

# TX6A™ Shielded Copper Cable – F/UTP

North America

**PANDUIT®**  
SPECIFICATION SHEET

## SPECIFICATIONS

Category 6A cable shall be constructed of 23 AWG copper conductors with polyolefin 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 flame retardant PVC (CMR) jacket. The TX6A Shielded Copper Cable must be installed as part of a complete TX6A Shielded Copper Cabling System to achieve 10GBASE-T certified performance.



## TECHNICAL INFORMATION

<b>Electrical performance:</b>	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 Shielded 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.
<b>Conductors/insulators:</b>	23 AWG solid bare copper wire covered by polyolefin insulation
<b>Insulation diameter:</b>	0.041 in. - 0.044 in. (1.03mm - 1.12mm)
<b>Flame rating:</b>	UL1666
<b>Installation tension:</b>	110 N (25 lbf.) maximum
<b>PoE Compliance</b>	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
<b>Temperature rating:</b>	32°F to 140°F (0°C to 60°C) during installation -4°F to 167°F (-20°C to 75°C) during operation
<b>Cable jacket:</b>	Flame retardant PVC (CMR)
<b>Cable diameter:</b>	0.288 in. (7.3mm) nominal
<b>Cable weight:</b>	33 lbs./1000 ft. (18 kg/305m)
<b>Packaging:</b>	1000 ft. (305m) on a reel Packaged tested to ISTA Procedure 1A

## KEY FEATURES AND BENEFITS

<b>Integrated pair divider:</b>	Separates pairs for exceptional cable performance
<b>Overall foil shield:</b>	Provides superior structural integrity and reduces low frequency external interference to ensure exceptional cable performance at all swept frequencies up to 500 MHz
<b>Internal drain wire:</b>	Facilitates means of grounding 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
<b>Bulk packaging:</b>	Supplied 305m (1000') on a reel

## APPLICATIONS

TX6A Shielded Copper Cable is a component of the TX6A 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 solution helps ensure organizations efficiently and reliably meet their data transmission needs. Usage of the TX6A 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



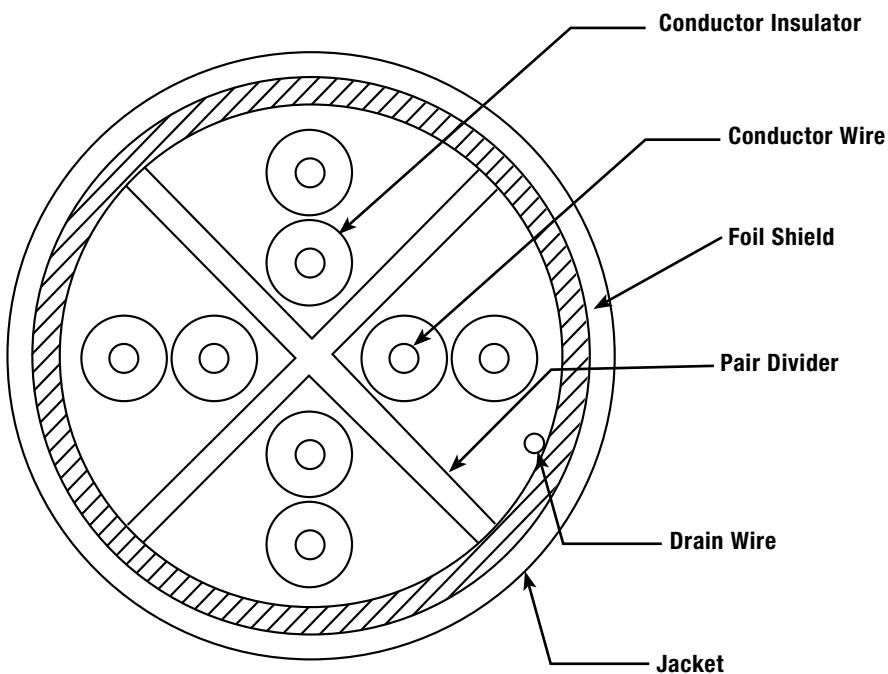
All Part Numbers Compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to the United States.

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## ADDITIONAL SPECIFICATIONS

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	8 x cable diameter
Engineering Test	
Nominal Velocity of Propagation (NVP)	68% nominal
Operating Voltage, Maximum	80 V

## ENGINEERING DRAWING



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