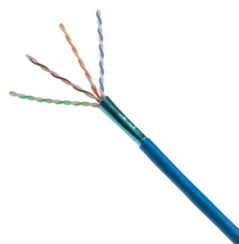


TX6A™ 10Gig UTP Copper Cable: Vari-MaTriX High Density (HD)

specifications

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with FEP Plenum (CMP) insulation. The copper conductors shall be twisted in pairs. 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 small cable diameter shall maximize cable density such that existing pathways can be utilized when upgrading from Category 6 cabling.



**TX6A™ 10Gig UTP
Copper Cabling System
with Vari-MaTriX HD Technology**

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

Plenum (CMP): PUP6AHD04*-G

*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™ 10 Gig 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
Standards compliance:	UL Listed CMP-LP (0.7A)
Cable diameter:	Plenum (CMP): 0.230 in. (5.8mm) nominal
Conductors/insulators:	23 AWG solid copper insulated with FEP (CMP)
Flame rating:	Plenum (CMP): NFPA 262
PoE/PoH compliant:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications UL PoH certified per UL4299
Installation tension:	25 lbf (110 N) maximum
Temperature rating:	32°F to 140°F (0°C to 60°C) during installation -4°F to 221°F (-20°C to 105°C) during operation
Cable jacket:	Plenum (CMP): Flame retardant PVC
Cable weight:	30.0 lbs./1000 ft. (13.6 kg/305m)
Packaging:	1000 ft. (305m) on a reel 34.0 lbs./1000 ft. (15.4 kg/305m) Package tested to ISTA procedure 1A

key features and benefits

Vari-MaTriX HD Technology 	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
High density 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 105°C (221°F) ambient environment providing error-free performance in high-density cabinets and large cable bundles running PoE+ or PoE++ applications
Highest port 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™ 10 Gig UTP Copper Cable with Vari-MaTriX HD Technology is a component of the TX6A™ 10 Gig 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:

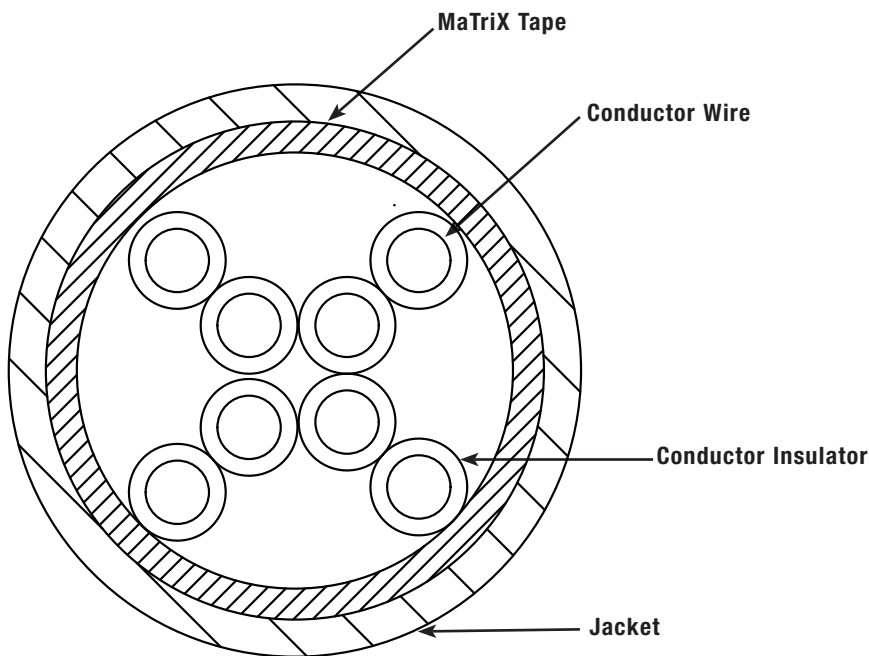
- 10GBASE-T Ethernet
- Data center I/O consolidation
- Data center server virtualization
- Consolidation of network interconnects
- Back-bone aggregation
- Parallel processing and high speed computing

TX6A™ 10Gig UTP Copper Cable: Vari-MaTriX High Density (HD)

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)	Plenum (CMP): 70%
Operating Voltage, Maximum	80V

cable construction



WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Guadalajara, Mexico
Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
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

PANDUIT®

© 2020 Panduit Corp.
ALL RIGHTS RESERVED.
COSP495--WW-ENG
REPLACES COSP416
8/2020