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

Japan

PANDUIT™
SPECIFICATION SHEET

specifications

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with HDPE Low Smoke Zero Halogen (LSZH), or PVC (CM). 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 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 tight bundles through pathways and spaces.

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LSZH:	PUL6AV04*-EG EuroClass Dca-s2,d2,a1
CM:	PUC6AV04*-EG

*To designate color, add suffix BU (Blue), WH (White), IG (International Gray), or YL (Yellow).

For additional cable colors, contact customer service.

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-568.2-D 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-568.2-D Category 6A and IEC 61156-5 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems
Cable diameter:	6.6mm (0.260 in.) nominal
Conductors/insulators:	23 AWG solid copper insulated with flame retardant PE (CM) or HDPE (LSZH)
Flame rating:	LSZH (Dca): IEC 60332-3, 60754-2, 61034-2; EN 50575: EuroClass Dca-s2,d2,a1 PVC (CM): UL 1685
Standards compliance:	UL Listed CM-LP (0.5A)
PoE compliant:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
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)
Cable jacket:	HDPE (LSZH) PVC (CM): 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.) PVC (CM): 13.1 kg/305m (28.9 lbs./1000 ft.)
Packaging:	LSZH Dca: 15.1 kg/305m (33.3 lbs./1000 ft.); 22.5 kg/500m (51.8 lbs./1640 ft.) PVC (CM): 14.1 kg/305m (31.1 lbs./1000 ft.) Package tested to ISTA procedure 1A

key features and benefits

Vari-MaTriX Technology PATENTED	Best-in-Class cable diameter delivers superior PSANEXT and PSAACRF suppression while retaining UTP EMI immunity
Superior headroom warranty	Provides the highest worst-case margins above the industry standard for both electrical and alien crosstalk performance
Small, 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/1 RU 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 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 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

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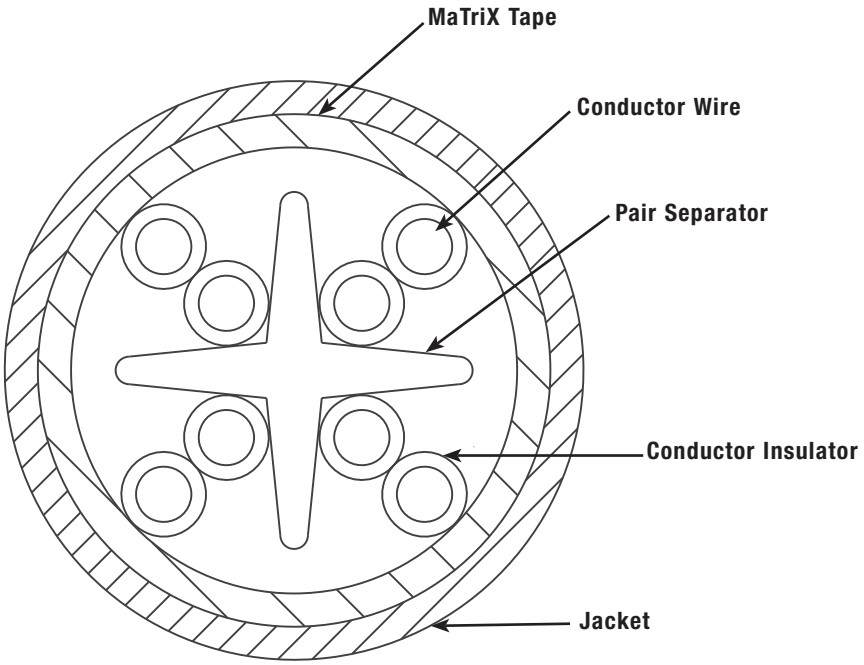
additional specifications

Mechanical Test	
Ultimate Breaking Strength	> 90 lbf (400 N)
Minimum Bend Radius	4 × 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)	65%
Operating Voltage, Maximum	80 V

cable construction



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