

TX6A™ Category 6A U/UTP Indoor Plenum/ Outdoor Copper Cable

specifications

Category 6A/Class E_A cable shall be constructed of 23 AWG copper conductors with fluoropolymer insulation. The copper conductors shall be twisted in pairs and separated by a cross-divider. All four pairs shall be surrounded by a non-conductive core wrap and a flame retardant fluoropolymer jacket. The polyester encapsulated isolation core wrap shall suppress the effects of alien crosstalk. This product is intended for installation in below-grade conduit, duct, and other wet environments. Cable jacket must remain unabraded to avoid water ingress. Water must not be allowed to ingress into the cable ends.



technical information

Electrical performance:	Certified component and channel performance in a 4-connector configuration up to 100 meters and meets/exceeds the requirements of ISO 11801 Class E _A and ANSI/TIA-568.2-D Category 6A standards for swept frequencies up to 500 MHz
Cable diameter:	0.260 (6.6mm) nominal
Standards compliance:	UL Listed CMP-LP (0.8A) equivalent to 160 watts using 50 volts over 4 pairs. Wet Location rated per UL 83. UL Listed SUN RES (720 hour) rated to be installed permanently outdoors in direct sunlight. ICEA S-116-732.
Conductors/insulators:	23 AWG solid copper insulated with fluoropolymer
Insulation diameter:	0.042- 0.046 in. (1.06- 1.17mm)
Flame rating:	Plenum – NFPA 262 and CSA FT-6
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	25 lbf (110N) maximum
Temperature rating:	32°F to 140°F (0°C to 60°C) during installation -4°F to 257°F (-20°C to 125°C) during operation
Cable jacket:	Fluoropolymer
Cable weight:	33 lbs./1000 ft. (15kg/305m)
Packaging:	1000 ft. (305m) on a reel Packaged tested to ISTA Procedure 1A

key features and benefits

Fluoropolymer jacket with core wrap	Ensures electrical performance during long term water submersion
Dry core construction	No gel filler allowing for cleaner terminations
Headroom warranty	Provides margin above the industry standard for both electrical and alien crosstalk performance
Small diameter	Improves fill capacity, cable management, reduces required bend radius and allows efficient use of pathways and spaces
Extended temperature range	Allows operation in 125°C (257°F) ambient environment providing error-free performance in high-density applications and large cable bundles running PoE+ or PoE++ applications
Descending length cable markings	Easy identification of remaining cable to reduce installation time and cable scrap

applications

Intended for installation in below-grade conduit, duct, and other wet environments. Cable jacket must remain unabraded to avoid water ingress. Water must not be allowed to ingress into the cable ends. Use protective vinyl caps (MOCAP® or similar) for cable ends during installation if necessary. Not suitable for direct burial applications.

Category 6A U/UTP Copper Cable is a component of the TX6A™ U/UTP Copper Cabling System when installed according to the above length considerations. Interoperable and backwards compatible, this end-to-end system provides design flexibility to protect network investments well into the future.

With certified performance to the ISO 11801 Class EA and ANSI/TIA-568.2-D Category 6A standards. Usage of the TX6A™ U/UTP Copper Cabling System includes:

- Ethernet 10GBASE-T and 1000BASE-T

TX6A™ UTP Copper Cabling System

Category 6A U/UTP Copper Cable

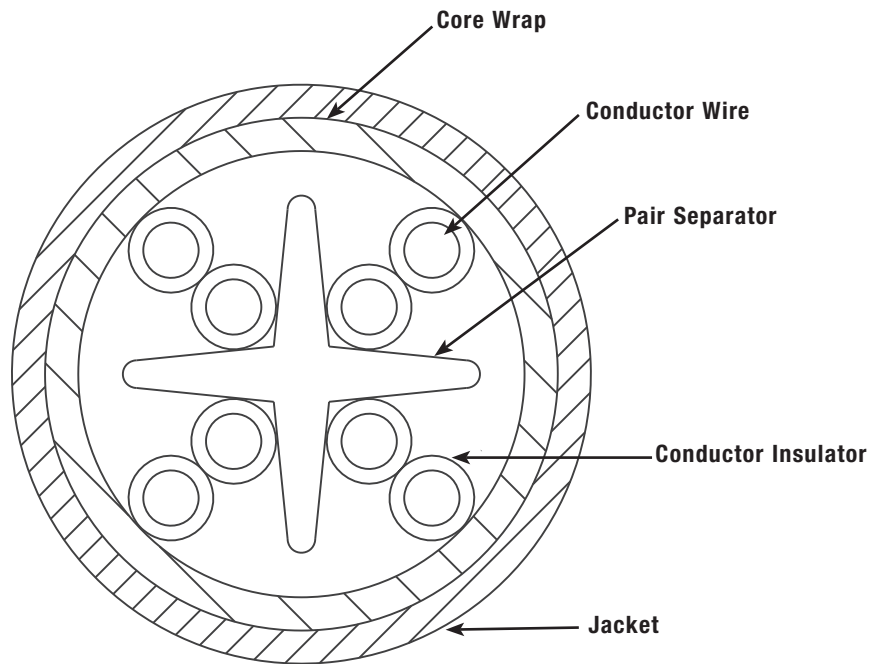
Indoor plenum/outdoor: PUO6AS04**-G

**To designate a color, add suffix BL (Black), WH (White).

TX6A™ Category 6A U/UTP Indoor Plenum/Outdoor Copper Cable

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	8 x 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	<330 pF per 100m (328 ft.) at 1 kHz
Characteristic Impedance	100 Ohm +/-15% up to 100 MHz
Nominal Velocity of Propagation (NVP)	70% nominal

cable construction



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