TX6A[™] 10Gig[™] UTP Copper Cable with Advanced MaTriX Technology

specifications

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with PE 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 advanced MaTriX tape and a flame retardant jacket. The advanced MaTriX tape shall suppress the effect of alien crosstalk allowing 10 Gb/s transmission, while minimizing cable diameter. 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 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:	PE Riser (CMR)/PVC (CM): 7.2mm (.285 in.) nominal HDPE (LSZH): 7.1mm (.280 in.) nominal		
Conductors/insulators:	23 AWG solid copper insulated with flame retardant PE (CMR) or HDPE (LSZH)		
Certification:	ANATEL 2511-12-6246		
Flame rating:	PE Riser (CMR): UL1666 HDPE (LSZH-1): IEC 60332-1, 60754-2, 61034-2; EN 50575: Euroclass Dca - s2- d2- a1 HDPE (LSZH-3): IEC 60332-3-25 (-3d), NBN C 30-004(F2), 60754-2, 61034-2; EN50399: Euro Class Dca-s2, d2,a1; PVC (CM): IEC 60332-1 and UL 1685; EN 50575: Euroclass Eca		
Standards Compliance:	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 C		
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		
Cable jacket:	PE Riser (CMR) Low smoke flame retardant PVC HDPE (LSZH) PVC (CM): Flame retardant PVC		
Cable weight:	PE Riser (CMR): 16.8 kg/305m (36.9 lbs. / 1000 ft.) LSZH-1: 15.3 kg/305m (33.8 lbs./1000 ft.); 25.1kg/500m (55.4 lbs./1640 ft.) LSZH-3: 16.5 kg/305m (36.4 lbs./1000 ft.); 27.4 kg/500m (60.6 lbs./1640 ft.) PVC (CM): 19.2 kg/305m (42.4 lbs./1000 ft.)		
Packaging:	PE Riser (CMR): 18.8 kg/305m (41.3lbs. / 1000ft.) LSZH-1: 17.3 kg/305m (38.2 lbs./1000 ft.); 27.4 kg/500m (60.5 lbs./1640 ft.) LSZH-3: 18.5 kg/305m (40.8 lbs./1000 ft.); 29.7 kg/500m (65.6 lbs./1640 ft.) Package tested to ISTA procedure 1A PVC (CM): 21.2 kg/305m (46.8 lbs./1000 ft.)		

key features and benefits

MaTriX Technology	Best-in-class cable diameter delivers superior PSANEXT and PSAACRF suppression
Interoperable	Compatible with components of the TX6A-SD [™] 10Gig [™] UTP Copper Cabling System with MaTriX Technology (70 meter solution) for increased design flexibility
Superior headroom warranty	Provides the highest margins above the industry standard for both electrical and alien crosstalk performance
Round cable design	Improves fill capacity, cable management, reduces required bend radius and allows efficient use of pathways and spaces
Extended temperature range	Allows operation in 75°C (167°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications
Highest density	All testing and headroom 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[™] 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
- · Consolidation of network interconnects
- Back-bone aggregation
- · Parallel processing and high speed computing

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



TX6A [™] 10Gig [™] UTP Copper Cabling System with Advanced MaTriX Technology				
Copper Cable TriX Technology				
PUR6AM04*-CG PUL6AM04*-CE+ PUZ6AM04*-CE+ PUC6AM04*-CEG				
0Gig [™]				
CJ6X88TG**				
CJH688TG**				
TX6A [™] 10Gig [™] UTP Patch Cords with MaTriX Technology				
UTP6A^^M UTP6A^				
Modular				
CPPA24FMWBLY CPPA48FMWBLY CPPLA72WBLY				
dular				
CPP24FMWBLY CPP48HDWBLY CPP48FMWBLY CPP72FMWBLY r patch panels it.com				
CWST CJAST				
CBOT24K				
*To designate color, add suffix BU (Blue), WH (White), IG (International Gray), or YL (Yellow). For additional cable colors,				
 contact customer service. + -CEG for 305m reels (18 reels/pallet), -CED for 500m reels (12 reels/pallet) **To designate color, add suffix IW (Off White), 				
white), BL (Black), BU (Blue), or VL (Violet) to				
to end of part e meter increments),				
20M. 3 to 20 feet (5, 30, 35, and 40 ft. (5, color code is added Blue), RD (Red),				
), OR (Orange),				

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

www.panduit.com

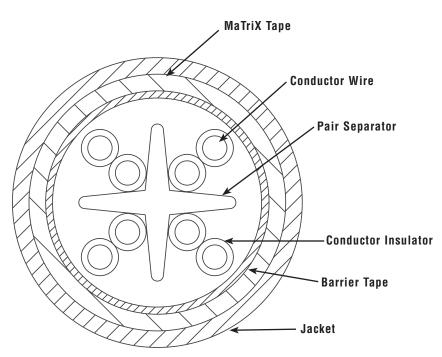


TX6A[™] 10Gig[™] UTP Copper Cable with Advanced MaTriX Technology

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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