

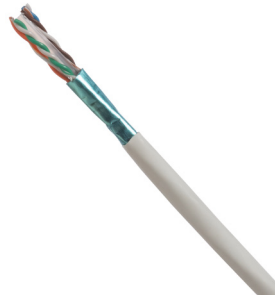
TX6A™ UTP Copper Cable Standard Compliant Plus

Latin America, Europe,
Middle East, Africa and
Asia Pacific

PANDUIT™
SPECIFICATION SHEET

SPECIFICATIONS

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with HDPE Low Smoke Zero Halogen (LSZH), insulation. The copper conductors shall be twisted in pairs and separated by a tape-style divider. All four pairs shall be surrounded by a metallic AXT barrier tape and a flame retardant jacket. The AXT barrier tape shall suppress the effects of alien crosstalk while retaining UTP electromagnetic interference immunity. The small cable diameter shall maximize cable density such that existing pathways can be utilized when upgrading from Category 6 cabling.



TX6A UTP Copper Cable

LSZH: PUL6XHD04**-EG

**Colors: BU (Blue), WH (White), or IG (International Gray)
For additional cable colors, contact customer service.

TECHNICAL INFORMATION

Category 6A/Class E_A channel and component performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ANSI/TIA-568.2-D Category 6A and 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 UTP Copper Cabling System. Certified component performance up to 100 meters and exceeds the ANSI/ TIA-568.2-D Category 6A and IEC 61156-5 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems.
Cable diameter:	6.2mm (0.245 in.) nominal
Conductors/insulators:	23 AWG solid copper insulated with HDPE
Flame rating:	IEC 60332-3-22, 60754-2, 61034-2; 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:	110 N (25 lbf.) maximum
Temperature rating:	0°C to 60°C (32°F to 140°F) during installation -20°C to 75°C (-4°F to 167°F) during operation
Cable jacket:	HDPE
Cable weight:	13kg/305m (29 lbs./1000 ft.)
Packaging:	305 meters (1000 ft.) Packaged tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

Superior headroom warranty:	Provides the highest worst-case margins above the industry standard for both electrical and alien crosstalk performance
High density cable design:	Improves fill capacity, cable management, reduces required bend radius and allows efficient use of pathways and spaces
Extended temperature range:	Allows operation in 75°C (167°F) ambient environment providing error free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications
Highest density:	All testing and headroom based on 48-port/1 RU panels
Descending length cable markings:	Easy identification of remaining cable to reduce installation time and cable scrap

APPLICATIONS

The TX6A UTP Copper Cable with Standard Compliant Plus Technology 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.

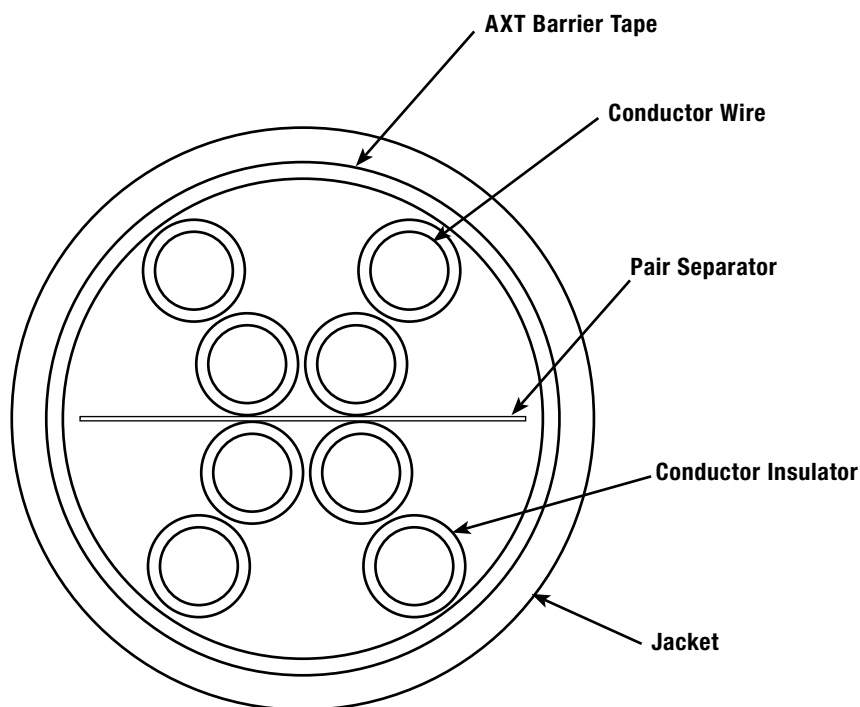
Key applications include:

- 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™ UTP Copper Cable Standard Compliant Plus

Mechanical Test	
Ultimate Breaking Strength	> 90 lbf (400 N)
Minimum Bend Radius	4 x cable diameter
Electrical Test	
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	< 160 pF per 328 ft. (100m) at 1 kHz
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	65% nominal
Operating Voltage, Maximum	80 V

ENGINEERING DRAWING



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5/2024