

TX6A™ U/UTP Category 6A Copper Cable Standard Compliant Plus

SPECIFICATIONS

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with foamed PE and HDPE insulation. The copper conductors shall be twisted in pairs and separated by a tape divider. All four pairs shall be surrounded by an AXT barrier tape and a flame retardant jacket. The AXT barrier tape shall suppress the effects of alien crosstalk while retaining U/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

Category 6A/Class EA channel and component performance:	Certified channel performance in a 4-connector configuration up to 100m and exceeds the requirements of ANSI/TIA-568.2-E 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 TX6A U/UTP Copper Cabling System. Certified component performance up to 100m and exceeds the ANSI/ TIA-568.2-E Category 6A and IEC 61156-5 Category 6A standards for supporting 10GBASE-T transmission over twisted-pair cabling systems.
Cable diameter:	6.5mm (0.255 in.) nominal
Insulation diameter:	1.04mm - 1.30mm (0.041 in - 0.051 in)
Conductors/insulators:	23 AWG solid copper insulated with foamed PE and HDPE
Flame rating:	EN 50575: EuroClass Cca-s1b,d1,a1
PoE Compliant:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110 N (25 lbf.) maximum
Temperature rating:	0°C to 50°C (32°F to 122°F) during installation -20°C to 75°C (-4°F to 167°F) during operation
Cable jacket:	LSFRZH
Cable weight:	15kg/305m (33 lbs./1000 ft.) on a reel
Packaging:	305m (1000 ft.) on a reel Packaged tested to ISTA Procedure 1A

KEY FEATURES AND BENEFITS

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:	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

TX6A U/UTP Copper Cable

LSFRZH PUY6XHD04**-EG

**Colours: BU (Blue), WH (White), RD (Red), OR (Orange), YL (Yellow), GR (Green), VL (Violet), IG (International Gray), or BL (Black)

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APPLICATIONS

The TX6A U/UTP Copper Cable with Standard Compliant Plus 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. Key applications include:

- 10GBASE-T Ethernet
- Consolidation of network interconnects
- Data center I/O consolidation
- Back-bone aggregation
- Data center server virtualization
- 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):	66% nominal
Operating voltage, maximum:	80 V

ENGINEERING DRAWING

