

# Mini-Com® TX6A™ Shielded Coupler Module

## SPECIFICATIONS

Category 6A/Class E<sub>A</sub>, 8-position, female to female, shielded coupler module shall provide easy plug and play pass through connectivity. Coupler modules shall act as one connecting hardware component in the channel. Coupler modules shall be available individually. Couplers shall be compatible with 6 or 8-position RJ45 shielded 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 compliance:</b>	Complies with ANSI/TIA-1096-A (formerly FCC Part 68); contacts plated with 50 microinches of gold
<b>IEC compliance:</b>	Meets IEC 60603-7
<b>PoE and PoH compliance:</b>	Rated for 2500 cycles with 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>	14°F to 167°F (-10°C to 75°C)

## 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, All Metal 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>Identification:</b>	Can be clearly identified with optional icons for port identification
<b>Blockout device (optional):</b>	Provides a simple and secure method to control access to data ports while not in use

## APPLICATIONS

The Mini-Com TX6A Shielded Coupler Module is a component of the TX6A Shielded Copper Cabling System. Couplers are designed to perform as one connector in the channel, allowing up to one coupler in each channel to be used while maintaining channel performance. 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 Ethernet speeds:

- Ethernet 10BASE-T, 100BASE-T (Fast Ethernet), 1000BASE-T (Gigabit Ethernet) and 10GBASE-T (10 Gigabit Ethernet)

Couplers are a reliable, modular solution, ideal when setting up temporary networks for testing, during a planned system upgrade, or for quick cabinet connection in "rack and roll" applications.

### Mini-Com TX6A Shielded Coupler Module

**Coupler Module:** CCS6X88BL

#### Accessories

**Clear dust cap:** MDC-C

**Blockout device:** PSL-DCJB<sup>^</sup>

**Phone icons:** CIP\*-C

**Data icons:** CID\*\* -C

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

\*Colors: IW (Off White), BU (Blue), RD (Red), GR (Green), OR (Orange)

\*\*Colors: WH (White), BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange)

-C indicates bulk packs of 100 pieces per package to reduce single-use plastic

Note: Mini-Com® Coupler Modules are not compatible with Surface Mount Boxes.

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## TEST RESULTS

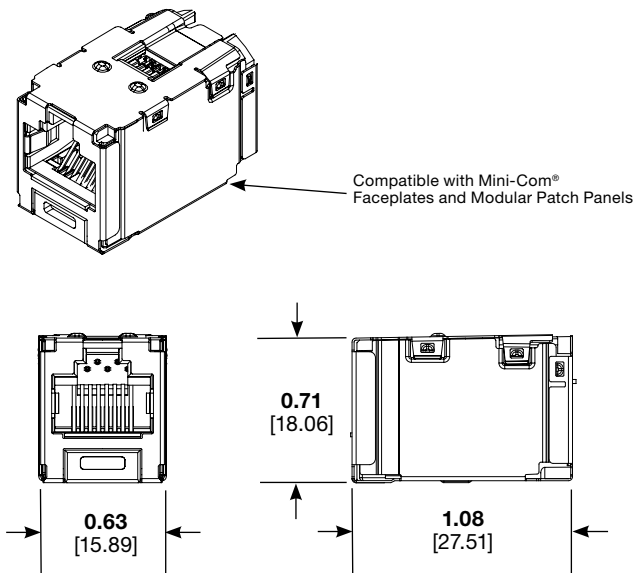
Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	–	Load (grams)	>100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	<40
Shock	IEC 512-6c	Contact Disturbance (microseconds)	<5
Durability	IEC 512-9a	Circuit Resistance (mOhms)	<40
Mating/Un-Mating	IEC 512-13b	Mating Force (N)	<20
		Un-Mating Force (N)	
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 V, 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		
Thermal Shock	IEC 512-11d		
Climatic Sequence	IEC 512-11a		
Flowing Mixed Gas Corrosion	IEC 512-11g		

## ENGINEERING DRAWINGS

Mini-Com® Category 6A Shielded Coupler Module



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

### WORLDWIDE SUBSIDIARIES AND SALES OFFICES

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