

TX6A™ Unshielded Category 6A 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 (LSFRZH) jacket.



TX6A Unshielded Category 6A Copper Cable

LSZH: PUJ6X04**-HEG

**Colors: 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. Certified component performance up to 100 meters and exceeds the component requirements of the IEC 61156-5 Category 6A standards at swept frequencies up to 500MHz
Conductors/insulators:	23 AWG bare copper wire covered with SFS-PO
Insulation diameter:	1.27-1.30mm
Flame rating:	EN50575: Euroclass Cca-s1a-d0-a1
PoE compliance:	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 50°C during installation -20°C to 75°C during operation
Cable jacket:	LSFRZH
Cable diameter:	7.2mm nominal
Cable weight:	17 kg/500m
Packaging:	305m on a reel Package 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.

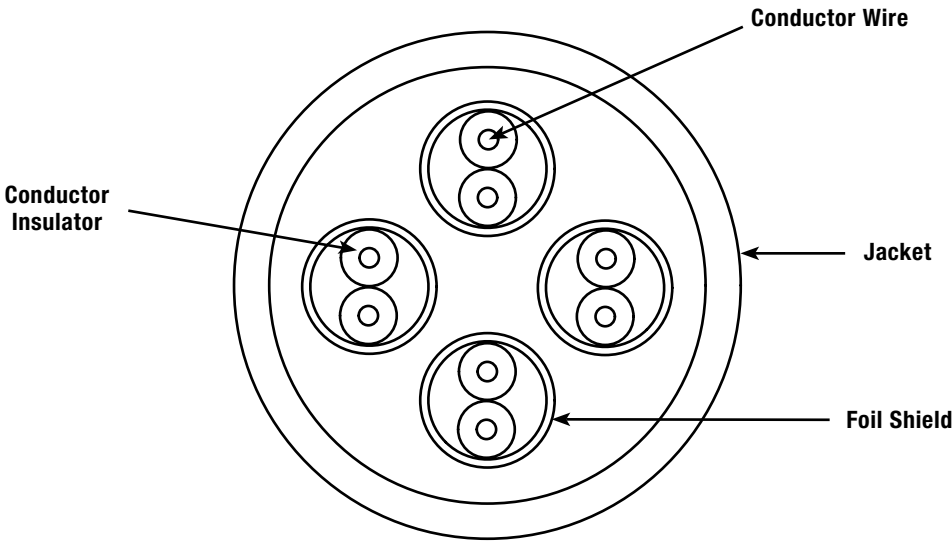
Key applications include:

- 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 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 100m
DC Resistance Unbalance	<5%
Mutual Capacitance	<5.6 nF per. 100m at 1 kHz
Capacitance Unbalance	<330 pF per 100m at 1 kHz
Capacitance Impedence	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	76% nominal
Operating Voltage, Maximum	80 V

ENGINEERING DRAWING



WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA Phone: 800.777.3300	PANDUIT EUROPE LTD. London, UK Phone: 44.20.8601.7200	PANDUIT SINGAPORE PTE. LTD. Republic of Singapore Phone: 65.6305.7575	PANDUIT JAPAN Tokyo, Japan Phone: 81.3.6863.6000	PANDUIT LATIN AMERICA Guadalajara, Mexico Phone: 52.33.3777.6000	PANDUIT AUSTRALIA PTY. LTD. Victoria, Australia Phone: 61.3.9794.9020
--	---	---	--	--	---

For a copy of Panduit product warranties, log on to www.panduit.com/warranty



For more information
Visit us at www.panduit.com
Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300

©2024 Panduit Corp.
ALL RIGHTS RESERVED.
COSP582-WW-ENG
2/2024