

TX6A™ Unshielded Category 6A U/UTP Copper Cable

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6A cable shall be constructed of 23 AWG copper conductors with FEP insulation. The copper conductors shall be twisted in pairs and separated by a cross-divider. All four pairs shall be surrounded by a non-conductive AXT barrier tape and a flame retardant PVC (CMP) jacket.



TECHNICAL INFORMATION

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirement of the ANSI/TIA-568.2-D Category 6A Standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the TX6A Copper Cabling System.
	Certified component performance up to 100 meters and meets or exceeds the component requirement of the ANSI/TIA-568.2-D Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems.
Cable diameter:	0.246 in. (6.2mm) nominal
Standards compliance:	UL Listed CMP-LP (0.7A)
Conductors/insulators:	23 AWG solid copper insulated with FEP
Installation diameter:	0.041 in. – 0.44 in. (1.09mm – 1.12mm)
Flame rating:	Plenum (CMP) NFPA 262
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	32°F to 140°F (0°C to 60°C) during installation -4°F to 167°F (-20°C to 75°C) during operation
Cable jacket:	Flame retardant PVC (CMP)
Cable weight:	38 lbs./1000 ft. (17 kg/305m)
Packaging:	1000 ft. (305m) on a reel Packaged tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Headroom warranty:	Provides margin above the industry standard for both electrical and alien crosstalk performance
Round cable design:	Improves fill capacity, cable management, reduces required bend radius and allows efficient use of pathways and spaces
Highest density:	All testing and headroom based on 48-port/1 RU panels
Desending length cable markings:	Easy identification of remaining cable to reduce installation time and cable scrap

APPLICATIONS

Category 6A U/UTP Copper Cable is a component of the TX6A U/UTP Copper Cabling System when installed according to the above length considerations. 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-568.2-D Category 6A standards. Usage of the TX6A U/UTP Copper Cabling System includes:

- 10GBASE-T Ethernet
- Data center I/O consolidation
- Data center server virtualization
- Consolidation of network interconnects
- Back-bone aggregation
- Parallel processing and high-speed computing



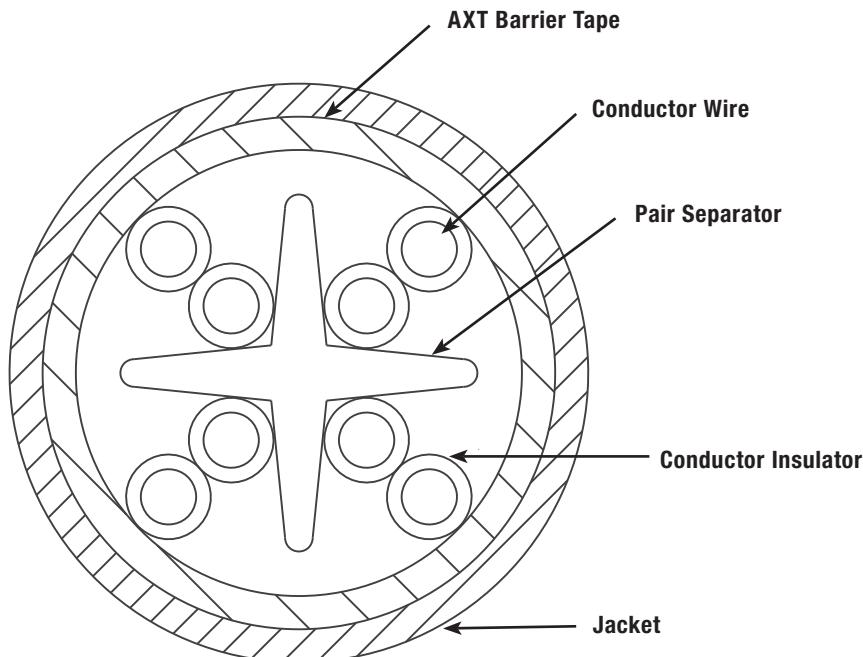
All listed part numbers are compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to customers in the United States.

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ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate breaking strength:	> 400 N (90 lbf)
Minimum bend radius:	4 x cable diameter
Electrical Test	
DC resistance:	< 8.0 Ohm per 328 ft. (100m)
DC resistance unbalance:	< 4%
Mutual capacitance:	< 5.6 nF per 328 ft. (100m) at 1 kHz
Capacitance unbalance:	< 330 pF per 328 ft. (100m) at 1 kHz
Characteristic impedance:	100 Ohm ± 15% up to 100 MHz
Nominal Velocity of Propagation (NVP):	70% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWING



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