Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Category 6A UTP Copper Cable

specifications

Category 6A/Class EA cable shall be constructed of 23 AWG copper conductors with FEP Plenum (CMP) 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 foil tape and a flame retardant jacket. The foil tape shall suppress the effects of alien crosstalk.

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-C.2 Category 6A standards for swept frequencies up to 500 MHz
Cable diameter:	FEP Plenum (CMP): 0.250 in. (6.4mm) nominal
Standards compliance:	UL Listed CMP-LP (0.6A) or better
Conductors/insulators:	23 AWG solid copper insulated with FEP (CMP), flame retardant PE
Flame rating:	FEP plenum (CMP): NFPA 262
PoE compliance:	Meets IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt for PoE applications
Installation tension:	110 N (25 lbf) maximum
Temperature rating:	32°F to 140°F (0°C to 60°C) during installation -4°F to 194°F (-20°C to 90°C) during operation
Cable jacket:	FEP plenum (CMP): flame retardant PVC
Cable weight:	31.2 lbs./1000 ft. (14.2 kg/305m)
Packaging:	33.4 lbs./1000 ft. (15.2 kg/305m) Packaged tested to ISTA Procedure 1A

key features and benefits

Interoperable	Compatible with components of the TX6A-SD™ 10Gig™ UTP Copper Cabling System with MaTriX Technology (70 meter solution) for increased design flexibility
Headroom warranty	Provides margin above the industry standard for both electrical and alien crosstalk performance
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 90°C (194°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/1RU panels
Descending length cable markings	Easy identification of remaining cable to reduce installation time and cable scrap

applications

Category 6A UTP Copper Cable is a component of the TX6A™ 10Gig™ 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 E_A and ANSI/TIA-568-C.2 Category 6A standards. Usage of the TX6A™ 10Gig™ UTP Copper Cabling System includes:
• Ethernet 10GBASE-T

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TX6A™ 10Gig™ UTP Copper Cabling System

Category 6A UTP Copper Cable	
Plenum:	PUP6AS04*-G

TX6A™ 10Gig™ UTP Jack Module	
Jack module:	CJ6X88TG**
Shuttered jack module:	CJH6X88TG**
Right angle jack module:	CJR6X88TG**

TX6A™ 10Gig™ UTP Patch Cords	
CM (meter lengths):	UTP6A^M
CM (foot lengths):	UTP6A^^

TX6A-SD™ 10Gig™ UTP Patch Cords	
CM (foot lengths):	UTP6ASD^BU
CM (meter lengths):	UTP6ASD^^MBU

Mini-Com® Angled Modular Patch Panels	
24-port, 1 RU:	CPPA24FMWBLY
48-port, 2 RU:	CPPA48FMWBLY
72-port, 2 RU:	CPPLA72WBLY

Mini-Com® Flat Modular Patch Panels	
24-port, 1 RU:	CPP24FMWBLY
48-port, 1 RU:	CPP48HDWBLY
48-port, 2 RU:	CPP48FMWBLY
72-port, 2 RU:	CP72FMWBLY

Cable Prep Tools	
Wire snipping tool:	CWST
Wire stripping tool:	CJAST

*To designate color, add suffix BU (Blue) or WH (White). For additional cable colors, contact customer service.

**To designate color, add suffix IW (Off White), EI (Electric Ivory), IG (International Gray), WH (White), AW (Arctic White), BL (Black), BL (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange), or VL (Violet).
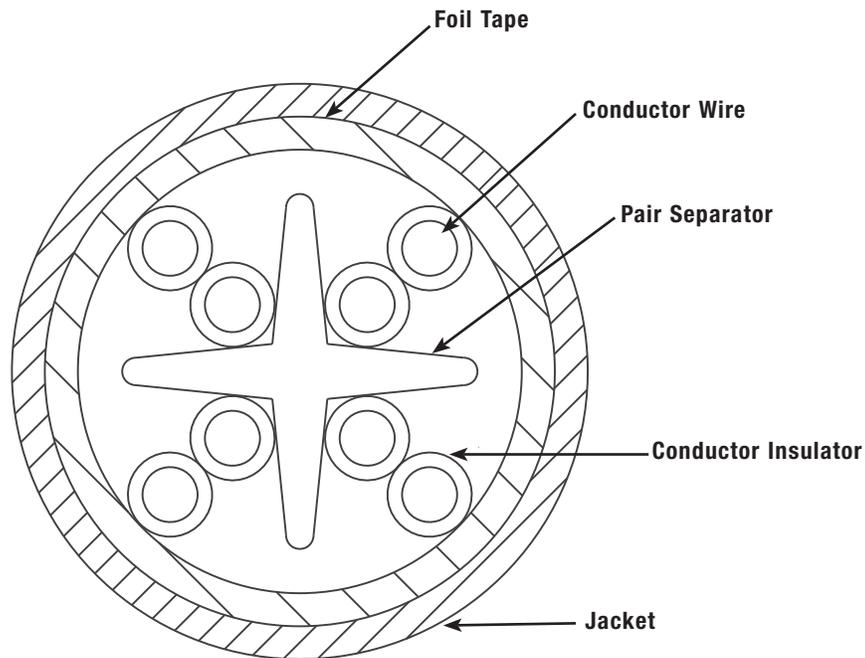
^For lengths 3 to 20 feet (increments of one foot) and 25, 30, 35, 40 feet, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a Blue, 15-foot patch cord is UTP6A15BU.

^^For lengths 1 to 10 meters (increments of one meter) and 1.5, 2.5, 15, 20 meters, change the length designation in the part number to desired length. For standard cable colors other than IG (International Gray) substitute IG suffix with BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet) to the end of the part number. For example, the part number for a Blue, 15-meter patch cord is UTP6A15MBU.

Category 6A UTP Copper Cable

Mechanical Test	
Ultimate Breaking Strength	>400 N (90 lbf)
Minimum Bend Radius	4 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)	67%

cable construction

Foil Tape

Conductor Wire

Pair Separator

Conductor Insulator

Jacket

PANDUIT®