

TX6A™ 10Gig™ Shielded Copper Cable – F/FTP

specifications

Category 6A cable shall be constructed of 23 AWG copper conductors with PE insulation. The copper conductors shall be twisted in pairs, with each pair covered in foil. All four pairs shall be surrounded by an overall metallic foil shield within a low smoke, flame retardant LSZH jacket.



technical information

Electrical performance: Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E_A and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems 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 and ANSI/TIA-568-C.2 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems

Conductors/insulators:	23 AWG solid bare copper wire covered by PE insulation
Flame rating:	IEC 60332-1 or 60332-3-25 (-3d), 60754-2, 61034-2, NBN C 30-004 (F2), EN 50575: Euroclass Dca - s2, d2, a1
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	-20°C to 75°C (-4°F to 167°F) Operation Temperature
Cable jacket:	LSZH
Cable diameter:	7.0mm (0.276 in.) nominal
Cable weight:	29.7 kg/ 500m (65.5 lbs./1640 ft.)
Packaging:	500m (1640 ft.) on a reel Packaged tested to ISTA Procedure 1A

key features and benefits

Foiled individual pairs:	Shielded pairs for exceptional cable performance
Overall foil shield:	Provides superior structural integrity and reduces low interference, including alien crosstalk to ensure exceptional cable performance at all swept frequencies up to 500 MHz
Internal drain wire:	Facilitates means of grounding the cable and provides for efficient performance and protection of network investment
Descending length cable markings:	Easy identification of remaining cable reduces installation time and cable scrap
Reel:	500m (1640 ft.) supplied on a reel

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:

- 10GBASE-T Ethernet
- Data Center applications
- Virtual business management applications

**TX6A™ 10Gig™
Shielded Copper Cabling System**

**TX6A™ 10Gig™
Shielded Copper Cable – F/FTP**

LSZH (60332-1): PFFL6X04WH-CED*

LSZH (60332-3): PFFZ6X04BU-CED*

**TX6A™ 10Gig™
Shielded Jack Module**

Jack module: CJS6X88TGY

**TX6A™ 10Gig™
Shielded Patch Cords**

Meters: STP6X**MIG

Feet: 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: CCAST

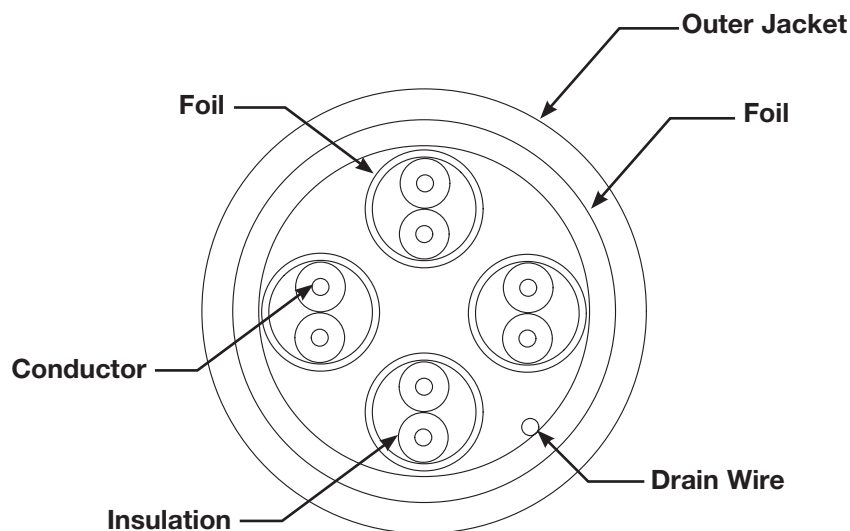
*For additional cable colors, contact customer service.

**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 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 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.

TX6A™ 10Gig™ Shielded Copper Cable – F/FTP

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	8 x cable diameter during installation 4 x cable diameter during operation
Electrical Test	
Mutual Capacitance	<5.6 nF per 100m (328 ft.) at 1 KHz
Characteristic Impedance	<1600 pF per 3280 ft. (1000m) at 1 kHz
Nominal Velocity of Propagation (NVP)	ca. 72% nominal
DC Resistance	2%
Capacitance Unbalance	<330 pF per 100m (328 ft.)
Delay Skew	45ns per 100m (328 ft.)
Operating Voltage, Maximum	80V



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