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

PANDUIT®
SPECIFICATION SHEET

SPECIFICATIONS

Category 6A/Class E_A, 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.



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:	CID++-C

*Colors: BL (Black), IW (Off White), BU (Blue), RD (Red), GR (Green), OR (Orange), IG (International Gray), or YL (Yellow)

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

++To designate color other than WH (White), replace WH with BU (Blue), RD (Red), YL (Yellow), GR (Green), OR (Orange)

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

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

TECHNICAL INFORMATION

Category 6A/Class E_A channel performance:	Exceeds channel requirements of ANSI/TIA-568.2-D Category 6A and ISO 11801 Class E_A standards at swept frequencies 1 to 500 MHz One coupler can be used per channel while maintaining Category 6A/ Class E_A performance
FCC and ANSI/TIA compliance:	Meets ANSI/TIA-1096-A; contacts plated with 50 microinches of gold for superior performance
IEC compliance:	Meets IEC 60603-7 and IEC 60512-99-002
PoE and PoH compliance:	Meets IEEE 802.3af / 802.3at and 802.3bt type 3 and type 4. Supports Power over HDBaseT up to 100 watts
RoHS compliance:	Compliant
c(UL)us Listed:	UL 1863 (Use as communications circuit accessory), CSA standard C22.2
Operating temperature:	14° F to 167° F (-10° C to 75° C)

KEY FEATURES AND BENEFITS

100% Performance tested:	Confidence that each coupler will deliver the critical electrical performance requirements
Modular:	Couplers snap in and out of all Mini-Com Faceplates, Modular Patch Panels and Industrial Bulkheads for easy moves, adds and changes
RJ45 interface:	Industry standard interface provides a quick and easy plug and play connection to RJ45 patch cords; backwards compatible
Alien crosstalk suppression:	Innovative MaTriX split foil technology provides superior alien crosstalk performance enabling high density applications
Identification:	Can be clearly identified with optional labels and icons for port identification
Populated patch panel version:	Factory installed 24-port patch panel mounts to standard EIA 19" or 23" racks for greater system flexibility

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_A 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_A 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)

TAA Compliant

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

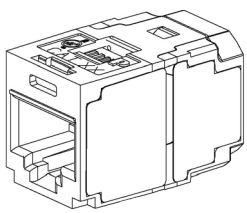
Mechanical Test	Test Method	Measurement	Typical Test Results
Normal Force	ANSI/TIA-1096-A	Load (grams)	> 100
Vibration	IEC 512-6d	Circuit Resistance (mOhms)	< 40
Shock	IEC 512-6c	Contact Disturbance (microsecond)	< 5
Durability	IEC 512-9a	Circuit Resistance (mOhms)	<40
Mating/Un-mating	IEC 512-13b	Mating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

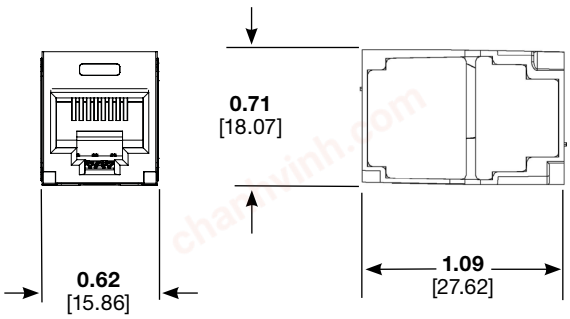
Electrical Test	Test Method	Measurement	Typical Test Results
Low Level Circuit Resistance	IEC 512-2a	Resistance (mOhms)	< 20
Dielectric Withstand Voltage	IEC 512-4a	1000 VAC, 1 minute	Passed
Insulation Resistance	IEC 512-3a	Resistance (MOhms)	> 500

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

ENGINEERING DRAWINGS

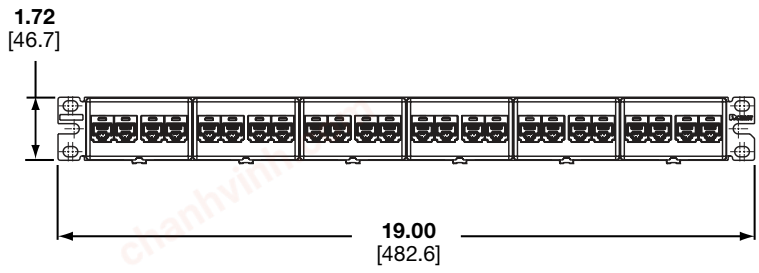
Mini-Com TX6A 10Gig UTP Coupler Module





24-Port Category 6A Coupler Patch Panel





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

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