TX6A-SD™ 10Gig™ UTP Copper Cable with MaTriX Technology

specifications

Category 6A/Class E_A, cable shall be constructed of 26 AWG copper conductors with FEP Plenum (CMP), PVC Riser (CMR), HDPE Low Smoke Zero Halogen (LSZH), or PVC (CM) insulation. The copper conductors shall be twisted in pairs and separated by a cross-divider. All four pairs shall be surrounded by matrix tape and a flame retardant jacket. The patent pending matrix tape shall suppress the effect of alien crosstalk allowing 10 Gb/s transmission. The innovative cable design shall provide installation flexibility as cables can be routed in tight bundles through pathways and spaces.



technical information

Category 6A/Class E _A channel performance:	Exceeds electrical and alien crosstalk performance requirements of ANSI/TIA-568-C.2 Category 6A and ISO 11801 Class E _A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems in a 4-connector configuration up to 70 meters* *Note: The cable utilizes 26 AWG conductors which does not meet the 24 to 22 AWG conductor size of horizontal cable in ANSI/TIA-568-C.2.5.3, resulting in increased attenuation which de-rates the maximum channel distance to 70 meters (229 feet)	
Cable diameter:	0.240 in. (6.1mm) nominal	
Conductors/insulators:	26 AWG solid copper insulated with FEP (CMP), flame retardant PVC (CMR), HDPE (LSZH), or PVC (CM)	
Flame rating:	FEP Plenum (CMP): NFPA 262 PVC Riser (CMR): UL 1666 HDPE (LSZH): IEC 60332-1 PVC (CM): IEC 60332-1 and UL 1685	
PoE compliance:	Meets IEEE 802.3af and IEEE 802.3at for PoE applications	
Installation tension:	25 lbf (110 N) maximum	
Temperature rating:	32°F to 140°F (0°C to 60°C) during installation -4°F to 167°F (-20°C to 75°C) during operation	
Cable jacket:	FEP Plenum (CMP)/PVC (CM): Flame retardant PVC PVC Riser (CMR)/HDPE (LSZH): Low smoke flame retardant PVC HDPE (LSZH): PVC Free	
Cable weight:	FEP Plenum: 38 lbs./1000 ft. (17 kg/305m) PVC Riser (CMR)/HDPE (LSZH)/PVC (CM): 30 lbs./1000 ft. (14 kg/305m)	
Packaging:	1000 ft. (305m) on a reel FEP Plenum (CMP): 42 lbs./1000 ft. (19 kg)/305m) PVC Riser (CMR): 34 lbs./1000 ft. (15 kg)/305m) HDPE (LSZH)/PVC (CM): 46 lbs./1000 ft. (21 kg)/305m) Package tested to ISTA procedure 1A	

key features and benefits

Interoperable	Compatible with components of the TX6A™ 10Gig™ UTP Copper Cabling System with MaTriX Technology (100 meter solution) for increased design flexibility	
MaTriX Technology PATENT PENDING	Provides superior suppression of alien crosstalk (PSANEXT and PSAACRF); improves the installation flexibility by allowing cable combing in existing pathways without compromising performance	
Superior headroom warranty	Provides the highest margins above the industry standard for both electrical and alien crosstalk performance	
Smaller cable diameter than most Category 6 cable and round, flexible design	Allows efficient use of pathways and spaces by improving fill capacity and reducing required bend radius resulting in easier cable routing and management	
Extended temperature range	Allows operation in 75°C (167°F) ambient environment providing error-free performance in high density cabinets and large cable bundles for running PoE Plus applications	
Cross-divider	Separates pairs for exceptional cable performance	
Descending length cable markings	Easy identification of remaining cable to reduce installation time and cable scrap	

applications

The TX6A-SD™ 10Gig™ UTP Copper Cable with MaTriX Technology is a component of the TX6A™ 10Gig™ 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
- · Back-bone aggregation
- Parallel processing and high speed computing



TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology

TX6A-SD™ 10Gig™ UTP Copper Cable with MaTriX Technology

PUP6ASD04*-UG Plenum: Riser: PUR6ASD04*-CG LSZH: PUL6ASD04+-EG CM: PUC6ASD04+-EG

Mini-Com® TX6A™ 10Gig™ UTP Jack Modules with MaTriX Split Foil Technology

CJ6X88TG** Jack module: Shuttered

iack module: CJD6X88TG**

TX6A-SD™ 10Gig™ UTP Patch Cords with MaTriX Technology

CM (foot lengths): UTP6ASD^BU CM (meter lengths): UTP6ASD^MBU LSZH

(meter lengths): UTP6ASDL^MBU

Mini-Com[®] Angled Modular Patch Panels

24-port, 1 RU: CPPA24FMWBLY CPPA48FMWBLY 48-port, 2 RU: 72-port, 2 RU: CPPLA72WBLY

Mini-Com[®] Flat Modular Patch Panels

24-port, 1 RU: 48-port, 1 RU: 48-port, 2 RU: CPP24FMWBLY **CPP48HDWBLY** CPP48FMWBLY 72-port, 2 RU: CPP72FMWBLY

For additional modular patch panels reference www.panduit.com

Cable Prep Tools

Wire snipping tool: **CWST** Wire stripping tool: **CWST** Cable bundle organizing tool: CBOT24K

*To designate color, add suffix BU (Blue), WH (White), IG (International Gray) or YL (Yellow). For additional cable colors, contact customer service. 'Substitute PURFASDO4'-UG for alternative representative levels for the contractive levels.

'Substitute PUHGASDU4'-UG for alternative manufacturing location.

'To designate color, add suffix BU (Blue), or WH (White).

***To designate color, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), or OR (Orange), each color representing a different keyed configuration.

*For lengths 3 to 20 feet (increments of one foot) 20, 25, 30, 35 or 40 feet change the length designation in

^For lengths 3 to 20 feet (increments of one foot) 20, 25, 30, 35 or 40 feet change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet) to the end of the part number. For example, the part number for a blue, 15-foot patch cord is UTP6ASD15BU.

^For lengths 1, 2, 2.5, 3, 5 meters, change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (violet). LSZH patch cable available in Off White or BU (Blue). For example, the part number for a blue, 5-meter patch cord is UTP6ASD5MBU. Contact customer service for bulk packaged and/or

Contact customer service for bulk packaged and/or keyed jack modules and patch cords.

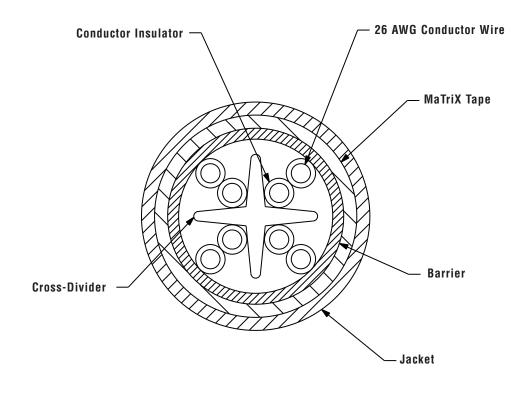
www.panduit.com

TX6A-SD™ 10Gig™ UTP Copper Cable with MaTriX Technology

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 67%

Cable Construction



WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA Markham, Ontario cs-cdn@panduit.com Phone: 800.777.3300

PANDUIT EUROPE LTD. London, UK cs-emea@panduit.com Phone: 44.20.8601.7200 PANDUIT SINGAPORE PTE. LTD. Republic of Singapore cs-ap@panduit.com Phone: 65.6305.7575 PANDUIT JAPAN Tokyo, Japan cs-japan@panduit.com Phone: 81.3.6863.6000 PANDUIT LATIN AMERICA Guadalajara, Mexico cs-la@panduit.com Phone: 52.33.3777.6000 PANDUIT AUSTRALIA PTY. LTD. Victoria, Australia cs-aus@panduit.com Phone: 61.3.9794.9020

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



Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300 and reference COSP198

© 2011 Panduit Corp. ALL RIGHTS RESERVED. Printed in the U.S.A. SA-COSP198 Replaces SA-COSP171 5/2011

