TX6A[™] UTP Copper Cable: Vari-MaTriX High Density (HD)

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



Dca-s2,d2,a LSZH: PUL6AHD04*-EG

* *Colors: BU (Blue), WH (White, or

For additional cable colors, contact

PUC6AHD04*-EG

PUR6AHD04*-G

TX6A UTP Copper Cable with <u>Vari-Ma</u>TriX HD Technology

CM:

Riser (CMR):

IG (International Gray)

customer service.

Euroclass

SPECIFICATIONS

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with Foam PE and HDPE (CM & CMR) or HDPE Low Smoke Zero Halogen (LSZH), insulation. The copper conductors shall be twisted in pairs and separated by a tape-style 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 small cable diameter shall maximize cable density such that existing pathways can be utilized when upgrading from Category 6 cabling.



TECHNICAL INFORMATION

Image: CCM/CMR) or HDPE (LSZH) Flame rating: Riser (CMR): UL1666 PVC (CM): UL1685 LSZH (Dca): IEC 60332-3-22, 60754-2, 61034-2; EN 50575: EuroClass Dca-s2,d2,a PoE compliant: PoE compliant: Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE app Installation tension: 25 lbf (110 N) maximum Temperature rating: LSZH: 0°C to 60°C (32°F to 140°F) during installation CM/CMR: 0°C to 50°C (32°F to 122°F) during installation LSZH/CM/CMR: -20°C to 75°C (-4°F to 167°F) during operation Cable jacket: HDPE (LSZH), PVC (CM/CMR) Cable weight: LSZH/CM/CMR: 12.8kg/305m (28.2 lbs./1000 ft.) Packaging: LSZH/CM/CMR: 14.3kg/305m (31.5 lbs./1000 ft.)		
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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 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:	ghest density: All testing and headroom based on 48-port/1 RU panels	
Descending lengthEasy identification of remaining cable to reduce installation time arcable markings:cable scrap		

APPLICATIONS

The TX6A UTP Copper Cable with Vari-MaTriX HD Technology is a component of the TX6A Copper Cabling System. Interoperable and backward compatible, this end-to-end system provides design flexibility to protect network investments well into the future. Continued to next page

APPLICATIONS (CONTINUED)

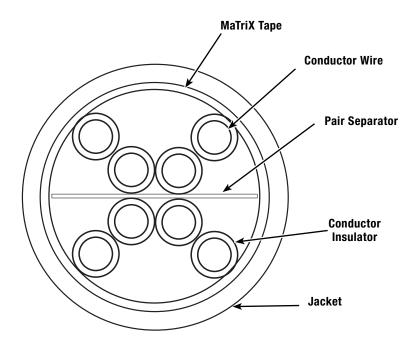
Key applications include:

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

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 100m (328 ft.)			
DC Resistance Unbalance	< 5%			
Mutual Capacitance	< 5.6 nF per 100m (328 ft.) at 1 kHz			
Capacitance Unbalance	< 160 pF per 100m (328 ft.) at 1 kHz			
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz			
Nominal Velocity of Propagation (NVP)	67% (LSZH) 65% (CM/CMR			
Operating Voltage, Maximum	80 V			

ENGINEERING DRAWING



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