

# TX6A™ Unshielded Category 6A Copper Cable

## specifications

Category 6A/Class E<sub>A</sub> cable shall be constructed of 23 AWG copper conductors with HDPE insulation. The copper conductors shall be twisted in pairs with each pair individually covered with a metallic foil barrier tape. The foil barrier tape shall not be grounded. All four pairs shall then be covered with a Low Smoke Zero Halogen (LSZH) jacket.



## technical information

<b>Category 6A/Class E<sub>A</sub> channel performance:</b>	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ISO 11801 Class E <sub>A</sub> standards swept up to 650 MHz for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit® TX6A™ UTP Copper Cabling System.
<b>Cable diameter:</b>	7.2mm (0.283 in.) nominal
<b>Conductors/insulators:</b>	23 AWG solid copper insulated with flame retardant HDPE (LSZH)
<b>Flame rating:</b>	LSZH (60332-1): IEC 60332-1, IEC 60754, IEC 61034, EuroClass Dca-s2,d2,a1 LSZH (Cca): IEC 60332-1, IEC 60754, IEC 61034, EN 50575: EuroClass Cca-s1a,d0,a1 Note that the d0 classification applies only to product manufactured on or after February 9, 2020. Product manufactured prior has the d1 classification.
<b>PoE compliant:</b>	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
<b>Installation tension:</b>	110N (25 lbf) maximum
<b>Temperature rating:</b>	0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (-4°F to 167°F) during operation
<b>Cable jacket:</b>	HDPE (LSZH)
<b>Cable weight:</b>	15.4 kg/305m (33.9 lbs./1000 ft.); 25.3 kg/500m (55.8 lbs./1640 ft.)
<b>Packaging:</b>	17.8 kg/305m (39.2 lbs./1000 ft.); 26.2 kg/500m (57.8 lbs./1640 ft.) Package tested to ISTA procedure 1A

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**LSZH (60332-1):** PUL6X04\*-HE+

**LSZH (Cca):** PUY6X04\*-HE+

\* To designate colour, add suffix WH (White) and BU (Blue). For additional cable colours, contact customer service.  
+ G for 305m reel; D for 500m reel

## key features and benefits

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

## applications

The TX6A™ UTP Copper Cable with MaTriX 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:

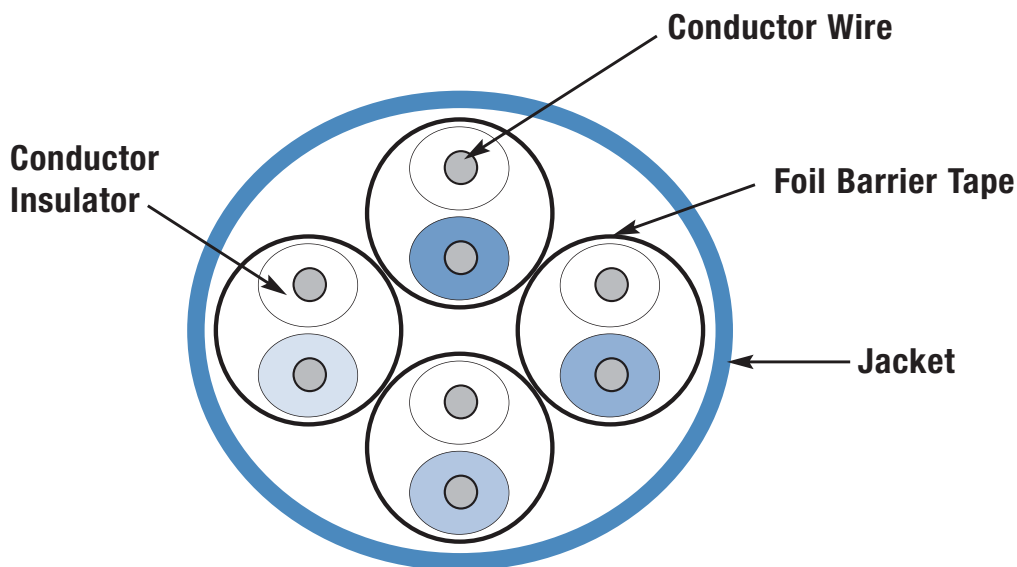
- 10GBASE-T Ethernet
- Data center I/O consolidation
- Data center server virtualization
- Consolidation of network interconnects
- Back-bone aggregation
- Parallel processing and high speed computing

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## additional specifications

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	<330 pF per 328 ft. (100m) at 1 kHz
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	Panduit 76%
Operating Voltage, Maximum	80 V

## cable construction



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5/2021