

# Mini-Com® TX6A™ 10Gig™ UTP 28/30 AWG Jack Modules

## SPECIFICATIONS

Category 6A/Class E<sub>A</sub>, 8-position, UTP jack module shall terminate 4-pair, 28 AWG solid/stranded to 30 AWG solid, 100 ohm unshielded twisted pair cable and shall not require a punchdown tool. UTP jack modules shall use a forward motion termination method to optimize performance by maintaining cable pair geometry while eliminating conductor untwist. The termination cap shall be color-coded Aqua to designate Category 6A performance and shall include a universal label coded for T568A and T568B wiring schemes.



## TECHNICAL INFORMATION

<b>Category 6A/Class E<sub>A</sub> channel and component performance:</b>	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 <sub>A</sub> standards swept up to 650 MHz for supporting 10GBASE-T transmission over twisted-pair cabling systems as part of the TX6A 10Gig UTP Copper Cabling System  Exceeds component requirements of ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E <sub>A</sub> standards for supporting 10GBASE-T transmission over twisted-pair cabling systems
<b>FCC and ANSI compliance:</b>	Meets ANSI/TIA-1096-A; contacts plated with 50 microinches of gold for superior performance
<b>IEC compliance:</b>	Meets IEC 60603-7 and IEC 60512-99-002
<b>PoE &amp; PoH compliance:</b>	Meets IEEE 802.3af / 802.3at and 802.3bt type 3 and type 4. Supports Power over HDBaseT up to 100 watts.
<b>c(UL)US listed:</b>	UL 1863 (Use as communications circuit accessory); CSA standard C22.2 UL 2043 (Suitable for use in air-handling spaces)
<b>Conductor termination range:</b>	Wire cap compatible with 28 AWG solid/stranded to 30 AWG solid cable with conductor insulation diameters of 0.025 in. (0.635mm) max. and overall cable O.D. 0.120 in. to 0.185 in. (3.04mm to 4.69mm)
<b>Operating temperature:</b>	14°F to 167°F (-10°C to 75°C)

## KEY FEATURES AND BENEFITS

<b>100% Performance tested:</b>	Confidence that each jack module will deliver the critical electrical performance requirements
<b>Utilizes enhanced Giga-TX™ Technology:</b>	Optimizes performance by eliminating conductor untwist and reduces installation time and expense
<b>Modular:</b>	UTP jack modules snap in and out of all Mini-Com Faceplates, Modular Patch Panels and Surface Mount Boxes for easy moves, adds, and changes
<b>Individually serialized:</b>	Marked with quality control number for future traceability
<b>RJ45 interface:</b>	Industry standard interface provides a quick and easy plug and play connection to RJ45 patch cords; backwards compatible
<b>Identification:</b>	Can be clearly identified with optional labels and icons for port identification

## APPLICATIONS

Mini-Com TX6A 10Gig UTP Jack Modules are a component of the TX6A 10Gig UTP Copper Cabling System with MaTriX Technology. This end-to-end system provides a cost effective medium for ensuring that network bandwidth needs are easily met today and in the future. This solution helps ensure organizations efficiently and reliably meet their data transmission needs. With certified performance to the ISO 11801 Class EA IEEE 802.3an-2006 and ANSI/TIA-568.2-D Category 6A standards, this system will support high bandwidth applications with data centers and connections to high end workstations such as stacking switches and switch-to-switch links, storage area networks, aggregation of Gigabit Ethernet channels, real-time intensive financial transactions, streaming video, animation, scientific modeling, and medical imaging.

### Mini-Com TX6 PLUS UTP Jack Modules

**Jack module:** CJT6X88TG<sup>^</sup>

### TX6 PLUS 28 AWG Patch Cords

**Feet:** UTP28X<sup>^^</sup>

**Meters:** UTP28X<sup>\*\*M</sup>

### Mini-Com Angled Modular Patch Panels

**24-port, 1 RU:** CPPLA24WBLY

**48-port, 2 RU:** CPPLA48WBLY

### Mini-Com Flat Modular Patch Panels

**24-port, 1 RU:** CPPL24WBLY

**48-port, 2 RU:** CPPL48WBLY

### Tools and Accessories

**Jack module termination tool:** EGJT-1 or TGJT

**Wire snipping tool:** CWST

**Wire stripping tool:** CJUST

**Clear dust cap:** MDC-C

**Block out device:** PSL-DCJB<sup>^^^+</sup>

**Phone icons:** CIPIW-C

**Data icons:** CID<sup>++</sup>-C

<sup>\*</sup>Foot lengths: 1 - 20 feet (every 1 foot),

<sup>\*\*</sup>Meter lengths: 0.5 - 6 meters (every 0.5 meters)

