a component of the Panduit® TX6000™ Shielded Copper Cabling System. Interoperable and backwards compatible, this end-to-end system provides design flexibility to protect network investments well into the future. With certified performance to the ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards, this system is ideal for today's high-performance work stations and will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet), 10000BASE-T (10 Gigabit Ethernet over limited distances as specified in the industry 10GBASE-T standards)
- 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM
- Token ring 4/16

TX6000™ F/UTP Shielded Copper Cabling System

TX6000™ F/UTP Shielded Copper Cable

LSZH: PFL6004*-G

Mini-Com® TX6™ PLUS Shielded Jack Module

Jack module: CJS688TGY**

TX6A™ 10Gig™ Shielded Patch Cords

Meter lengths: STP6X^MIG

Foot 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: CJUST

*To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

**Add -24 to end of part number for 24-pack convenience package.

^For lengths 1 to 10 meters (increments of one meter) and 0.5, 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), RD (Red), GR (Green), YL (Yellow), OR (Orange), or VL (Violet) after the M in the part number. For example, the part number for a blue 15-meter patch cord is STP6X15MBU.

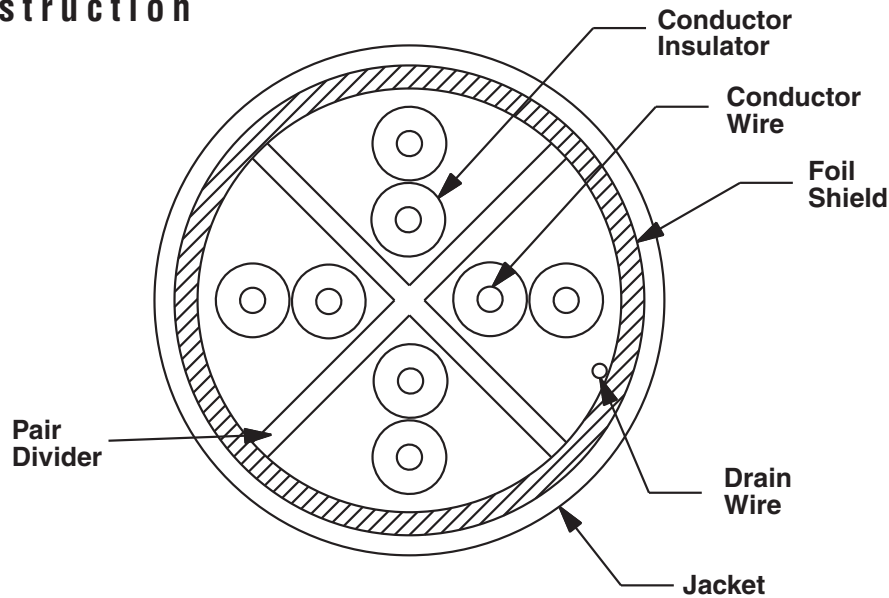
^^For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to the desired length. For standard cable colors other than IG (International Gray), substitute IG suffix with BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet) at the end of the part number. For example, the part number for a blue 5-foot patch cord is STP6X5BU.

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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>Nominal Velocity of Propagation (NVP)</i>	67%

cable construction



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