TX6A™ Shielded Copper Cable – U/FTP

PANDUIT™

SPECIFICATION SHEET

specifications

Category 6A cable shall meet the IEC 61156-5 and ANSI/TIA-568.2-D Category 6A component standards. The conductors shall be 23 AWG construction with polyethylene insulation. Each individual pair shall have a metallic foil shield and all four pairs shall be covered with a low smoke zero halogen (LSZH) jacket. The shielded cable shall provide superior alien crosstalk performance. The TX6A™ Shielded Cable must be installed as part of the TX6A™ Shielded Copper Cabling System to achieve certified 10GBASE-T performance.

TX6A™ Shielded Copper Cabling System	
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LSZH (Dca):	PUFL6X04*-HED
LSZH (Cca):	PUFY6X04*-HED

*To designate colour, replace * with WH for White or BU for Blue.
For additional cable colours, contact customer service.

technical information

Electrical performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds ISO 11801 Class E_A and ANSI/TIA-568.2-D Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the Panduit™ TX6A™ Copper Cabling System. Certified component performance up to 100 meters and exceeds the IEC 61156-5 and ANSI/TIA-568.2-D Category 6A component standards for supporting 10GBASE-T transmission over twisted-pair cabling systems.
Conductors/ insulators:	23 AWG bare copper wire covered by polyethylene insulation
Insulation diameter:	1.285mm (0.051 in.) nominal
Flame rating:	IEC 60332-1, IEC 60754, and IEC 61034 EN 50575: EuroClass Dca-s2,d2,a1 EN 50575: EuroClass Cca-s1a,d0,a1 Note that the d0 classification applies only to product manufactured on or after March 1, 2021. Product manufactured prior, has the d1 classification.
PoE Compliance:	Meets IEEE 802.3af, IEEE 802.3at, and IEEE 802.3bt for PoE applications
Installation tension:	100 N (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:	Low Smoke Zero Halogen (LSZH)
Cable diameter:	7.2mm (0.283 in.) nominal
Cable weight:	Dca: 24.6 kg/500m (54.2 lbs./1640 ft.) Cca: 26.1 kg/500m (57.5 lbs./1640 ft.)
Packaging:	Dca: 24.6 kg/500m (59.5 lbs./1640 ft.) Cca: 28.4 kg/500m (62.6 lbs./1640 ft.) Package tested to ISTA procedure 1A

key features and benefits

Packaging	Prevents the coupling near-end crosstalk and alien crosstalk between twisted pairs to ensure 10GBASE-T transmission performance
Internal drain wire	Facilitates grounding of the cable and provides for efficient performance and protection of network investment
Descending length cable markings	Easy identification of remaining cable reduces installation time and cable scrap

applications

TX6A™ Shielded Copper Cable is a component of the Panduit™ 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 Panduit 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:

- Stacking switches and switch-to-switch links
- Storage area networks
- Aggregation of Gigabit Ethernet channels
- Real-time intensive financial transactions
- Animation
- Scientific modeling
- Medical imaging

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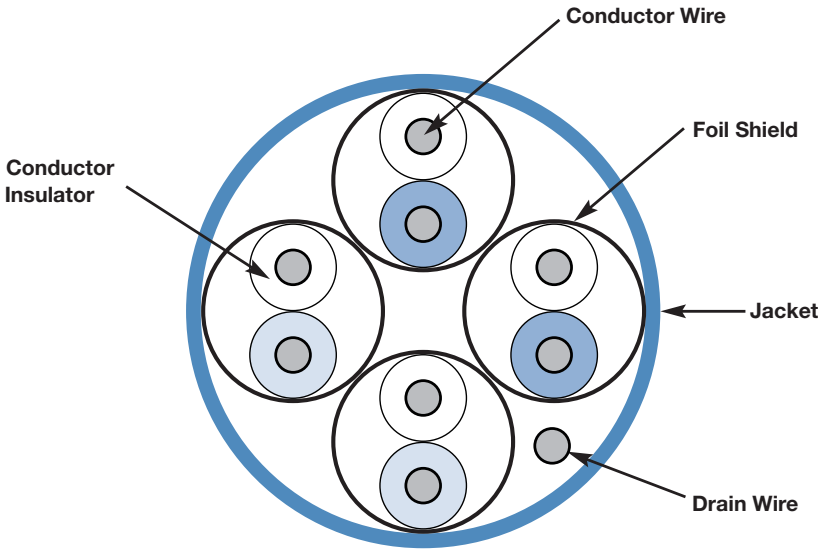
additional specifications

Mechanical Test	
Ultimate Breaking Strength	400 N (89.9 lbs.) minimum
Minimum Bend Radius	8 x cable diameter during – installation 4 x cable diameter – installed
DC Resistance	≤ 77 Ohm/km
DC Resistance Unbalance	≤ 2%
Mutual Capacitance	40 pF/m nom @ 1 kHz
Capacitance Unbalance	1.6 pF/m max. @ 1 kHz
Mean Characteristic Impedance	100 ± 5 Ohm at 100 MHz
Electrical Test at 20°C per ASTM D4566	
Nominal Velocity of Propagation (NVP)	76%
Operating Voltage, Maximum	80 V

cable construction



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