

TX6A™ Category 6A Shielded Copper Cable – F/UTP

SPECIFICATIONS

Category 6A cable shall be constructed of 23 AWG copper conductors with LSZH insulation. The copper conductors shall be twisted in pairs and separated by an integrated pair separator. All four pairs shall be surrounded by an overall metallic foil shield within a low smoke zero halogen jacket. The TX6A Category 6A Shielded Copper Cable must be installed as part of a complete TX6A Category 6A Shielded Copper Cabling System to achieve 10GBASE-T certified performance.



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LSZH: PFL6X04*-MEG

*Colours: BU (Blue), WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), or BL (Black)

TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds the requirements ANSI/TIA-568.2-E Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the TX6A Category 6A Shielded Copper Cabling System Certified component performance up to 100m and meets or exceeds the component requirement of the ANSI/TIA-568.2-E 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
Insulation diameter:	0.040 in. - 0.047 in. (1.03mm - 1.19mm)
Flame rating:	IEC 60332-1
Installation tension:	110 N (25 lbf) maximum
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Temperature rating:	Installation: 0°C to 50°C (32°F to 122°F) Operation: -20°C to 75°C (-4°F to 167°F)
Cable jacket:	LSZH
Cable diameter:	7.3mm (0.287 in.)
Cable weight:	16 kg/305m (35 lbs./1000 ft.)
Packaging:	305m (1000ft) on a reel, Packaged tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Integrated pair divider:	Separates pairs for exceptional cable performance
Overall foil shield:	Provides superior structural integrity and reduces low frequency external interference 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

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APPLICATIONS

TX6A Category 6A Shielded Copper Cable is a component of the TX6A Category 6A 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 Category 6A 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

ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate breaking strength:	> 400 N (90 lbf)
Minimum bend radius:	8 x cable diameter
Electrical Test	
Nominal Velocity of Propagation (NVP):	65% nominal
Maximum operating voltage:	80V

ENGINEERING DRAWINGS

