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

specifications

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with HDPE Low Smoke Zero Halogen (LSZH), FEP (CMP) or PE Riser (CMR). The copper conductors shall be twisted in pairs and separated by a cross-divider. All four pairs shall be surrounded by a metallic Vari-MaTriX tape cut into segments of varying length and a flame retardant jacket. The Vari-MaTriX tape shall minimize the cable diameter and suppress the effects of alien crosstalk while retaining UTP electromagnetic interference immunity. The innovative cable design shall provide installation flexibility as cables can be routed in tigh bundles through pathways and spaces.

Europe, Middle East, Africa, Latin America, **Asia Pacific**





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LSZH: PUL6AV04*-E+

Euroclass Eca

LSZH: PUY6AV04*-E+ Euroclass Cca-s1b-d1-a1

Plenum (CMP): PUP6AV04*-G Riser (CMR): PUR6AV04*-G

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

Jack module:

CJ6X88TG**

Shuttered jack

module: CIH6X88TG**

TX6A™ 10Gig UTP Patch Cords with MaTriX Technology

Meter lengths: UTP6A^^M Foot lengths: UTP6A^

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

For additional modular patch panels reference www.panduit.com

Cable Prep Tools

Wire snipping

tool:

Wire stripping tool:

CJAST

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.

- + G for 305m reels
- D for 500m reels

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

^Add length, then color to end of part number: 1M to 10M (one meter increments), 1.5M, 2.5M, 15M, and 20M. 3 to 20 feet (one foot increments), 25, 30, 35, and 40 ft. Color is off white unless color code is added to end: BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), VL (Violet). Example: Blue, 5-meter patch cord is UTP6A5MBU

Contact Customer Service for keyed connectivity bulk packaged jack modules and patch cords.

technical information

Category 6A/Class E _A channel and component performance:	Certified channel performance in a 4-connector configuration up to 100 meters and exceeds the requirements of ANSI/TIA-568-C.2 Category 6A and 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 Panduit "TX6A" 10Gig UTP Copper Cabling System. Certified component performance up to 100 meters and exceeds the ANSI/TIA-568-C.2 Category 6A and IEC 61156-5 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems	
Cable diameter:	LSZH Dca: 6.6mm (.260 in.) nominal LSZH Cca: 6.7mm (.265 in.) nominal Plenum (CMP): 6.4mm (.250 in.) nominal Riser (CMR): 6.6mm (.260 in.) nominal	
Conductors/insulators:	23 AWG solid copper insulated with flame retardant PE (CMR) or HDPE (LSZH)	
Flame rating:	LSZH (Eca): IEC 60332-1, 60754-2, 61034-2; EN 50575: Euroclass Eca LSZH (Cca): IEC 60332-1, 60754-2, 61034-2; EN 50575: Euroclass Cca-s1b-d1-a1 Plenum (CMP): NFPA 262 Riser (CMR): UL1666	
Standards compliance:	UL Listed CMP-LP (0.6A) and CMR-LP (0.5A)	
PoE compliant:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications	
Segregation classification:	Meets EN 50174-2:2009 segregation classification B for LSZH Dca Meets EN 50174-2:2009 segregation classification B for LSZH Cca	
Installation tension:	25 lbf (110 N) maximum	
Temperature rating:	0°C to 60°C (32°F to 140°F) during installation -20°C to 75°C (-4°F to 167°F) during operation (LSZH and CMR) -20°C to 90°C (-4°F to 194°F) during operation (CMP)	
Cable jacket:	HDPE (LSZH) FEP Plenum (CMP): Flame retardant PVC PE Riser (CMR) Low smoke flame retardant PVC	
Cable weight:	LSZH Dca: 13.1 kg/305m (28.9 lbs./1000 ft.); 21.5 kg/500m (47.4 lbs./1640 ft.) LSZH Cca: 16.5 kg/305m (36.4 lbs./1000 ft.); 25.1 kg/500m (55.4 lbs./1640 ft.) Plenum (CMP): 14.2 kg/305m (31.2 lbs. / 1000 ft.) Riser (CMR): 13.1 kg/305m (28.9 lbs. / 1000 ft.)	
Packaging:	LSZH Dca: 15.1kg/305m (33.3 lbs./1000 ft.); 22.5 kg/500m (51.8 lbs./1640 ft.) LSZH Cca: 16.5 kg/305m (36.4 lbs./1000 ft.); 25.1 kg/500m (55.4 lbs./1640 ft.) Plenum (CMP): 15.2 kg/305m (33.4 lbs. / 1000 ft.) Riser (CMR): 14.1 kg/305m (31.1 lbs. / 1000 ft.) Package tested to ISTA procedure 1A	

key features and benefits

Best-in-class cable diameter delivers superior PSANEXT and PSAACRF suppression while retaining UTP EMI immunity	
Compatible with components of the TX6A-SD® 10Gig UTP Copper Cabling System with MaTriX Technology (70 meter solution) for increased design flexibility	
Provides the highest worst-case margins above the industry standard for both electrical and alien crosstalk performance	
Improves fill capacity, cable management, reduces required bend radius and allows efficient use of pathways and spaces	
Allows operation in 75°C (167°F) to 90°C (194°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications	
All testing and headroom based on 48-port/1RU panels	
Easy identification of remaining cable to reduce installation time and cable scrap	

applications

The TX6A[™] 10Gig UTP Copper Cable with Vari-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

www.panduit.com

Key applications include:

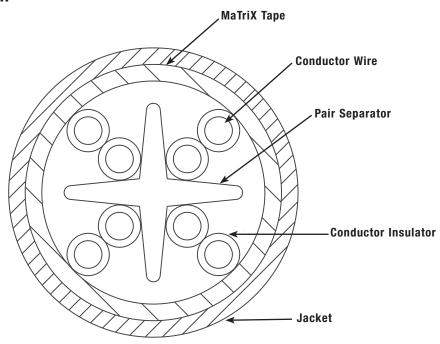
- 10GBASE-T Ethernet Data center I/O consolidation
- Data center server virtualization Consolidation of network interconnectsBack-bone aggregation
- · Parallel processing and high speed computing

TX6A™ 10Gig UTP Copper Cable with Vari-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%			
Operating Voltage, Maximum	80V			

cable construction



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