

# Mini-Com® TX6A™ 10Gig™ UTP Coupler Module and Patch Panel

## specifications

Category 6A/Class E<sub>A</sub>, 8-position, female-to-female, UTP coupler module shall provide easy plug-and-play pass through connectivity. Coupler module shall act as one connecting hardware component in the channel. Coupler modules shall be available individually or installed in a 24-port flat patch panel. Couplers shall be compatible with 6 or 8-position RJ45 UTP patch cords with T568A and T568B wiring schemes.



## technical information

<b>Category 6A/Class E<sub>A</sub> channel performance:</b>	Exceeds channel requirements of ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E <sub>A</sub> standards at swept frequencies 1 to 500 MHz One coupler can be used per channel while maintaining Category 6A/Class E <sub>A</sub> performance
<b>FCC and ANSI/TIA 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 and 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>RoHS compliance:</b>	Compliant
<b>c(UL)us Listed:</b>	UL 1863 (Use as communications circuit accessory), CSA standard C22.2
<b>Operating temperature:</b>	-10° C to 75° C (14° F to 167° F)

## key features and benefits

<b>100% performance tested</b>	Confidence that each coupler will deliver the critical electrical performance requirements
<b>Modular</b>	Couplers snap in and out of all Mini-Com Faceplates, Modular Patch Panels and Industrial Bulkheads for easy moves, adds and changes
<b>RJ45 interface</b>	Industry standard interface provides a quick and easy plug and play connection to RJ45 patch cords; backwards compatible
<b>Alien crosstalk suppression</b>	Innovative MaTriX split foil technology provides superior alien crosstalk performance enabling high density applications
<b>Identification</b>	Can be clearly identified with optional labels and icons for port identification
<b>Populated patch panel version</b>	Factory installed 24-port patch panel mounts to standard EIA 19" or 23" racks for greater system flexibility
<b>Block out device (optional)</b>	Provides a simple and secure method to control access to data ports while not in use

## applications

Mini-Com TX6A 10Gig UTP Coupler Modules and Patch Panels are a component of the TX6A 10Gig UTP Copper Cabling System. This end-to-end system is interoperable and backwards compatible for design flexibility to protect network investments into the future. Couplers are designed to perform as a single connector in the channel. One coupler can be used per channel while maintaining Category 6A/Class E<sub>A</sub> performance. Couplers are a reliable, modular solution and ideal for setting up networks in a testing environment or during a planned system upgrade.

With certified performance to the ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E<sub>A</sub> standards, this system will support the following applications:

- Ethernet 10BASE-T, 100BASE-T (FastEthernet), 1000BASE-T (Gigabit Ethernet)
- Digital video and broadband/baseband analog video
- Voice over Internet Protocol (VoIP)

### Mini-Com TX6A UTP Copper Modules

**Coupler Module:** CC6X88‡

### Mini-Com TX6A 10Gig UTP Coupler Patch Panel

**24-port, 1 RU:** CP246X88BL

### Accessories

**Clear dust cap:** MDC-C

**Blockout device:** PSL-DCJB-^^^

**Phone icons:** CIPIW-C

**Data icons:** CIDWH-C++

‡ For additional colors, add suffix: BL (Black), IW (Off White), BU (Blue), RD (Red), GR (Green), OR (Orange), IG (International Gray), or YL (Yellow).

^^^To designate color other than Red, add suffix BL (Black), BU (Blue), YL (Yellow), GR (Green), OR (Orange), IW (Off White) or IG (International Gray) at the end of the part number. 10/package.

++To designate color other than WH (White), replace WH with BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange) in the part number. 100/package.

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## test results

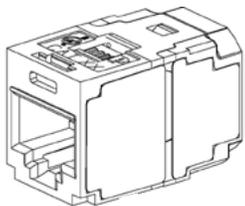
Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	ANSI/TIA-1096-A	Load (grams)	> 100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	< 40
Shock	IEC 512-6c	Contact Disturbance (microsecond)	< 5
Durability	IEC 512-9a	Circuit Resistance (mOhms)	<40
Mating/Un-mating	IEC 512-13b	Mating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

Electrical Test	Test Method	Measurement	Typical 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

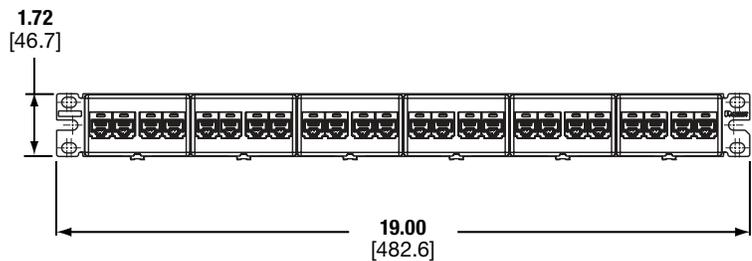
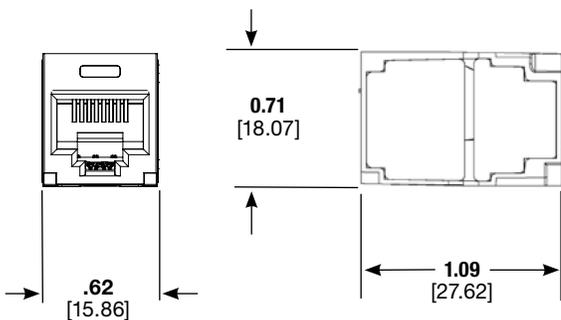
Environmental Test	Test Method	Measurement	Typical Test Results
Temperature Life	IEC 512-9b	Circuit Resistance (mOhms)	< 40
Humidity	IEC 512-11c	Circuit Resistance (mOhms)	< 40
Thermal Shock	IEC 512-11d	Circuit Resistance (mOhms)	< 40
Climatic Sequence	IEC 512-11a	Circuit Resistance (mOhms)	< 40
Flowing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

## Mini-Com TX6A 10Gig UTP Coupler Module

## 24-Port Category 6A Coupler Patch Panel



Compatible with Mini-Com Faceplates and Modular Patch Panels



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

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