

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

PANDUIT® SPECIFICATION SHEET

specifications

Category 6A cable shall be constructed of 26 AWG copper conductors and with FEP (CMP), PE (CMR), PE (LSZH), or PVC (CM) insulation. The copper conductors shall be twisted in pairs and separated by a cross web. 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. This 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/EIA-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 26AWG conductors which does not meet the 24 to 22 AWG conductor size of horizontal cable in ANSI/TIA/EIA-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), PE (LSZH), or PVC (CM)
Flame rating:	Plenum: NFPA 262 Riser: UL 1666 PE (LSZH): IEC 60332-1 PVC (CM): IEC 60332-1 and UL 1685
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:	Plenum (CMP)/PVC (CM): Flame retardant PVC Riser (CMR)/PE (LSZH): Low smoke flame retardant PVC
Cable weight:	Plenum: 38 lbs./1000 ft. (17 kg/305m) Riser (CMR)/PE (LSZH)/PVC (CM): 30 lbs./1000 ft. (14 kg/305m)
Packaging:	1000 ft. (305m) on a reel Plenum (CMP): 42 lbs./1000 ft. (19 kg)/305m Riser (CMR): 34 lbs./1000 ft. (15 kg)/305m PE (LSZH)/PVC (CM): 46 lbs./1000 ft. (21 kg)/305m Package tested to ISTA procedure 1A

key features and benefits

Innovative MaTriX Technology	Provides superior suppression of alien crosstalk (PSANEXT and PSAACRF); Improves the installation flexibility by allowing cable combing in existing pathways without compromising 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
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 Panduit® 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

www.panduit.com

TX6A-SD™ 10Gig™ Copper Cabling System

TX6A™ 10Gig™ UTP Copper Cable

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

Mini-Com® TX6A™ 10Gig™ UTP Jack Module

Jack Module	CJ6X88TG**
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TX6A-SD™ 10Gig™ UTP Patch Cords

Foot lengths:	UTP6ASD3BU^
Meter lengths:	UTP6ASD1M^^

Mini-Com® Angled Flush Mount Modular Patch Panels

24-port:	CPPA24FMWBLY
48-port:	CPPA48FMWBLY

Mini-Com® Flat Flush Mount Modular Patch Panels

24-port:	CPP24FMWBLY
48-port:	CPP48FMWBLY
72-port:	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.

**To designate color, add suffix IW (Off White), EI (Electric Ivory), IG (International Gray), WH (White), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow), or VL (Violet) to end of the part number.

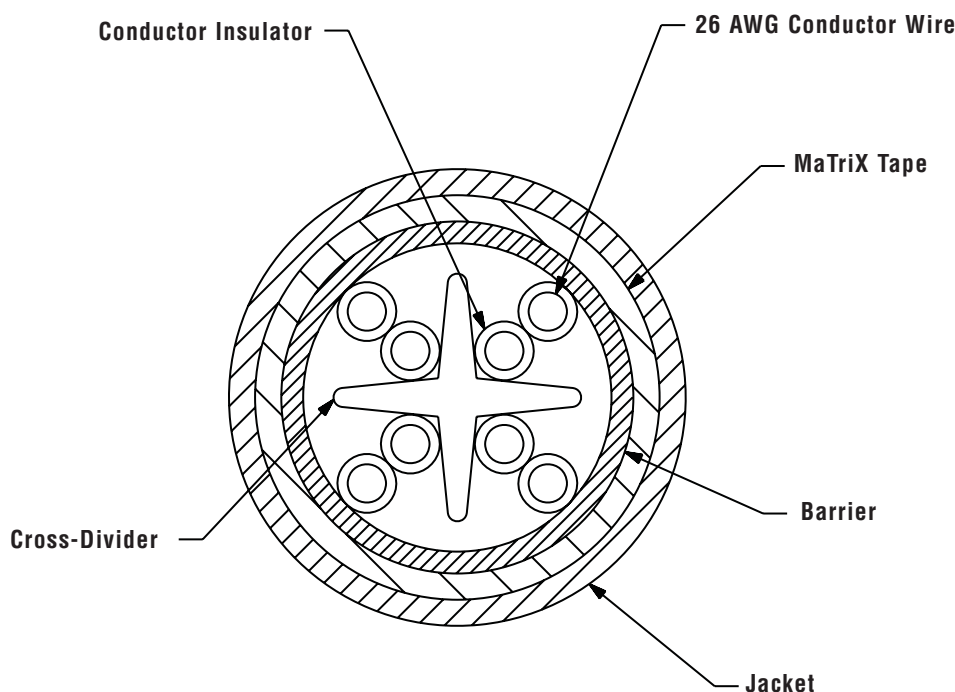
^ For lengths 3 to 20 feet (increments of one foot) 20, 25, 30, 35 or 40 feet change the length designation in the part number to the desired length. For standard cable colors other than Off White, add suffix BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) or VL (Violet) to the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

^^ For lengths 3 to 10 meters (increments of one meter) 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-meter patch cord is UTP6ASD15MBU.

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
Jalisco, 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

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800-777-3300 and reference COSP171

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