

TX6A™ Unshielded Category 6A U/UTP Copper Cable

Europe

PANDUIT™
SPECIFICATION SHEET

SPECIFICATIONS

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with SFS-PO insulation. The copper conductors shall be twisted in pairs with each pair individually covered with an AXT barrier tape. The AXT barrier tape shall not be grounded. All four pairs shall then be covered with a Low Smoke Zero Halogen (LSZH) jacket.



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LSZH: PUL6X04**-HEG

**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 100 meters and exceeds the requirements of ISO 11801 Class E _A standards swept up to 650 MHz for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the TX6A U/UTP Copper Cabling System.
Cable diameter:	7.0mm (0.275 in.) nominal
Conductors/insulators:	23 AWG solid copper insulated with SFS-PO
Insulation diameter:	1.27mm – 1.30mm (0.050 in. – 0.051 in.)
Flame rating:	IEC 60332-1, IEC 60754, IEC 61034 EN 50575: EuroClass Dca-s2,d2,a1
PoE compliant:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110N (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
Cable weight:	15 kg/500m (34 lbs./1640 ft.)
Packaging:	305m (1000 ft.) on a reel Packaged tested to ISTA procedure 1A

KEY FEATURES AND BENEFITS

Robust cable design:	Small cable diameter delivers superior PSANEXT and PSAACRF suppression
Round cable design:	Improves fill capacity, cable management, reduces required bend radius and allows efficient use of pathways and spaces
Highest density:	All testing based on 48-port/1RU panels
Descending length cable markings:	Easy identification of remaining cable to reduce installation time and cable scrap

APPLICATIONS

The TX6A U/UTP Copper Cable is a component of the TX6A Copper Cabling System. Interoperable and backward compatible, this end-to-end system provides design flexibility to protect network investments well into the future.

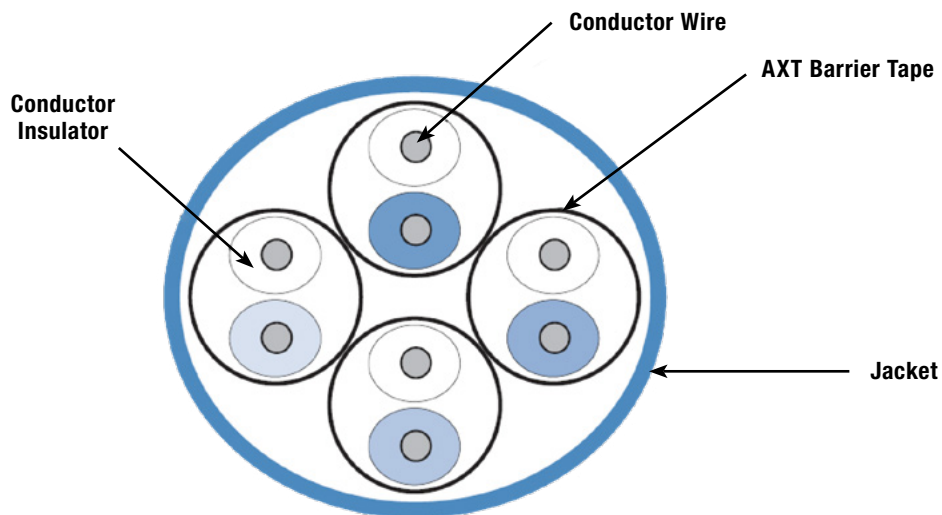
Key applications include:

- 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

TX6A™ Unshielded Category 6A U/UTP Copper Cable

Mechanical Testing	
Ultimate Breaking Strength	> 400 N (90 lbf)
Minimum Bend Radius	8 x cable diameter
Electrical Testing	
DC Resistance	<9.38 Ohm per 328 ft. (100m)
DC Resistance Unbalance	<5%
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)	76% nominal
Operating Voltage, Maximum	80 V

ENGINEERING DRAWING



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