<sup>^</sup>Colors: IW (Off White), EI (Electric Ivory), IG (International Gray), AW (Arctic White), BL (Black), BU (Blue), RD (Red), YL (Yellow), GR (Green), WH (White), OR (Orange), or VL (Violet)

<sup>^^</sup>Colors other than Off White: BL (Black), BU (Blue), GR (Green), RD (Red), YL (Yellow), OR (Orange), or VL (Violet)

<sup>^^^</sup>Colors other than Red: -BL (Black), -BU (Blue), -YL (Yellow), -GR (Green), -OR (Orange), -IW (Off White), -IG (International Gray)

<sup>+</sup>Add -C to indicate bulk package with 100 pieces per pack to reduce single-use plastic

<sup>++</sup>Colors: WH (White), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange)



All listed part numbers are compliant with the U.S. Trade Agreements Act (TAA) for purchases shipped to customers in the United States.

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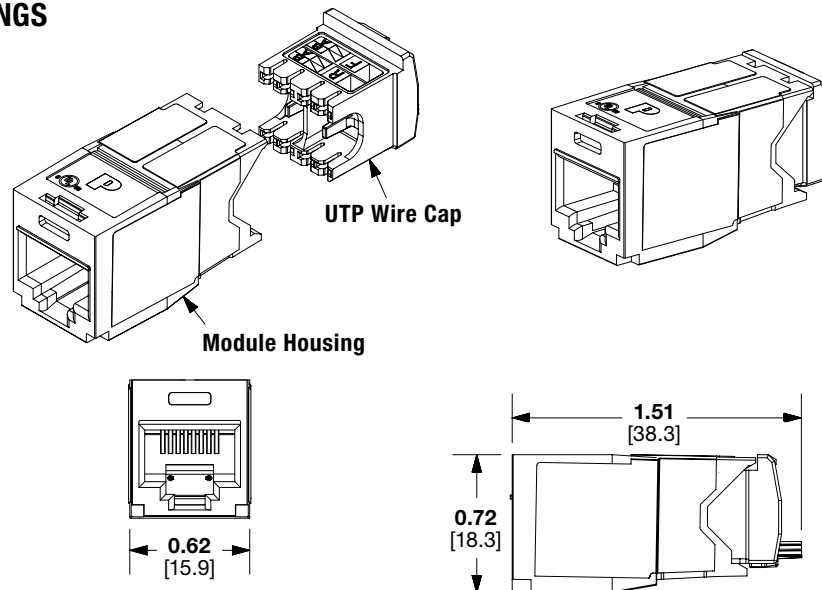
## TEST RESULTS

Mechanical Test	Test Method	Measurement	Test Results
Normal Force	ANSI/TIA-1096-A	Load (grams)	>100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	<40
Shock	IEC 512-6c	Contact Disturbance (microseconds)	<5
Durability	IEC 512-9a	Circuit Resistance (mOhms)	<40
Mating/Un-Mating	IEC 512-13b	Mating Force (N)	<20
		Un-mating Force (N)	
Termination Cycles	IEC 352	Number of Cycles	>20
Mating Cycles	IEC 60603-7	Number of Plug Insertions	>2500

Electrical Test	Test Method	Measurement	Test Results
Low Level Circuit Resistance	IEC 512-2a	Resistance (mOhms)	<20
Dielectric Withstand Voltage	IEC 512-4a	1000 VAC, 1 minute	Passed
Insulation Resistance	IEC 512-3a	Resistance (MOhms)	>500

Environmental Test	Test Method	Measurement	Test Results
Temperature Life	IEC 512-9b	Circuit Resistance (mOhms)	<40
Humidity	IEC 512-11c		
Thermal Shock	IEC 512-11d		
Climatic Sequence	IEC 512-11a		
Flowing Mixed Gas Corrosion	IEC 512-11g		

## ENGINEERING DRAWINGS



Dimensions are in inches. [Dimensions in brackets are metric].

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